SIX DAYS THREE CONFERENCES FOUR FORUMS ONE EXHIBITION

EUROPEAN MICROWAVE WEEK

EXCEL, LONDON

4th-9th OCTOBER 2026

www.eumw.eu

29TH EDITION OF THE EUMW

CONFERENCE PROGRAMME

EUROPE'S PREMIER MICROWAVE, RF, WIRELESS AND RADAR EVENT

MICROWAVES FOR A SUSTAINABLE TOMORROW

Register online at: **www.eumw.eu**

EuMC THE EUROPEAN MICROWAVE CONFERENCE

EuMIC THE EUROPEAN MICROWAVE INTEGRATED CIRCUITS CONFERENCE

EuRAD THE EUROPEAN RADAR CONFERENCE

EuMA EUROPEAN MICROWAVE ASSOCIATION

horizon house

EuMA
EUROPEAN MICROWAVE ASSOCIATION

PROMOTING EUROPEAN MICROWAVES

Join the EuMA community

www.eumwa.org

Get your benefits

European Microwave Week

www.eumw.eu

- Reduced fees

International Journal

- Free e-access

Knowledge Centre

- Database

Future EuMWs

- 2027 Milan
- 2028 Gothenburg
- 2029 Düsseldorf
- 2030 Paris
- 2031 Utrecht
- 2032 Glasgow

Table of Contents

The European Microwave Week 2026 organisers would like to thank the following companies for their help and valued support throughout this year's event.

PLATINUM SPONSOR

KEYSIGHT

25 YEARS EuMW

PLATINUM SPONSOR

CONFERENCE SPONSORS

AARONIA AG

WWW.AARONIA.DE

MiCIAN

apidRF

SPECTRUM CONTROL™

EXHIBITOR SPONSORS

SUPPORTING INSTITUTIONS

MEDIA PARTNERS

Welcome to the 29th European Microwave Week

It is our great pleasure to welcome you to the 29th European Microwave Week (EuMW 2026), taking place from the 4th to 9th October 2026 at Excel London, United Kingdom. We are delighted to host the international microwave, RF, wireless and radar community once again in one of Europe's most vibrant and globally connected cities.

The theme of EuMW 2026; "Radiating Change, Microwaves for a Sustainable Tomorrow" reflects the need for us all to embrace sustainable science and engineering. Palpably sustainable materials technologies, techniques, processes and practices will play a critical role in developing next-generation communications, sensing, radar, satellite systems, quantum technologies, autonomous platforms and advanced security applications. EuMW provides a unique environment where academia, industry and government organisations come together to exchange ideas, present breakthroughs and shape future technological directions.

As always, European Microwave Week offers an outstanding platform for scientific exchange, collaboration and innovation. EuMW 2026 features:

- The 56th European Microwave Conference (EuMC)
- The 21st European Microwave Integrated Circuits Conference (EuMIC)
- The 23rd European Radar Conference (EuRAD)

Together, these conferences deliver a comprehensive technical programme including plenary sessions, special and focused sessions, workshops, short courses, industrial presentations and several hundred peer-reviewed scientific papers. Topics span microwave and millimetre-wave engineering, radar and sensing systems, integrated circuits, antennas and propagation, terahertz technologies, packaging, photonics, advanced manufacturing, artificial intelligence for RF systems, and future wireless networks including 6G and beyond, across all of which we aim to promote sustainable developments.

Our programme is further enriched by:

- A major international exhibition featuring leading organisations from across the microwave, RF, wireless and radar sectors showcasing the latest technologies, products and services;
- Thematic forums including the 6G Forum, Automotive Forum and new in 2026 separate Space and Defence Forums, providing dedicated platforms for discussion on emerging challenges, applications and industrial trends;
- A sustainability showcase with special sessions, presentations and displays;
- Dedicated activities supporting students, young professionals and the wider community, including the Tom Brazil Doctoral School of Microwaves, student competitions, career development initiatives, Women in Microwaves activities and networking opportunities throughout the week.

EuMW 2026 returns to London, one of the world's leading centres for science, engineering, business and culture. As a truly international city, London offers visitors an exceptional combination of historic landmarks, world-class museums, diverse cultural experiences and outstanding transport connectivity. Excel London provides the ideal venue for hosting a major international event of this scale, enabling close interaction between conference delegates, exhibitors and the broader microwave community.

We extend our sincere thanks to all authors, reviewers, sponsors, exhibitors, volunteers and members of the organising committee whose dedication and hard work make EuMW 2026 possible. We also thank EuMA and Horizon House for their continued support and commitment to the success of European Microwave Week.

We look forward to greeting you in London and sharing an exciting, inspiring and memorable EuMW 2026 with you.

STEPHEN HARMAN
EuMW General Chair
Thales UK, United Kingdom

JOHN CUNNINGHAM
EuMW General Co-Chair
University of Leeds, United Kingdom

Welcome from the President of the European Microwave Association

Welcome to the 29th European Microwave Week in London!

It is my great pleasure to welcome you to EuMW2026, Europe's premier event dedicated to microwave, RF, wireless and radar technologies. This year we gather in London, a globally connected centre for science, engineering and innovation with a long history of pioneering advances in electromagnetics, communications and radar. With its world-renowned universities, thriving technology sector and excellent international connectivity, London and ExCeL provide an outstanding setting for bringing together academia, industry and government organisations from across the global microwave community.

At EuMA, we are proud to support and promote the microwave and RF community across Europe and beyond. EuMW remains our flagship event for technical excellence, networking and professional development, enabling researchers, engineers, students and industrial leaders to connect and share knowledge.

Our commitment to supporting the next generation of engineers and scientists continues through initiatives such as the EuMA Internship Award programme, which again offers up to 10 awards of €4,500 each to outstanding Master's and PhD students for internships within leading European organisations. Details and applications are on our website, with a November deadline.

EuMA also continues to support students and delegates from NIS countries attending EuMW, through grants and reduced registration with special support for our Ukrainian colleagues.

EuMA offers membership to all working in the field of microwaves. Members enjoy reduced fees for attending EuMW and EuMA-sponsored events. EuMA members have free access to our archive of publications and the online version of the International Journal on Microwave and Wireless Technologies.

EuMA is very active on social media. Follow us @eumassociation on Facebook, LinkedIn, X (previous Twitter), YouTube and Instagram to discover our latest posts. We encourage you to like, share, and engage with our content–we're proud to reach over 7,000 followers. Plus, don't miss our insightful webinars, available live and on-demand via our webinar playlist on YouTube.

This year we introduced an all-year app. I encourage you to download it and use it. The app will give you detailed information on the current and previous EuMW and about EuMA's activities throughout the year. IOS and Android versions are both available.

EuMW2026 continues to benefit from the strong collaboration between EuMA and its technical partners, including the IEEE Societies MTT, AP, AESS, and ED; the GAAS Association; The MIKON Foundation; EurAAP; APMC; and our valued event organiser, Horizon House/ Microwave Journal.

Preparing and hosting EuMW is a major effort, from paper submission and review to on-site organisation. This is accomplished by a team of volunteers year by year. My special thanks go to Stephen HARMAN, the 2026 General Chair, and Operational Officer Dan WILLIAMSON; Treasurer Noushin KARIMIAN; General TPC Chair Xiaobang SHANG; Nick RIDLER and Ian BURNAGE, the EuMC Chair and Co-Chair respectively; Tudor WILLIAMS and Chong LI, the EuMIC Chair and Co-Chair respectively; and David GREIG and Matt RITCHIE, the EuRAD Chair and Co-Chair respectively. Thank you all!

I would also like to express my gratitude to Michel ZOGHOB and the team at Horizon House for their continued professionalism and support in organising both the conference and exhibition.

EuMW2026 promises an exceptional week supported by a world-class exhibition and an exciting programme of activities. We also encourage you to take time to experience London itself – from the historic landmarks of Westminster to the many vibrant districts that make London one of the world's most exciting cities.

We are delighted to welcome you to London for EuMW2026 and wish you an inspiring and enjoyable European Microwave Week.

FRANK VAN DEN BOGAART
President European Microwave Association

Welcome to the 21st European Microwave Integrated Circuits Conference, EuMIC 2026

Join us at the 21st European Microwave Integrated Circuits Conference (EuMIC) in London, UK, from October 5–6, 2026. As part of European Microwave Week, EuMIC is the premier European forum dedicated to RF, microwave, millimetre-wave and terahertz integrated circuits, systems and enabling technologies. Bringing together industry leaders, researchers, academics and government representatives, the conference provides a unique platform to exchange ideas, explore emerging trends and discover the latest advances shaping the future of high-frequency electronics. With London serving as a global hub for technology, business and innovation, and this year's theme focused on sustainability, the ExCeL Centre offers the ideal setting for collaboration, networking and technical discussion.

The conference showcases recent achievements and emerging innovations across the high-frequency electronics landscape, providing extensive opportunities for scientific exchange and professional interaction. Technical coverage spans devices, fabrication and packaging technologies through to monolithic integrated circuits, system-in-package and system-on-chip solutions, including modelling, simulation, measurement and system-level implementation. EuMIC remains the key venue for both III-V and silicon-based technologies, while also encouraging contributions in nanotechnologies, wide-bandgap devices and microwave photonics.

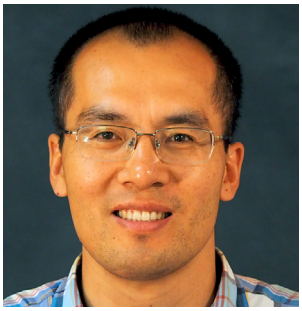
Emerging applications including 6G and terahertz connectivity, intelligent sensing, connected and autonomous vehicles, non-terrestrial networks, smart cities and smart manufacturing are increasingly reliant on advanced high-frequency technologies. These global megatrends continue to drive innovation across microwave and terahertz electronics, shaping future investment priorities and technology strategies throughout the integrated circuit industry.

The 2026 conference will feature more than 100 peer-reviewed papers presented across up to six parallel oral sessions and two poster sessions during the two-day programme. The opening session will include keynote presentations from Dr Merv Haynes of CML on trends in III-V semiconductor design and Dr Alan Wong of Ensilica on RF/mmWave silicon enabling the SATCOM space race, followed in the evening by a networking get-together sponsored by the GAAS Association. The closing session will feature keynote talks from Prof. Steve Cripps of Cardiff University, titled *Microwave Transformers – A Tale of Different RF Cultures*, and Dr Jan Verspecht of Keysight on innovations in microwave instrumentation. During the closing event, awards will also be presented for Best Paper, two Young Engineer Prizes and the GAAS Association Tom Brazil Fellowship Award (selecting from three finalists). Accepted papers will be published in the IEEE Xplore Digital Library, while selected extended papers will appear in a special issue of the International Journal of Microwave and Wireless Technologies.

The organising committee would also like to thank the Technical Programme Committee members, reviewers and past EuMIC organising teams for their continued support and commitment in helping deliver another outstanding conference programme and maintaining the high technical standards of EuMIC.

If you want to hear about the latest advances in integrated circuit technology and the innovations enabling next-generation applications, join us at EuMIC 2026 in London. We look forward to personally welcoming you to London for what promises to be an outstanding opportunity to network with peers, learn about the latest industry trends and engage with the global microwave integrated circuits community.

TUDOR WILLIAMS
EuMIC Chair
Filtronic, United Kingdom



CHONG LI
EuMIC Co-Chair
University of Glasgow, United Kingdom

KEVIN MORRIS
EuMIC TPC Chair
University of Leeds, United Kingdom

TOMMASO CAPPELLO
EuMIC TPC Co-Chair
Villanova University, USA

Welcome to the 56th European Microwave Conference, EuMC 2026

The European Microwave Conference (EuMC) is Europe's premier conference dedicated to RF, microwave, millimetre-wave and terahertz science, engineering and technology. The 56th EuMC is taking place in London, UK. This will be the 6th time that London has hosted this prestigious event. In fact, the very first EuMC was held in London, way back in 1969.

The conference is taking place from 6th to 8th October 2026 and is the core component of European Microwave Week. These dates coincide with the dates of a very large microwave trade show and exhibition which is collocated with the conference. The trade show is free to attend, so delegates at EuMC can also spend time visiting exhibits from the world's leading suppliers of microwave products and services.

The conference features around 300 papers delivered in 50 technical sessions (i.e., 47 oral sessions and three poster sessions) throughout the full three days of the event. The conference papers have been subjected to rigorous peer-review and will be published subsequently in the IEEE Xplore digital library. Extended versions of selected papers will also feature in a special issue of the International Journal of Microwave and Wireless Technologies.

The conference papers align with at least one of the EuMC 2026 topics. Most of these topics have featured in previous editions of EuMC, although new topics, such as Reconfigurable Intelligent Surfaces (RIS), are also being included in this year's conference.

The overarching theme of this year's European Microwave Week (of which EuMC is a part) is "sustainability", and so there are several papers relating to this theme at the conference.

EuMC 2026 also provides many opportunities for networking and interaction with international experts in a wide variety of specialties, attracting delegates with academic as well as industrial backgrounds. In addition to scientific papers from leading academics not only in the form of papers but also in workshops, contributions describing industrial applications are also being featured. These cover fields such as instrumentation, medicine, telecommunications, radio astronomy, space, automotive, defence and security.

The EuMC Opening Session will feature two keynote talks – one, from Stepan Lucyszyn, Imperial College London, entitled "Building-edge Additive Manufacturing Technologies: 3D Printing Landscape for Next Generation Radio Frequency Applications" and one from Sam Brokenshire, Flann Microwave Ltd, entitled "The Current State of the Art in Waveguide Technology and Trends in Application Requirements in the Near to Mid-term".

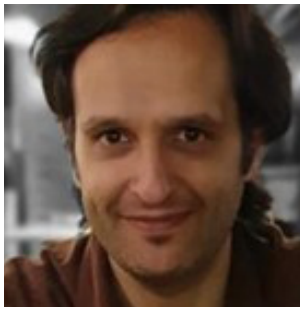
The EuMC Closing Session will also feature two keynote talks – one, from Tobias Lindstrom, National Physical Laboratory, entitled "The Critical Role of RF and Microwave Engineering in Quantum Technology" and one from Alisa Danilenko, Keysight Technologies, entitled "Development of RF and Microwave Solutions for Quantum Control and Measurement". These talks reflect the increasing role that microwave science and engineering is playing in the emerging area of practical quantum technologies, such as quantum computing and sensing.

Finally, this year's EuMC is being hosted in London – the capital city of the UK. London is famous for its multicultural environment – for its people, cuisine, and entertainment. So, please also use this opportunity to immerse yourself in the daily life of this very cosmopolitan 21st century city. Enjoy London – but first and foremost, enjoy EuMC!

NICK RIDLER
EuMC Chair
National Physical Laboratory,
United Kingdom

IAN BURNAGE
EuMC Co-Chair
Flann Microwave Ltd,
United Kingdom

JIAFENG ZHOU
EuMC TPC Chair
University of Liverpool,
United Kingdom



ROBERTO GOMEZ-GARCIA
EuMC TPC Co-Chair
University of Alcalá, Spain

Welcome to the 23rd European Radar Conference, EuRAD 2026

Dear colleagues from the international radar community,

On behalf of the organising committee, it is our great pleasure to welcome you to the 23rd European Radar Conference (EuRAD 2026), taking place in London, United Kingdom, from 7–9 October 2026 as part of European Microwave Week 2026.

EuRAD continues to be Europe's premier conference dedicated to radar research, technologies, systems, and applications. The conference brings together researchers, engineers, practitioners, and students from across the world to exchange ideas, present the latest advances, and discuss the future directions of radar and sensing technologies.

The technical programme is organised around four major themes: Radar Phenomenology and Modelling, Radar Technologies, Radar Signal Processing, Algorithms and AI, and Radar Applications. This year's programme reflects the rapidly evolving radar landscape, with contributions spanning phased-array and multifunction radar, passive and multistatic sensing, waveform design, mm-wave and THz systems, cognitive radar, joint sensing and communications, automatic target recognition, and emerging quantum-enabled radar research.

The applications programme highlights the increasing importance of radar across defence and security, autonomous and automotive systems, industrial monitoring, healthcare and biomedical sensing, environmental monitoring, and space domain awareness.

EuRAD 2026 is proud to host four distinguished keynote speakers:

- Prof. Marco Martorella – University of Birmingham, UK
- André Hanewinkel – Hensoldt, Germany
- Michela Corvino – European Space Agency (ESA)
- Phil Clarke – BAE Systems, UK

This year, EuRAD received 209 paper submissions from across the international radar community, demonstrating the continued strength and growing impact of radar research worldwide. The conference programme features more than 100 peer-reviewed papers presented across up to six parallel oral sessions and two poster sessions throughout the three-day programme. Accepted papers will be published in the IEEE Xplore Digital Library, while selected extended papers will be invited for publication in a special issue of the International Journal of Microwave and Wireless Technologies.

Alongside the technical programme, EuRAD 2026 provides excellent opportunities for discussion, collaboration, and networking across academia, industry, and government organisations. We also warmly invite attendees to join the EuRAD social event on Thursday evening at the Crowne Plaza London Docklands, located adjacent to the ExCeL London exhibition centre, offering an excellent opportunity to continue discussions and strengthen connections within the radar community.

We would like to sincerely thank all authors, reviewers, session chairs, sponsors, exhibitors, and volunteers whose efforts have made EuRAD 2026 possible. We are confident that the conference will be both technically inspiring and professionally rewarding, and we hope you enjoy your time in London.

DAVID GREIG
EuRAD Chair
Leonardo, United Kingdom

MATT RITCHIE
EuRAD Co-Chair
University College London, United Kingdom

MARINA GASHINOVA
EuRAD TPC Chair
University of Birmingham, United Kingdom

CARMINE CLEMENTE
EuRAD TPC Co-Chair
University of Strathclyde, United Kingdom

Welcome from the General TPC Chairs

We are delighted to welcome you once again to European Microwave Week in London. While much has evolved since EuMW 2021, the UK capital remains one of the world's foremost centres for culture, arts, sport, entertainment and innovation. We look forward to hosting you at EuMW 2026 and hope you will not only benefit from our outstanding conference programmes but also take the opportunity to enjoy everything this vibrant city has to offer.

We extend our sincere thanks to the more than 550 expert reviewers who carefully evaluated 839 submitted papers, providing detailed, constructive feedback. Their dedication and expertise have been essential in maintaining the high quality of this year's technical programme.

We also recognise the outstanding efforts of the Technical Programme Committee and the TPC Chairs. This team of over 120 highly experienced experts, working across 33 subcommittees, thoroughly reviewed all submissions and selected the most significant contributions. The final programme reflects an acceptance rate of approximately 65% and comprises around 110 sessions, including focused and special sessions, covering key topics in microwave, RF, wireless and radar technologies.

The technical programme features 472 oral presentations and 80 poster contributions, with each paper undergoing a rigorous review process that included, on average, nearly seven independent reviews. In addition, several sessions include invited talks from leading industry experts, highlighting the practical relevance and industrial impact of the research presented.

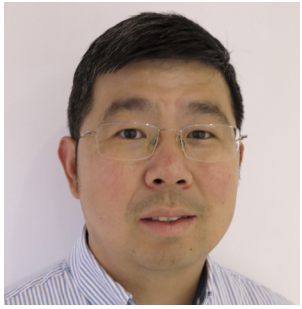
Beyond the core conference sessions, EuMW 2026 offers an extensive programme of workshops, short courses, forums and special sessions, providing valuable opportunities for knowledge exchange, collaboration, networking and professional development. The Defence, Automotive and 6G Forums, together with the European Microwave Exhibition, further reinforce the event's position as Europe's premier gathering for the microwave and RF community.

Our field is dynamic and continuously evolving. This year's programme reflects the most important and rapidly developing themes, including new applications and enabling technologies for high millimetre-wave and low terahertz bands; RF and microwave technologies for quantum applications; advanced manufacturing processes that open new possibilities in component design and system integration; and artificial intelligence (AI), both as a design and fabrication tool and as a transformative paradigm in signal processing. The programme also highlights emerging radar applications across many aspects of modern life, alongside advances in communications systems, including 6G and beyond.

The theme of EuMW 2026, "Microwaves for a Sustainable Tomorrow," emphasises the vital role of microwave, RF, wireless and radar technologies in supporting a more sustainable and connected world. From next-generation communications and sensing to applications in transportation, space, healthcare and energy-efficient systems, our community continues to drive innovations that contribute to technological progress while addressing global sustainability challenges.

We warmly thank all those who have contributed to the success of this year's programme. In particular, we acknowledge the leadership of the TPC Chairs - Kevin Morris and Tommaso Cappello (EuMIC), Jiafeng Zhou and Roberto Gómez-García (EuMC), and Marina Gashinova and Carmine Clemente (EuRAD). Our gratitude also extends to EuMW 2026 General Chair Stephen Harman, Operational Officer Daniel Williamson, and the local organising committee for their dedication. We further thank the EuMW Officers, the EuMA Board of Directors, and the Paper Management Team - Marc van Heijningen, Cristina Andrei and Megha Krishnaji Rao - together with TPC Support Lead Abhijeet Kanitkar, for their excellent coordination throughout the preparation of EuMW 2026.

It is both a pleasure and a privilege to serve as General TPC Chairs for EuMW 2026. We look forward to welcoming you to London.



XIAOBANG SHANG
EuMW General TPC Chair
National Physical Laboratory, United Kingdom

DOMINIQUE SCHREURS
EuMW General TPC Co-Chair
KU Leuven, Belgium

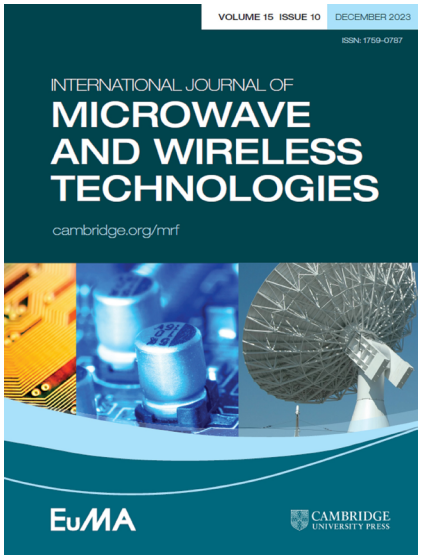
International Journal of Microwave and Wireless Technologies: EuMW2026 Special Issue

The International Journal of Microwave and Wireless Technologies was created in 2009 by the European Microwave Association (EuMA) and Cambridge University Press for the benefit of the microwave research community in Europe and overseas.

The journal is published ten times a year. It allows academic and industrial researchers to promote their work and stay connected with the most recent developments in microwave and RF technology. The journal is referenced in databases such as Scopus and Google Scholar and is indexed in the Thomson Reuters Web of Science. Following the success of previous microwave weeks, the journal will again publish a special issue dedicated to European Microwave Week 2026.

The authors of several highly ranked papers presented at the conferences will be invited to submit an extended version for publication in the journal. The special issue will be guest edited by Jiafeng Zhou, TPC Chair of EuMC 2026, Kevin Morris, TPC Chair of EuMIC 2026, and Marina Gashinova, TPC Chair of EuRAD 2026.

Accepted papers will be published online at https://www.cambridge.org/core/journals/international-journal-of-microwave-and-wireless-technologies and can be referenced using their DOI (Digital Object Identifier). Once all submissions are received, the articles will be collected into a dedicated Special Issue.



JIAFENG ZHOU AND ROBERTO GOMEZ-GARCIA
EuMC TPC Chair and Co-Chair

KEVIN MORRIS AND TOMMASSO CAPPELLO
EuMIC TPC Chair and Co-Chair

MARINA GASHINOVA AND CARMINE CLEMENTE
EuRAD TPC Chair and Co-Chair

Follow Us on Social Media

BETH JELFS AND DARYNA PESINA
Social Media Chair and EuMA Innovation Team and Social-Media Editor

The EuMW 2026 Organising Committee

STEPHEN HARMAN
EuMW General Chair
Thales UK
United Kingdom

JOHN CUNNINGHAM
EuMW General Co-Chair
University of Leeds
United Kingdom

DAN WILLIAMSON
EuMW Operational Officer
Thales UK
United Kingdom

NOUSHIN KARIMIAN
EuMW Treasurer & WiM Chair
Manchester Met University
United Kingdom

XIOABANG SHANG
EuMW General TPC Chair
National Physical Lab.
United Kingdom

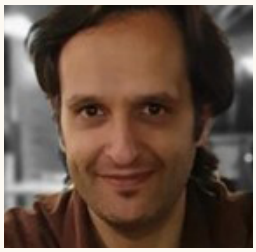
DOMINIQUE SCHREURS
EuMW General TPC Co-Chair
KU Leuven
Belgium

MOHAMMED JAHANGIR
Publication Chair
University of Birmingham
United Kingdom

NICK RIDLER
EuMC Chair
National Physical Lab.
United Kingdom

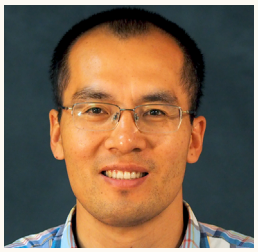
IAN BURNAGE
EuMC Co-Chair
Flann Microwave Ltd
United Kingdom

JIAFENG ZHOU
EuMC TPC Chair
University of Liverpool
United Kingdom



ROBERTO GOMEZ-GARCIA
EuMC TPC Co-Chair
University of Alcalá
Spain

TUDOR WILLIAMS
EuMIC Chair
Filtronic
United Kingdom



CHONG LI
EuMIC Co-Chair & 6G Forum Co-Chair
University of Glasgow
United Kingdom

KEVIN MORRIS
EuMIC TPC Chair
University of Leeds
United Kingdom

TOMMASSO CAPPELLO
EuMIC TPC Co-Chair
Villanova University
USA

DAVID GREIG
EuRAD Chair
Leonardo
United Kingdom

MATT RITCHIE
EuRAD Co-Chair
University College London
United Kingdom

MARINA GASHINOVA
EuRAD TPC Chair
University of Birmingham
United Kingdom

CARMINE CLEMENTE
EuRAD TPC Co-Chair
University of Strathclyde
United Kingdom

THOMAS ZWICK
Automotive Forum Chair
Karlsruhe Institute of Technology
Germany

BENJAMIN NUSS
Automotive Forum Co-Chair
Karlsruhe Institute of Technology
Germany

BART SMOLDERS
6G Forum Chair
Eindhoven University of Technology
The Netherlands

VOLKAR ZIEGLER
Defense Forum Chair
Airbus
Germany

PATRICK SCHEELE
Defense Forum Co-Chair
Ferdinand-Braun-Institut gGmbH
Germany

KAMAL SAMANTA
Space Forum & Poster Chair
AMWT Ltd UK
United Kingdom

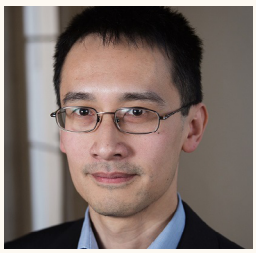
SHOKROLLAH KARIMIAN
Awards Chair
University of Glasgow
United Kingdom

FATEMEH NOROUZIAN
Workshop & Short courses chair
University of Birmingham
United Kingdom

SEAN GU
Special Session Chair
University of Bristol
United Kingdom

JAMES STEPHENSON
Volunteers Chair
University of Glasgow
United Kingdom

PRIYA KUMARI
Volunteers Co-Chair
University of Leeds
United Kingdom

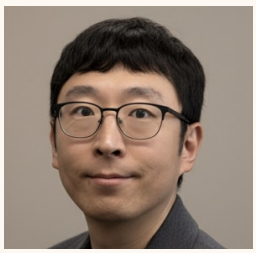


LAI BUN LOK
Doctoral school chair
University College London
United Kingdom

SAMUEL HEFFORD
Student School Chair
Cardiff University
United Kingdom

HEUNGJAE CHOI
Student School Co-Chair
Cardiff University
United Kingdom

ROLA SAAD
Chair Career platform
University College London
United Kingdom



SAEJUNE PARK
Local Arrangements Chair
Queen Mary University of London
United Kingdom

MAHMOUD WAGIH
Sustainability Chair
University of Glasgow
United Kingdom

ABHIJEET KANITKAR
TPC Program Support Lead
Ferdinand-Braun-Institut gGmbH
Germany

MERLYNE DE SOUZA
Grants chair
University of Sheffield
United Kingdom

EMMA HARMAN
Visa Chair

United Kingdom

ABDULLAH AL-KHALIDI
Sponsors Chair
University of Glasgow
United Kingdom

BETH JELFS
Social Media Chair
University of Birmingham
United Kingdom

CHRIS GILLIAM
Social Media Co-Chair
University of Birmingham
United Kingdom

DARYNA PESINA
EuMA Innovation Team and Social-Media Editor
Chalmers University of Technology
Sweden

MICHEL ZOGHOB
Event Director
Horizon House
United Kingdom

JULIE MILLS
Event Manager
Horizon House
United Kingdom

SALLY GARLAND
Hotels and Partner Programme
Connex Hotels and Events
United Kingdom

FRANK VAN DEN BOGAART
EuMA President
EuMA
Belgium

ANNEMIE VAN NIEUWERBURGH
EuMA Headquarters assistant
EuMA
Belgium

BART NAUWELAERS
EuMA Treasurer
EuMA
Belgium

LUCA PERREGRINI
EuMW Officer
University of Pavia
Italy

MARC VAN HEIJNINGEN
Software Officer
TNO
The Netherlands

CRISTINA ANDREI
Software Officer
Brandenburg University of Technology
Germany

MEGHA KRISHNAJI RAO
Software Officer and EuMA Innovation Team
Ferdinand-Braun-Institut gGmbH
Germany

2025 European Microwave Week in Utrecht Best Paper Prizes: EuMC

CONFERENCE PRIZE

Authors
J. L. Gonzalez Jimenez, A. Siligaris, A. Hamani, A. Clemente, F. Foglia Manzillo, C. Dehos, J.-B. Dore, N. Cassiau
Université Grenoble-Alpes, CEA-Leti, France

Title
A 58 Gb/s D-band NLOS link enabled by active RIS

Sponsors – IMA e.V.

IMA e.V.

YOUNG ENGINEER PRIZE

Authors
B. Tegowski, D. Langer, N.C. Albrecht, A. Kölpin
Institute of High-Frequency Technology, Hamburg University of Technology, Germany

Title
Fast Determination of the Monostatic Radar Channel in the Near-Field of Electrically Large Targets

Sponsors – The Antenna Company

ANTENNA COMPANY

YOUNG ENGINEER PRIZE

Authors
A. Cahandra Prabhu, J. Grzyb, M. Andree, Z. Cao, H. Rücker, U.R. Pfeiffer
IHCT, University of Wuppertal, German

Title
A J-Band Low-Noixe Amplifier with 100+ GHz 3-dB Bandwidth in a 130-nm SiGe BiCMOS Technology

Sponsors – IMEC

imec

2025 European Microwave Week in Utrecht Best Paper Prizes: EuRAD

CONFERENCE PRIZE

Authors
R. Ghasemi, T. Koegel, P. Fenske, D. Gunders-Hunt, M. Vossiek
Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Title
Ultra-Precise PTP Implementation Extended with a Kalman Filter for Wireless Clock Synchronization Enabling Signal Time-of-Flight and Distance Measurements

Sponsors – Thales Nederland

THALES NEDERLAND B.V.

YOUNG ENGINEER PRIZE

Authors
T. Noegel, M. Reinecke, O. Sura, M. Heidbrink, M. Hoffmann, M Vossiek
Institute of Microwaves and Photonics (LHFT),
Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Title
Automotive SAR for Advanced Road Debris Detection

Sponsors – Thales Nederland

THALES NEDERLAND B.V.

YOUNG ENGINEER PRIZE

Authors
M. Pircher, M. Jäger, U. Johannsen
Microwaves and Radar Institute, German Aerospace Center (DLR), Germany

Title
Influence of Turbulences and Cross-Wind on the Signal Quality in Circular Synthetic Aperture Radar

Sponsors – HENSOLDT

HENSOLDT
Detect and Protect.

2025 European Microwave Week in Utrecht Best Paper Prizes: EuMIC

CONFERENCE PRIZE

Authors
H. Sadkaoui, P. Hillger, J. Grzyb, X. Du, M. Andree, H. Rucker, U. Pfeiffer
University of Wuppertal, Wuppertal, Germany

Title
A 320GHz 32x32 Pixel Near-Field Sensor SoC for Real-Time Imaging in 130-nm SiGe BiCMOS

Sponsors – EHCI

YOUNG ENGINEER PRIZE

Authors
J. Xu, E. Liu, M. Eleraky, T.-Y. Huang, C. Chu, H.Wang
IDEAS, ETH Zurich, Switzerland

Title
An Ultra-Compact Ku-Band Doherty Power Amplifier with a Single-Footprint Triple Two-Turn Asymmetric Combiner for 6G FR3

Sponsors – Huawei

YOUNG ENGINEER PRIZE

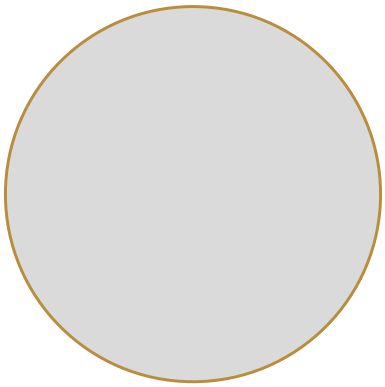
Authors
P. Umbach, F. Thome, A. Leuther, R. Quay
Fraunhofer Institute for Applied Solid State Physics (IAF), Freiburg, Germany

Title
Resistive D-Band Mixers with Monolithic Integrated Broadband IF Balun and LO Amplifier

Sponsors – Huawei

EuMA Roberto Sorrentino Prize

THIS ANNUAL AWARD RECOGNIZES AN OUTSTANDING YOUNG PROFESSIONAL WHO IS A EUMA MEMBER WHO HAS DISTINGUISHED TECHNICAL ACHIEVEMENTS WITHIN THE MICROWAVE FIELDS OF INTEREST



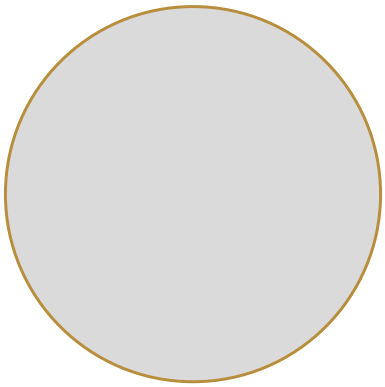
2026'S RECIPIENT: TO BE ANNOUNCED

Watch this space to learn 2026's recipient!

The Roberto Sorrentino Prize, named in his remembrance, has been initiated by Linda Di Carlo Sorrentino in cooperation with RF Microtech, the Italian EM Society (SIEm) and EuMA. It recognizes an outstanding young professional who has distinguished technical achievements (not on a single paper) within the microwave field. This prize focuses on the individual rather than on specific achievements and would preferably be in yearly alternation between university and industry. The annual prize comprises a certificate, a medal and a financial award of € 4,000,contributed by Mrs. Linda Di Carlo Sorrentino, RF Microtech, SIEm, and EuMA.

EuMA Pioneer Award

THE PIONEER AWARD WAS ESTABLISHED TO RECOGNIZE AN INDIVIDUAL "WHO IS RESPONSIBLE FOR A NOTEWORTHY ADVANCE IN THE FIELD OF MICROWAVES WHICH HAS HAD A LASTING AND SIGNIFICANT EFFECT ON THE MICROWAVE COMMUNITY".

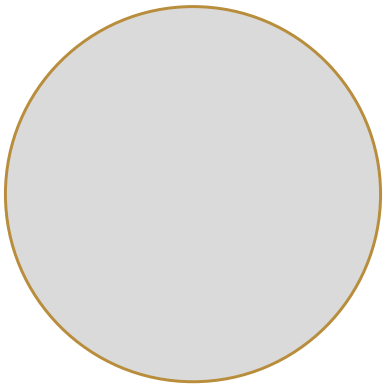


2026 RECIPIENT: PROFESSOR PAUL TASKER

Watch this space to learn more abut the 2026's recipient!

EuMA Distinguish Service Award

THE DISTINGUISHED SERVICE AWARD WAS ESTABLISHED IN 2004 TO RECOGNIZE AN INDIVIDUAL "WHO HAS GIVEN OUTSTANDING SERVICE FOR THE BENEFIT OF THE EUROPEAN MICROWAVE COMMUNITY"

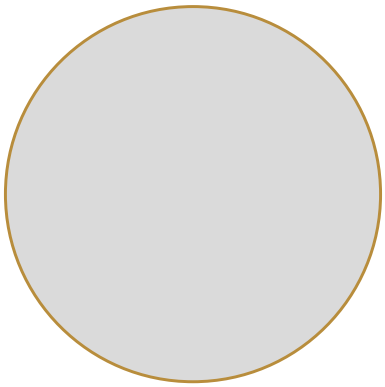


2026 RECIPIENT: FRANCISCO-JAVIER BENEDICTO RUIZ

Watch this space to learn more about the 2026's recipient!

EuMA Outstanding Career Award

THE OUTSTANDING CAREER AWARD WAS ESTABLISHED IN 2008, TO RECOGNIZE AN INDIVIDUAL "WHOSE CAREER HAS EXEMPLIFIED OUTSTANDING ACHIEVEMENTS IN THE FIELD OF MICROWAVES"



2026 RECIPIENT: TO BE ANNOUNCED

Watch this space to learn more about the 2026's recipient

Tom Brazil Fellowship Award Student Essay Competition (by the GAAS® Association)

Advancing sustainability in or through microwaves

GAAS ASSOCIATION AND EUMA ARE PROUD TO CONGRATULATE THE WINNERS OF THE TOM BRAZIL FELLOWSHIP AWARD. THEY REPRESENT THE CREATIVITY AND VISION OF AN UPCOMING GENERATION OF RESEARCHERS AND ENGINEERS WHO WANT TO IMPROVE OUR FUTURE.

Authors
Thomas Micallef
Thomas Micallef, Canada

Title
Deep Integration of Wireless Multifunctionality: A Vision for Future-Ready Systems

Authors
Mohammad Alsukour
CEA-Leti, France

Title
A Sustainable Path to mm-Wave Systems Through Direct Hybrid Bonding

Sponsors

International Journal of Microwave and Wireless Technologies: Former Best Paper Prize

THE INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES SELECTS ONE PAPER PER YEAR FOR THE BEST PAPER AWARD OF THE JOURNAL AND ANNOUNCES IT IN THE NEXT YEAR. EUMA GRANTS AN AMOUNT OF 1,000 EURO FOR THIS AWARD. IN THE FOLLOWING, THE LIST OF THE FORMER RECIPIENTS OF THE PRIZES:

2025 RECIPIENT: Tobias T. Braun, Jan Schoepfel, aldo J. Marquez M. and Nils Pohl

2025
Tobias T. Braun, Jan Schoepfel, aldo J. Marquez M. and Nils Pohl, "Overcoming the relative bandwidth limitations of single VCO frequency synthesizers by implementing a novel PLL architecture," International Journal of Microwave and Wireless Technologies. 2024, 16(5):720-729

2024
Petr Kadera, Jesús Sánchez-Pastor, Lisa Schmitt, Martin Schüßler, Rolf Jakoby, Martin Hoffmann, Alejandro Jiménez-Sáez, and Jaroslav Lacik, "Sub-THz Luneburg lens enabled wide-angle frequency-coded identification tag for passive indoor self-localization," International Journal of Microwave and Wireless Technologies. 2023, 15(1), 59–73

2023
Sofian Hamid, Dirk Heberling, Manuela Junghähnel, Thomas Preussner, Patrick Grezki, Ludwig Pongratz, Cristian Hördemann, and Arnold Gillner, "Development of a milimeterwave transparent antenna inside a headlamp for automotive radar application," International Journal of Microwave and Wireless Technologies. 2022, 14(6), 677–688

2022
Philipp Ritter, "Toward a fully integrated automotive radar system-on-chip in 22 nm FD-SOI CMOS," International Journal of Microwave and Wireless Technologies, 2021, 13(6), 523–531.

2021
Iulia Dan, Guillaume Ducournau, Shintaro Hisatake, Pascal Szriftgiser, Ralf-Peter Braun, and Ingmar Kallfass, "A superheterodyne 300 GHz wireless link for ultrafast terahertz communication systems," International Journal of Microwave and Wireless Technologies, 2020, 12(7), 578–587.

2020
Golzar Alavi, Sefa Özbek, Mahsa Rasteh, Markus Grözing, Manfred Berroth, Jan Hesselbarth, and Joachim N. Burghartz, "Toward a flexible and adaptive wireless hub by embedding power amplifier thinned silicon chip and antenna in a polymer foil," International Journal of Microwave and Wireless Technologies, 2019, 11(5/6), 864–871.

2026 EuMA and EuMW Committees

EuMA GENERAL ASSEMBLY

Board of Directors: Frank van den Bogaart, Denis Barataud, A. Costanzo, Christian Fager, Renato Lombardi, Bart Nauwelaers, Nick Ridler, Frank van Vliet, Volker Ziegler, Thomas Zwick.

EuMW Chairs: Mark Bentum (EuMW 2025), Stephen Harman (EuMW 2026), Paolo Colantonio (EuMW 2027).

Ordinary Members: Group 1: Guillaume Ducournau, Group 2: Alexander Kölpin, Group 3: Micaela Liberti, Group 4: Xiadong Chen, Group 5: Mark Bentum, Group 6: Gregor Lasser, Group 7: Jan Mikkelsen, Group 8: Vacancy, Group 9: Piotr Slobodzian, Group 10: Zoya Eremenko, Group 11: Shmuel Auster, Group 12: Vacancy, Group 13: Holger Arthaber, Group 14: Roberto Gomez-Carcia, Group 15: Raafat R. Mansour, Group 16: Kenjiro Nishikawa, Group17: Atif Shamim

Founder Members: Leo P. Ligthart, Asher Madjar, Holger Meinel, Steve J. Nightingale, Roberto Sorrentino (†), André Vander Vorst.

By invitation: Wolfgang Heinrich, Past President; Ingmar Kallfass, Publication Officer; Danielle Vanhoenacker-Janvier, Former Secr. Gen.; Luca Perregrini, EuMW Officer; Andrew F. Wilson, Hon. Secretary; Annemie Van Nieuwerburgh, HQ Assistant.

Countries Represented: Group 1: France, Monaco; Group 2: Germany; Group 3: Italy, San Marino, Vatican City; Group 4: United Kingdom, Ireland, Gibraltar, Malta; Group 5: Belgium, The Netherlands, Luxembourg; Group 6: Iceland, Norway, Sweden; Group 7: Denmark, Faroe Islands, Finland, Greenland; Group 8: Bulgaria, Czech Republic, Hungary, Romania, Slovakia; Group 9: Estonia, Latvia, Lithuania, Poland; Group 10: Armenia, Azerbaijan, Georgia, Moldova, Ukraine; Group 11: Albania, Bosnia and Herzegovina, Croatia, Cyprus, FYR Macedonia, Montenegro, Greece, Israel, Serbia, Slovenia, Türkiye; Group 13: Austria, Liechtenstein, Switzerland; Group 14: Andorra, Portugal, Spain; Group 15: North America; Group 16: Asia-Pacific; Group 17: Africa and Middle East countries; Group 18: Central & South America.

IJMWT Editor-in-Chief: Marco Pasian

EuMA Honorary Secretary: Andrew F. Wilson

EuMW STEERING COMMITTEE

EuMA Board of Directors

EuMW Officer: Paolo Colantonio.

GAAS® Representative: Paolo Colantonio.

EuMW Chairs: Mark Bentum (EuMW 2025), Stephan Harman (EuMW 2026), Paolo Colantonio (EuMW 2027), Christian Fager(EuMW 2028), Illona Rolfes (EuMW 2029).
MTT-S Observer: Nuno Borges Carvalho.

Conference Software Officers: Marc van Heijningen, Cristina Andrei, Megha K. Rao.
APMC Delegate: Arokiaswami Alphones.

2025 Conference Chairs, TPC Chair and Treasurer: Diego Caratelli (TPC Chair), Ioan Lager (EuMC) Marion Matters-Kammerer (EuMIC), Laura Anitori (EuRAD), Ulf Johannsen (Treasurer).

2026 Conference Chairs, TPC Chair and Treasurer: Xiaobang Shang (TPC Chair), Nick Ridler (EuMC), Tudor William (EuMIC), David Grieg (EuRAD), Noushin Karimian (Treasurer).

2027 Conference Chairs, TPC Chair and Treasurer: Alessandro Cidronali (TPC Chair), Marco Pasian (EuMC), Ernesto Limiti (EuMIC), Fabiola Colone (EuRAD), Diego Masotti (Treasurer).

EuMW Operational Officers 2024 – 2027: François Danneville (2024), David Prinsloo, (2025), Dan Williamson (2026), Matteo Oldoni (2027).

HH Representatives: Ivar Bazzy, President; Michel Zoghob, Event Director.

By Invitation: Wolfgang Heinrich (Past President), Ivar Bazzy (HH), Michel Zoghob (HH), Andrew F. Wilson (Hon. Secretary), Ingmar Kallfass (Publ. Officer), Jean Hardy (EuMA Consultant), Annemie Van Nieuwerburgh (HQ Assistant), Danielle Vanhoenacker-Janvier (former director).

EuMW TECHNICAL PROGRAMME COMMITTEE

EuMC: Akram Alomainy, Dimitris Anagnostou, Denis Barataud, Chad Barlett, Pierre Blondy, Luciano Boglione, Nuno Borges Carvalho, Maurizio Bozzi, Neil Buchanan, Paolo Burghignoli, Vittorio Camarchia, Diego Caratelli, Wenquan Che, Alessandro Cidronali, Nadine Collaert, Aurelian Crunteanu, Nicolas Delhote, Tom Dhaene, Guillaume Ducournau, Ann Franchois, Michael Gadringer, Maria Garcia Vigueras, Roberto Gomez-Garcia, Katia Grenier, Jasmin Grosinger, Cheng Guo, Stephen Hanham, Yang Hao, Simon Hemour, Stephen Henthorn, Michael Hoft, Marianna Ivashina, Pekka Kangaslahti, Alexander Kolpin, Ioan Lager, Rafal Lech, Changzhi Li, Changjun Liu, Raafat Mansour, Mauro Marchetti, Holger Maune, Niko Munzenrieder, Adam Narbudowicz, Andrea Neto, Jose Carlos Pedro, Luca Perregrini, Gia Ngoc Phung, Roberto Quaglia, Óscar Quevedo-Teruel, Rodica Ramer, Jae-Sung Rieh, Hendrik Rogier, Jussi Saily, Dominique Schreurs, Ariana Serrano, Yaochun Shen, Naoki Shinohara, Lorenzo Silvestri, Richard Snyder, Chaoyun Song, Jan Stake, Manoj Stanley, Almudena Suarez Rodriguez, Miguel-Ángel Sánchez-Soriano, Cristiano Tomassoni, Mahmoud Wagih, Guoan Wang, Yi Wang, Nils Weimann, Withawat Withayachumnankul, Steve Hang Wong, Ke Wu, Jin Zhang, Jiafeng Zhou, Anding Zhu

EuMIC: Shmuel Auster, Tommaso Cappello, Corrado Carta, Kenle Chen, Paolo Colantonio, Nathalie Deltimple, Gian Piero Gibiino, Rocco Giofrè, Vadim Issakov, Ingmar Kallfass, Piyush Kaul, Gregor Lasser, Chong Li, Konstantinos Mimis, Kevin Morris, Marco Pirola, Nils Pohl, Antonio Raffo, Cicero Vaucher, Vojkan Vidojkovic, Gavin Watkins, Tudor Williams, Alexander Yarovoy, Frank van Vliet

EuRAD: Bashar Ahmad, Daniel Andre, Laura Anitori, Michail Antoniou, Igal Bilik, Andre Bourdoux, Carmine Clemente, Fabiola Cologne, Laurent Ferro-Famil, Francesco Fioranelli, Marina Gashinova, Elisa Giusti, Maria Gonzalez Huici, David Greig, Kamel Haddadi, Ronny Harnmanny, Marlene Harter, Julien Le Kernec, Pierfrancesco Lombardo, Debora Pastina, Shobha Sundar Ram, Mayazzurra Ruggiano, Fabrizio Santi, Nertjana Ustalli, Faruk Uysal, Martin Vossiek, Christian Waldschmidt, Felix Yanovsky

EUMW CONFERENCE PRIZE COMMITTEES

EUMC: Wenquan Che, Jan Stake, Luca Perregrini, Denis Barataud , Kamil Yavuz Kapusuz, Changjun Liu.

EuRAD: Mayazzurra Ruggiano, Pierfrancesco Lombardo, Andre Bourdoux, Felix Yanovsky, Igal Bilik, Laura Anitori, Darren Coe.

EuMIC: Marco Pirola, Corrado Carta, Konstantinos Mimis, Gavin Watkins.

EuMW 2026 Reviewers

To our reviewers: Thank you for your great work!

EUMW REVIEWERS

A Sergei A. Tretyakov · Adam Abramowicz · Edward Ackerman · Giuseppe Addamo · Bashar Ahmad · Wael A. Ahmad · Zunnurain Ahmad · Janne P. Aikio · Beatriz Aja · Jabran Akhtar · Adnan Al Baba · Ahmad Al Hajjar · Juha Ala-Laurinaho · Basim Alabd · Mohammad Alaee-Kerahroodi · Catherine Algani · Federico Alimenti · Akram Alomainy · Arokiaswami Alphones · Rula Alrawashdeh · Giandomenico Amendola · Dimitris E. Anagnostou · Daniel Andre · Cristina Andrei · Alberto Maria Angelotti · Iltcho Angelov · Laura Anitori · Michael Antoniou · Francesca Apollonio · Fritz Arndt · Jean-Daniel Arnould · Iván Arregui · Shah Zaib Aslam · Hervé Aubert · Klaus Aufinger · Shmuel Auster · Shivansh Awasthi

B Christoph Baer · Edward Ball · Hemanga Banerjee · David Bannister · Denis Barataud · Jan Barowski · César Barquinero Gómez · Manuel J. Barragan · Chad Bartlett · Taylor Barton · Marc Bauduin · Petros Beleniotis · Brahim Benbakhti · Olof Bengtsson · Tibor Berceli · Manfred Berroth · Alessio Berto · Alexandre Bessemoulin · Sumit Bhardwaj · Jan Geralt Bij de Vaate · Pierre Blondy · Rodrigo Blázquez-García · Luigi Boccia · Luciano Boglione · Fabrizio Bonani · Carlo Bongioanni · Nuno Borges Carvalho · Detmer A. Bosma · Jonathan Bott · Maurizio Bozzi · Tobias T. Braun · Christian Bredendiek · Sander Bronckers · Tim Brown · Eric Bryerton · Neil Buchanan · Djuradj Budimir · Alina-Cristina Bunea · Paolo Burghignoli · Ludovic Burgnies · Shah Nawaz Burokur · Jessica Bénédicto

C Pedro Miguel Cabral · Vittorio Camarchia · Juan Luis Cano · Tommaso Cappello · Diego Caratelli · Emanuele Cardillo · Guillermo Carpintero · Ricardo Carrizales-Juarez · Corrado Carta · Juan-Carlos Castelli · Aled Catherall · Robert Caverly · Alexandre Chabory · Subhradeep Chakraborty · Yin-Cheng Chang · Girdhari Chaudhary · Wenquan Che · Jingjing Chen · Pedro Cheong · Kevin Chetty · Stefano Chioccarello · Heungjae Choi · Debabani Choudhury · Alessandro Cidronali · Antonio Clemente · Carmine Clemente · Paolo Colantonio · Nadine Collaert · Giovanni Collodi · Fabiola Colone · David Cordeau · Aitor Correas-Serrano · Angela Coves Soler · Pepijn Cox · Diego Cristallini · Aurelian Crunteanu · Iñigo Cuiñas · Luís Cótimos Nunes

D Alexandre DOUYERE · Gilles Dambrine · Patrik Dammert · François Danneville · Oshin Daoud · Tworit Dash · Peter De Hek · Gonzalo De Miguel Vela · Jacco De Wit · Luisa De la Fuente · Sebastien Delcourt · Nicolas Delhote · Nicolò Delmonte · Nathalie Deltimple · Kristof Dens · Philippe Descamps · Tom Dhaene · Simona Di Meo · Marco Di Seglio · Aliou Diallo · Sebastian Diebold · Damla Dimlioglu · Jian Ding · Kaijie Ding · Gwennaël Diverrez · Yassen Dobrev · Simona Donati Guerrieri · David Dubuc · Guillaume Ducournau · Cédric Durand · Yvan Duroc · Laurent Dussopt · Claude Duvanaud · Anna Dzvonkovskaya

E Bruno Eckmann · Taro Eichler · Jayaprasath Elumalai · Jens Engelmann · Jaap Essing

F Francisco Falcone · Michael Feiginov · Mónica Fernández Barciela · Miguel Ferrando-Bataller · Miguel Ferrando-Rocher · Laurent Ferro-Famil · Pavel Fiala · Francesco Fioranelli · Michele Fiorini · Georg Fischer · Erwan Fourn · Ann Franchois · Laurent Francis · Marc Franco · Aniello Franzese · Sébastien Fregonese · Dominic Funke

G Ahmed Gadallah · Michael Ernst Gadringer · Davy Gaillot · Gaspare Galati · Alessandro Galli · Richard Xian-Ke Gao · José María García Barceló · Markus Gardill · Frederic Garet · Marina Gashinova · Mike Geen · Matthias Geissler · Simone Genovesi · Apostolos Georgiadis · Bertrand Gerfault · Pratik Ghate · Paolo Ghelfi · Giovanni Ghione · Anthony Ghiotto · Sandip Ghosal · Giacomo Giannetti · Gian Piero Gibiino · Pere L. Gilabert · Nimrod Ginzberg · Rocco Giofrè · Alexandre Giry · Elisa Giusti · Daniela Godinho · Xun Gong · Ramon Gonzalo · José-Luis González-Jiménez · Jesús Grajal · Giuseppe Gramegna · David Greig · Katia Grenier · Jasmin Grosinger · Janusz Grzyb · Xiaoqiang Gu · Viswanadh Raviteja Gudivada · Ronny Guendel · Marco Guglielmi · Cheng Guo · Roberto Gómez-García

H Kamel Haddadi · Zenalda Hajdaraj · Mehrdad Hajivandi · Sara Hamzeloui · Stephen Hanham · Stephen Harman · Ronny Harmanny · Marlene Harter · Jürgen Hasch · Dirk Heberling · Martijn Heck · Wolfgang Heinrich · Simon Hemour · Israel Hinostroza Saenz · Colin Horne · Zhirun Hu · Qiang Hua · Florin Doru Hutu · Isabelle Huynen · Michael Höft

I Stavros Iezekiel · Vadim Issakov · Marianna Ivashina

J Vishal Jagtap · Bernard Jarry · Divya Jayasankar · John Jelonnek · Zhenzhen Jiang · Alejandro Jiménez-Sáez · Ulf Johannsen · Marvin Joshi

K Ingmar Kallfass · Tomoya Kaneko · Pekka Kangaslahti · Abhijeet Kanitkar · Mehmet Karaaslan · Franz Kartner · Piyush Kaul · Nicolai Kern · Anton Kharchevskii · Bumman Kim · Justin King · Dietmar Kissinger · Tero Kiuru · Jens Klare · Thomas Kleine-Ostmann · Peter Knott · Stefan Koch · Toshiro Kodera · Stefan Kokorovic · Mohsen Koohestani · Stavros Koulouridis · Viktor Krozer · Stephan Kruse · Andrzej Kucharski · Rupesh Kumar · Camilla Kärnfelt · Alexander Kölpin

L Ioan E. Lager · Jérôme Lanteri · Tuami Lasri · Gregor Lasser · David Lautru · Julien Le Kernec · Marc Le Roy · Philippe Le Thuc · Rafal Lech · Dimitri Lederer · Jae-Yeong Lee · Timothy Lee · Yoke Choy Leong · Ulrich Lewark · Changzhi Li · Chong Li · Haobo Li · Long Li · Fujiang Lin · Wei Lin · Matteo Bruno Lodi · Tian Hong Loh · Renaud Loison · Pierfrancesco Lombardo · Ignacio Esteban Lopez Delgado · Errikos Lourandakis · Fabian Lurz · Cyril Luxey · Benedikt Lösch

M Sekhar M · Alireza Madannejad · Stefano Maddio · María J. Madero-Ayora · Simon J. Mahon · Nathalie Malbert · Mohamed Malki · Deisy Mamedes · Prabhav Manchanda · Giovanni Mangraviti · Raafat R. Mansour · Mauro Marchetti · Paulo Marques · Jon Martens · Holger Maune · Markus Mayer · Agnese Mazzinghi · Francisco Medina · Francisco Mesa · Filipe Miguel Barradas · Konstantinos Mimis · Dariush Mirshekar-Syahkal · Jozef Modelski · Giuseppina Monti · Gabriel Montoro · Dominique Morche · Antonio Morini · Kevin Morris · Muriel Muller · Steve Wai Yin Mung · Hiroshi Murata · Niko Münzenrieder

N Massinissa Nabet · Srinivas Nagaraja · Harvinder Nagi · Mohammed Farouk Nakmouche · Purushothaman Narasimhan · Adam Narbudowicz · Nasrin Nasr Esfahani · Ilaria Nasso · Miguel Navarro-Cía · Haq Nawaz · Renato Negra · Philipp Neininger · Nhu-Huan Nguyen · Benjamin Nuss · Dirk Nüßler

O Morten Olavsbråten · Dragan Olcan · Matteo Oldoni · Arnaldo Oliveira · Ayodunni Oloyo · Troy Olsson · Danilo Orlando · Alicja Ossowska

P THIPAMAS PHAKAEW · Fabio Padovan · Luca Pallotta · Gustavo Pamplona Rehder · Giacomo Paolini · Youngjin Park · Romain Pascaud · Marco Pasian · Debora Pastina · Liton Chandra Paul · Sophie Paul · Dave Pedlar · José Carlos Pedro · Erika Pellegrino · Luca Pelliccia · Kang-Chun Peng · Luca Perregrini · Christian Person · Dries Peumans · Olivia Peytral-Rieu · Felipe L. Peñaranda-Foix · Gia Ngoc Phung · Anna Piacibello · Anum Pirkani · Marco Pirola · Davy Pissoort · Emmanuel Pistono · Emanuele Piuzzi · Florence Podevin · Symon K. Podilchak · Nils Pohl · Emily Porter · Benjamin Potelon · Arnaud Pothier · David Prinsloo · Dimitra Psychogiou · Vincent Puyal

Q Roberto Quaglia · Ruediger Quay · Abdul Quddious · Oscar Quevedo-Teruel · Andrea Quirini · Valdrin Qunaj

R Antonio Raffo · Shobha Ram · Rodica Ramer · Satish Ravindran · Elodie Richalot · Jae-Sung Rieh · Eric Rius · Stéphane Rochette · Hendrik Rogier · Luke Rosenberg · Uwe Rosenberg · Djebbi Roua · Chandan Roy · Amelia Rubio Bretones · Mayazzurra Ruggiano · Jorge A. Ruiz-Cruz · Pedro Rynkiewicz · Antti Räisänen

S Rola Saad · Martin Salter · Piotr Samczyński · Atsushi Sanada · David A. Sanchez-Hernandez · Philip Sanders · Paul Sangare · Alberto Santarelli · Fabrizio Santi · Prajakta Sathe · Scott Schafer · Patrick Scheele · Johann Christoph Scheytt · Lorenz-Peter Schmidt · Dominique Schreurs · Patrick Schuh · Hermann Schumacher · Daniel Segovia-Vargas · Pascale Sevigny · Xiaobang Shang · Hasan Sharifi · Victor Shatov · Usman Shehryar · Yaochun Shen · Kaustubh Rajesh Shinde · Naoki Shinohara · Uwe Siart · Manuel Sierra Castañer · Alexandre Siligaris · Lorenzo Silvestri · Guendalina Simoncini · Yoke Leen Sit · Anja Skrivervik · Robin Sloan · Souheil Ben Smida · Richard Snyder · Valentyn Solomko · Jacques Sombrin · Nutapong Somjit · Ho-Jin Song · Vito Sorianello · Jakub Sorocki · Domenico Spina · Andreas Springer · Jan Stake · Manoj Stanley · Malcolm Stevens · Almudena Suarez Rodriguez · Noriharu Suematsu · Safumi Suzuki · Oleksiy Sydoruk · Sultan Abdul Kader Syed Mohamed · Miguel Sánchez-Soriano

T Alexandru Takacs · Hara Madhav Talasila · Raja Usman Tariq · Jean-Guy Tartarin · Noriaka Tawa · Manos M. Tentzeris · Guilherme Theis · Fabian Thome · Manfred Thumm · Didier Théron · Jordi Verdú Tirado · Diane Titz · Cristiano Tomassoni · Vittorio Tornielli di Crestvolant · Éric Tournier · Ichihiko Toyoda · Tsung-Ching Tsai · Nikolaos Tsitsas

U Ingrid Ullmann · Mehmet Ünlü

V Valeria Vadalà · Alexander Valavanis · Guido Valerio · Marc Van Heijningen · Frank E. Van Vliet · Gijs Van der Bent · Benjamin Vanhouche · Giorgio Vannini · Krushna Kanth Varikuntla · Claudia Vasanelli · Andriy Vasylyev · Aleksanteri Vattulainen · Serge Verdeyme · Akhilesh Verma · Vojkan Vidojkovic · Dieff Vital · Giorgio Matteo Vitetta · Michael Vogt · Martin Vossiek · Jan Vrba · Photos Vryonides · Tân-Phu Vuong

W Christian Waldschmidt · Guoan Wang · Huei Wang · Yi Wang · Abbas Waseem · Gavin Watkins · Simon Watts · Muh-Dey Wei · Nils Weimann · Matthias Weiss · Mareike Wendelmuth · Andreas Wentzel · Abdulrahman Widaa · Matthias Wietstruck · Tudor Williams · Withawat Withayachumnankul · Steve Hang Wong · Ke Wu

X Pascal Xavier · Kai Xu

Y Felix Yanovsky · Alexander Yarovoy · Xiaochen Yu · Qiaowei Yuan · Sen Yuan

Z Dmitry Zelenchuk · Bangjie Zhang · Jinyao Zhang · Wenzhang Zhang · Xi-Bei Zhao · Yulong Zhao · Han Zhou · Kang Zhou · Anding Zhu · Simin Zhu · Vitaliy Zhurbenko · Thomas Zwick

Travel Information

GETTING TO EXCEL LONDON

Excel London is right in the heart of London's historic Royal Docks, just ten minutes from Canary Wharf and 12 minutes from the City. Excel London can be accessed through a variety of transportation means. More information at Visiting Excel | Welcome to Excel London.

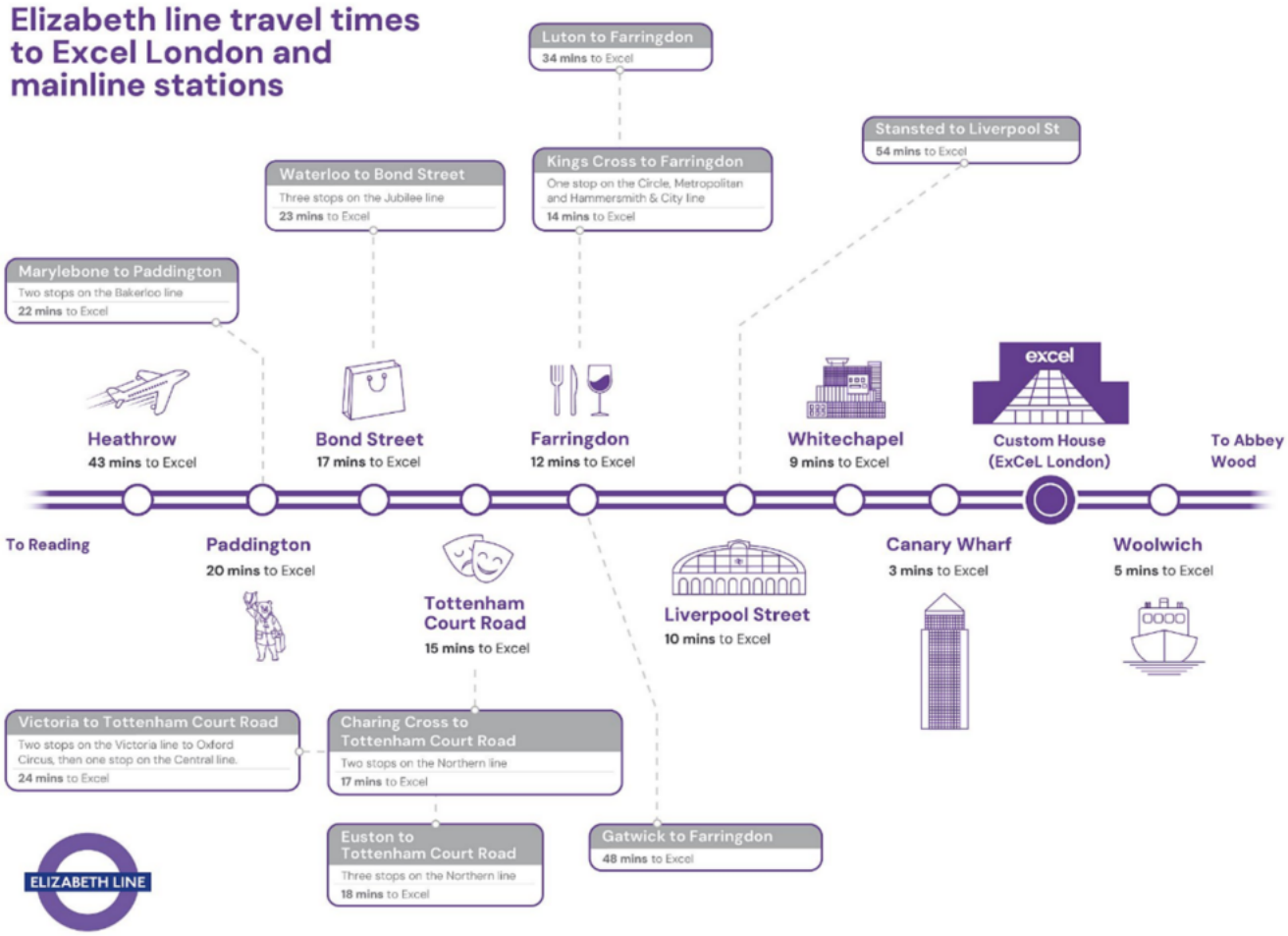
ADDRESS
Excel London
One Western Gateway
Royal Victoria Dock
London, E16 1XL
United Kingdom

BY PLANE
London is one of the best-connected cities in the world, served by six international airports, with City airport being just a short walk away.

BY TRAIN

St Pancras International railway station connects central London to mainland Europe via Eurostar services to Paris, Brussels and Amsterdam.

London is connected by rail to all major cities across the UK. Excel London is easily reached from London's mainline and Underground rail stations. The venue is served by the Elizabeth line, three DLR stations, several bus routes and the IFS Cloud Cable Car.



The Elizabeth line and DLR provide the quickest routes to Excel London. Alight at Custom House for the west entrance or Prince Regent for the east entrance to access EuMW 2026 conference centre and exhibition.

London's public transport network is divided into nine travel zones. Visitors are advised to use an Oyster card, Travelcard or contactless payment card for the best value fares. Find out more about contactless payment

BY CAR

We strongly encourage delegates to use public transport or walk where possible, to help reduce the conference's carbon impact.
If you need to travel by car or van, please use postcode E16 1FR for the car park entrance, or what3words:///cheer.events.began
For more information on travel within London, please visit: https://tfl.gov.uk/

General information on the EuMW

European Microwave Week 2026 takes place in the vibrant city of London, United Kingdom. Bringing industry and academia together, European Microwave Week 2026 is a SIX-day event, including THREE cutting-edge conferences and ONE exciting trade and technology exhibition featuring leading players from across the globe. EuMW 2026 provides access to the very latest products, research and initiatives in the microwave sector.

It also offers attendees the opportunity for face-to-face discussions with key players from across the microwave, RF, wireless and radar communities.

The 29th European Microwave Week combines:
- Three major conferences
- Workshops and Short Courses, Design and Radar Schools for students
- Tailored courses and seminars for industrialists, academics and researchers
- Europe's largest RF and Microwave trade exhibition
- Career Platform activities linking young professionals and companies searching for talent

In addition, Exhibitor Workshops and Seminars will be provided by several leading organisations with expertise in Microwave, RF, Wireless and Radar technologies.

Before the conference

CONFERENCES

Choose from three separate but complementary conferences. Spanning the length of the week, starting from Sunday 4th October 2026, the conferences and workshops are scheduled as follows:

- European Microwave Integrated Circuits Conference (EuMIC) – 5 – 6 October 2026
- European Microwave Conference (EuMC) – 6 – 8 October 2026
- European Radar Conference (EuRAD) – 7 – 9 October 2026
- The Automotive Forum (6th October 2026)
- The Defence Forum (7th October 2026)
- The 6G Forum (8th October 2026)
- The Space Forum (TBC)

The conferences encompass a wide range of subject areas including:
- Microwave, Millimetre-wave and Submillimetre-wave Systems
- Antennas and Propagation
- Wireless Technologies and Fronthaul/Backhaul Applications
- Telecommunications (RF, Microwave and Optical)
- Integrated Circuits, Semiconductor Materials and Packaging
- Radar Architectures, Systems and Subsystems
- Sensors and Remote Sensing Applications
- Testing and Measurement Techniques
- Technologies for Space Applications
- Sustainable Engineering

REGISTRATION

Online registration

Online regisartration opens in June 2026 and remains open up to and during the event.

→ visit Website

One, two or three conferences?

Delegates can register for one, two or all three of the conferences. Registration at one conference does not allow any access to other conference sessions.

EUMA MEMBERSHIP

EuMA membership can be obtained by selecting the appropriate option during registration for EuMW. Membership is valid for one year from the date the subscription is completed, and the discounted EuMW registration fees apply immediately. The EuMA membership fee is € 25 for Professionals and € 15 for Students. Members receive full electronic access to the International Journal of Microwave and Wireless Technologies. Please note that the printed version of the Journal is no longer available. EuMA also offers a three-year complimentary membership for individuals residing in NIS countries and selected African countries.

PERSONAL INVITATION
A valid passport will be required for entry into the United Kingdom. Depending on your nationality, you may also require a visa or Electronic Travel Authorisation (ETA). Participants are strongly advised to check the latest UK Government travel and visa requirements well in advance of travel. Participants are encouraged to organise travel documentation at least 3 – 4 months prior to EuMW 2026.

The organisers will be pleased to send a letter of invitation to exhibitors, conference delegates or speakers requesting it. To request this letter of invitation, please visit https://www.eumw.eu/general-information/passport-visa.

HOTEL RESERVATION
A range of hotels are available close to Excel London and throughout the city, suitable for all budgets and travel requirements. Horizon House has teamed up with Connex Hotels and Events, our official hotel booking supplier, to offer you the ability to book your accommodation for EuMW at the most competitive rates available. It is very easy to make an immediate hotel booking.

Simply visit their booking page http://www.connexhotelsandevents.com/eumw.html and make your booking, or email sally@connexhotelsandevents.com. You will find a wide range of accommodation to suit every budget. Alternatively, see the hotel booking pages within this programme.

INSURANCE
It is highly recommended that all participants carry appropriate travel and health insurance, as the organisers cannot accept liability for accidents or injuries occurring during travel to or participation in the event.

Participants should also ensure that personal belongings are adequately insured against loss, theft or damage during European Microwave Week 2026.

ELECTRICITY
Electricity is supplied at 230V, 50 Hz.

CREDIT CARDS
All major hotels and most restaurants and shops will accept credit cards. It is advisable to carry other identification as well. Visa and MasterCard are the most widely accepted cards.

During the Conference

BADGES & DELEGATE BAG
Online registrants will automatically receive their badge confirmation and registration receipt by email. Delegates who have pre-registered are requested to bring their registration confirmation to the conference, where badges can be printed onsite using the Fast Track registration facilities.

Once badges have been collected, delegates may also collect their conference bags. Conference proceedings and associated materials will be provided electronically.

The registration area will be located in Halls 22 and 23 at ExceL London, with access via the N11 entrance, and will be clearly signposted throughout the venue. Delegates who have not pre-registered will be able to register onsite using the self-service registration terminals located within the registration area. Payment can be made immediately using credit or debit cards at the card readers attached to the terminals.

Alternatively, payment can be made at the Cashier Desk if a printed receipt is required. If you have any questions regarding registration procedures or payment, please contact eumweek@mcon-mannheim.de.

REGISTRATION

On-site registration
During the event, you can also register onsite in Hall 22 – 23 , with access via the N11 entrance from Saturday 3rd October 2026 (16:00 – 19:00) and from 08:00 each morning from Sunday 4th to Friday 9th October 2026.

ON-SITE INFORMATION
The conferences will be held in different rooms over the conference dates. Please refer to the Conference Matrix at the back of this booklet for a detailed overview.

PROCEEDINGS

All papers published for presentation at the conferences will be made available electronically. To reduce environmental impact, printed proceedings and workshop notes will not be distributed.

Workshop and Short Course materials will be made available electronically to registered participants.

EXHIBITION HOURS

The exhibition area will be located in Halls 19 – 23, with access via the N11 entrance at the east end of Excel London, as shown on the floor plan in this booklet. Registered delegates will have access to the exhibition throughout the event.

The exhibition opening hours are:

- Tuesday 6th October 09:30 – 18:00 (followed by the Welcome Reception)
- Wednesday 7th October 09:30 – 17:30
- Thursday 8th October 09:30 – 16:30

Please refer to the Exhibition section of this Programme Book and visit the link on EuMW 2026 website for the latest exhibitor listings.

SOCIAL EVENTS & PARTNER PROGRAMME

Full details of social events, networking receptions, partner activities and conference dinners taking place during EuMW 2026 can be found in the Social Events & Partner Programme section of this Programme Book.

SHOPPING & SIGHTSEEING

London is one of the world's leading cultural and historical destinations, offering visitors an exceptional mix of heritage, architecture, entertainment and modern city life. From royal palaces and historic landmarks to world-renowned museums, theatres, galleries and markets, there is something to explore in every part of the city.

Visitors may wish to discover famous attractions such as Buckingham Palace, the Tower of London, the Houses of Parliament and Big Ben, the British Museum, the museums of South Kensington, the West End theatre district, and the historic maritime area of Greenwich, home to the Royal Observatory and the Prime Meridian.

The Excel London venue is also located close to Canary Wharf, Greenwich and the River Thames, offering excellent opportunities for dining, sightseeing and entertainment. For information on top attractions, tours and ideas for your stay in London, please visit www.visitlondon.com.

WI-FI

Wifi is available in the exhibition hall and conference area. Login details can be found within your delegate bag.

After the conference

EUMA KNOWLEDGE CENTRE

The EuMA Knowledge Centre contains over 20,000 of papers published under the EuMA umbrella. Full-text access is available to EuMA members, providing a valuable resource for the microwave engineering community.

Hotel Booking Form

Rooms are held on a guaranteed basis. For this reason, you are asked to supply a credit card number and full company details. If your travel plans change and you wish to cancel your accommodation, please contact Sally Garland on +44 (0)7775 744193 or email sally@connexhotelsandevents.com to avoid any non-arrival or cancellation charges, as each hotel has a different cancellation policy, full cancellation details will be clearly marked on every booking confirmation. Prepay rates are non-refundable and non-cancelable.

FOR MORE HOTEL OPTIONS AND TO RESERVE YOUR ROOM ONLINE VISIT
http://www.connexhotelsandevents.com/eumw.html
Or complete the booking form below and email to sally@connexhotelsandevents.com

Contact Name _____ Company _____

Address _____

_____

City _____ Post Code _____

Telephone _____ Fax _____

Email _____

Date of Arrival _____ Date of Departure _____

Number of rooms required

Single Room(s) _____ Twin Room(s) _____ Double Room(s) _____

First Choice Hotel _____ Second Choice Hotel _____

Guest Names _____

In order to guarantee the accommodation, please provide us with your credit card details:

Credit Card Number _____ Name on Card _____ Expiry Date ____/____

I authorise that any no show or late cancellation charges, as stipulated in the Connex booking confirmation will be charged to this credit card.

Signed _____ Date _____

Connex Hotels and Events

Tel: +44 (0)7775 744193
Email: sally@connexhotelsandevents.com

HOTEL	TO EuMW	RATES FROM*		
ALOFT LONDON HOTEL One Eastern Gateway, Royal Victoria Dock, London E16 1FR	1 minute walk	Flexible	£564.00	RO
TRAVELODGE LONDON EXCEL 1016 Dockside Road, London E16 2FQ	10 minute walk	Prepay	£140.00	RO
TRAVELODGE LONDON CITY AIRPORT Hartmann Road, Silvertown, London E16 2BZ	10 minute walk	Prepay	£140.00	RO
HOLIDAY INN EXPRESS LONDON EXCEL 1018 Dockside Road, London E16 2FQ	5 minute walk	Prepay	£239.00	B&B
DOUBLETREE BY HILTON LONDON EXCEL 2 Festoon Way, Royal Victoria Dock, London E16 1RH	6 minute walk	Prepay	£335.00	B&B
HAMPTON BY HILTON LONDON DOCKLANDS Dockside Road, London E16 2FQ	5 minute walk	Prepay	£279.00	B&B
IBIS LONDON EXCEL DOCKLANDS 9 Western Gateway, Royal Victoria Dock, London E16 1AB	15 minute walk	Prepay	£250.00	B&B
MOXY LONDON EXCEL 1014 Dockside Road, London E16 2FQ	5 minute walk	Prepay	£265.00	B&B
COURTYARD BY MARRIOTT LONDON CITY AIRPORT 10 Connaught Road, Silvertown, London E16 2AE	15 minute walk	Prepay	£210.00	B&B
LONDON CITY AIRPORT HOTEL 74 Albert Road, Silvertown, London E16 2DY	15 minute walk	Flexible	£180.00	RO

NOTES

Prepay: Room rate will be charged either at the time of booking or set period prior to arrival to the credit card used to guarantee the reservation, after this the room is non-refundable.

RO: Room rate does not include breakfast; however, breakfast is available at the hotel at an extra cost

Flexible: Room can be cancelled or amended up until a few days before arrival, individual policy will be stated on the booking confirmation

B&B: Room rate includes breakfast.

All rates quoted are based on single occupancy and include VAT at the current rate.

INTERNSHIP AWARD
RESEARCH + INDUSTRY

EARN

4500 €

KICK-START YOUR MICROWAVE CAREER!

This November 2026, the Eu*M*A Innovation Team is launching the ninth edition of the **Eu*M*A Internship Award**. Every year up to **ten awards of 4500€** each will be given to selected **Master** and **PhD students** to spend a period of at least **3 months abroad** in one of the **leading European Microwave Industries, Universities, and Research Institutes** supporting this initiative.

In addition to promote the mobility of students that would like to work in the microwave field across European Institutions, the award will also attract new talents to the hosting organizations and will help creating a larger and stronger community of microwave young professionals.

Master's & PhD students in Engineering, Computer Science, Mathematics or Physics are eligible to apply. **Scan the QR code** to explore full award details and access the application link.

WHO

PhD and Master students with a background in Engineering, Computer Science, Mathematics or Physics

WHAT

Internship abroad of at least 3 Months within 1 year from acceptance notification

WHERE

In leading **European Microwave Industries**, **Universities** and **Research Institutes**

WHEN

Submission deadline **28.11.2026**

APPLICATION PROCEDURE

I. Choose your host & **submit the online form** - by 28.11.2026

II. Hear from EuMA with **pre-acceptance** - 13.1.2027

III. **Set up an interview** with your host - by 13.4.2027

IV. Receive your **final acceptance notice** - by 30.4.2027

CONTACT & DETAILS

Web:
www.eumwa.org

Email:
internships@eumwa.org

PROMOTING EUROPEAN MICROWAVES

EUMA
EUROPEAN MICROWAVE ASSOCIATION

> Innovation TEAM

Responsible Publisher : Daryna Pesina - EuMA aisbl - Rue Louis de Geer 6 - B-1348 Louvain-la-Neuve, Belgium

Welcome to London!

A City of Heritage and Global Innovation
London is a place where nearly two millennia of history seamlessly blend with a pioneering present. The city is home to world-class museums, West End theatres, and cultural events that make it a uniquely lively and inspiring destination. A walk through the historic streets of Westminster or the vibrant South Bank immediately reveals the timeless charm that sets London apart. Yet, London offers more than just urban energy; its expansive Royal Parks, tranquil commons, and historic riverside paths provide a welcome contrast to the bustling city centre.

Capital of Science and Sustainability
The London region stands at the forefront of global innovation in science, engineering, and technology. World-leading universities, forward-thinking enterprises, and public institutions collaborate closely to develop cutting-edge solutions that enhance economic, social, and environmental well-being. The city's core focus is on creating a smarter, greener infrastructure that supports a sustainable way of living. In London, sustainability is a driving necessity, prioritising urban biodiversity, carbon reduction, and climate-conscious choices. Through this spirit of collaboration, London continues to drive progress toward a healthier and more interconnected global society.

Discover London. Where heritage and cutting-edge innovation meet.

MORE ...

If you would like more details and costs of the attractions or tours that are not linked directly, please contact Sally Garland at sally@connexhotelsandevents.com.

ELIZABETH TOWER (BIG BEN)

As one of the world's most recognisable landmarks, the Elizabeth Tower is not only a striking feature of the London skyline–it's a symbol of Britain's rich history and cultural heritage. Though you cannot easily climb its heights without prior arrangements, standing before it rewards you with a breathtaking sense of architectural grandeur. From Westminster Bridge, take in the stunning views of the historic Palace of Westminster, the winding River Thames, and the lively surrounding squares. On a clear day, the view across the river captured from the South Bank is truly unforgettable. Uncover the fascinating history of this neo-Gothic masterpiece with an expert guide or through local historical walks. Learn about its complex mechanical design, the legends woven into its past, and its central role in shaping London's modern identity.

→ visit Website

THE NATURAL HISTORY MUSEUM

Step into the Natural History Museum and be transported through billions of years of our planet's history. Nestled in Alfred Waterhouse's magnificent Romanesque Revival building in South Kensington since 1881, this iconic institution offers a captivating journey through the natural world. Wander through the awe-inspiring Hintze Hall, beneath the spectacular suspended skeleton of a blue whale. Discover world-renowned collections spanning palaeontology, mineralogy, and zoology, including the legendary dinosaur galleries and rare treasures from the Vault. Marvel at the intricate terracotta carvings depicting flora and fauna across the architecture, and behold historic specimens collected by Charles Darwin himself, bridging the gap between historical exploration and modern scientific research.

→ visit Website

ST PAUL'S CATHEDRAL

Built as an architectural triumph for the capital and designed by Sir Christopher Wren, St Paul's Cathedral is one of London's most iconic landmarks. With its magnificent English Baroque architecture and grand dome, the cathedral's interior leaves a lasting impression on all who enter. Whether you join a guided tour to explore its fascinating engineering history, climb to the Stone and Golden Galleries for panoramic city views, or simply step inside for a moment of peace and reflection, St Paul's welcomes visitors daily.

→ visit Website

DISCOVER THE ROYAL BOROUGH OF GREENWICH

Step back in time and explore the charming maritime district of Greenwich with an expert guide. Wander through its historic streets, pass through the iconic Old Royal Naval College—a masterpiece of Baroque design—and admire the remarkable Cutty Sark, the world's last surviving tea clipper. Your journey continues at the Royal Observatory, the birthplace of modern astronomy and global timekeeping. Here, you'll discover the permanent exhibitions detailing the quest for longitude and stand directly on the world-famous Prime Meridian line. After the tour, take some time to explore Greenwich's vibrant covered market and cozy riverside pubs at your own pace. When you're ready, hop on a river boat back to central London—a scenic 30-minute cruise offering spectacular views of Tower Bridge and the city skyline.

→ visit Website

HAMPTON COURT PALACE

Just outside central London, you'll

find one of the most magnificent and historically significant royal estates in the UK, standing proudly among Europe's finest palaces. A visit to Hampton Court transports you back to its glamorous and dramatic past, when it served as the luxurious playground for King Henry VIII and the Tudor elite. Step inside and experience the extraordinary opulence enjoyed by successive monarchs, surrounded by priceless tapestries, royal art collections, and centuries of political intrigue. With its majestic red-brick courtyards, grand Tudor kitchens, and elegant Baroque facades, the palace embodies the perfect vision of royal history. Rising from lush parklands, it is framed by world-famous hedge mazes, historic formal gardens, and serene riverside views—a truly enchanting sight.

→ visit Website

THE DESIGN MUSEUM

In 1989, London established a dedicated space for contemporary ingenuity, later relocating to a spectacular mid-century landmark in Kensington. It stands as a premier global institution built entirely according to the principles of cutting-edge innovation and modern design. London is internationally known as a creative capital where world-class designers and engineers have lived and worked for centuries.

→ visit Website

BOROUGH MARKET

Immerse yourself in British culinary heritage through an immersive sensory experience at Borough Market. This historic centre of taste and flavour is the place where exceptional produce, artisanal craftsmanship, and global street food come together. Learn, watch, taste, and more! A visit to London's oldest food market is the closest you will get to the heart of the capital's thriving, diverse gastronomic culture.

→ visit Website

THE SCIENCE MUSEUM

Step into the Science Museum in South Kensington and be transported through centuries of human ingenuity and technological triumph. Nestled in London's premier cultural quarter since its founding, this world-renowned institution offers a captivating journey through scientific history. Wander through spectacular, interactive galleries surrounding historic engineering milestones. Discover iconic steam engines that powered the Industrial Revolution, early computing marvels, and pioneering aerospace designs. Marvel at the deep connections between fundamental physics and modern engineering, and behold historic instruments that whisper tales of bygone eras of discovery.

→ visit Website

Social Events

Welcome Reception

Tuesday 6th October 2026
18:30 – 21:30

Location: Excel London, Royal Victoria Dock, 1 Western Gateway, London E16 1X.

Cost: Free to conference delegates & invited exhibitors.

All registered conference delegates, as well as invited representatives from companies participating in the exhibition, are invited to the EuMW 2026 Welcome Reception on Tuesday evening at the Excel London adjacent to the exhibition hall. Delegates will need to bring their badge and exhibitors their invite along with them to gain entrance. The evening will begin with drinks, followed by the General Chairs' handover from EuMW2026, London, to EuMW2027, Milan, as well as an address from the Platinum Sponsor, Keysight Technologies, marking their 25th year of support to EuMW.

EuMIC Get-Together

Monday 5th October 2026
19:00 – 22:00

Location: Galyons Royal Docks, 2 Basin Approach, London E16 2QS England

Cost: Free to EuMIC delegates, get your ticket at the EuMW Registration Desk

Following the tradition of the European Microwave Integrated Circuits Conference, delegates are invited to enjoy their Monday evening socialising in the 1880s Victorian charm of the "Galyons Royal Docks" public house which is adjacent to Galyons Reach on the Thames just a short distance from Excel London.

EuMW Delegates Lunch

Monday 5th – Friday 9th October 2026
12:50 – 14:10

Location: Hall 17 & 18, Access via entrance N11 Excel London

Cost: Free to EuMW delegates, forums, and WS/SC registered attendees.

Enjoy the daily lunches at the conference! During exhibitions days (Tuesday-Thursday) dessert and coffee will be served in the exhibition hall.

Automotive Forum Networking Dinner

Tuesday 6th October 2026
19:00 – 22:00

Location: Bokan 39. Floor 37 – 39, 40 Marsh Wall London E14 9TP

Cost: Free to Automotive Forum registered delegates.

Attendees of the Automotive Forum are invited to Bōkan 39 for food and drinks at this bar and rooftop terrace with magnificent views across London in the evening after the Forum.

Women-in-Microwaves Excursion

Tuesday 6th October 2026
14:30 – 18:00

Location: National Maritime Museum, Romney Rd, London SE10 9NF

Cost: Free for EuMW delegates, please pre-register by sending an email to wim.eumw2026@eumwa.org.

The Women in Microwaves (WiM) event, sponsored by IEEE MTT-S, continues its long-standing tradition at European Microwave Week and welcomes both women and men to participate. This year's event will include an excursion to the National Maritime Museum in historic Greenwich, offering attendees an opportunity to network in an informal setting while exploring one of the world's leading maritime museums.

Defence Forum Networking Dinner

Wednesday 7th October 2026
18:30 – 22:00

Location: Sunborn yacht, Royal Victoria Dock, London, E16 1AA, UK

Cost: Free to Defence Forum registered delegates.

Following the Defence Forum, participants are invited to an evening dinner event socialising in Sundown bar on the Sunborn Yacht located next to the Excel London, no transport needed.

EuMW 2026 Gala Event

Wednesday 7th October 2026
19:00 – 23:00

Location: London Museum Docklands; No. 1 Warehouse West India Quay; London E14 4AL

Cost: € 60 (get your ticket at registration)

Immerse yourself in 400 years of docklands history at the London Museum Docklands in West India Quay, London, to discover the history of the River Thames, the growth of the Port of London and more. Join us for an evening event, including dinner, with full rein to explore the whole Museum enabling lively and friendly interaction between as many as possible of the week's participants against this magnificent backdrop.

Radar Interchange

Thursday 8th October 2026
19:00 – 22:00

Location: Fremantle Bar & Kitchen Royal Victoria Dock, London, E16 1AL

Cost: Free to EuRAD delegates.

Participants of EuRAD are invited to a social event at a venue just a short walk from the Excel, at which food and drinks can be enjoyed whilst networking and spending time in an relaxed and comfortable environment.

Workshops and Short Courses

Despite the organiser's best efforts to ensure the availability of all listed workshops and short courses, the list below may be subject to change. Also workshop numbering is subject to change. Please refer to www.eumw.eu at the time of registration for final workshop availability and numbering.

Code	Time	Conf.	Title
Sunday 4 October 2026			
SS-01	Half-day	EuMC	Challenges and Payoffs in Next-Generation SATCOM: Multi-Band, Multi-Orbit, Multi-Constellation Ground Terminals
SS-02	Full day	EuMIC	Fundamentals of Microwave PA Design
WS-01	Full day	EuMC	Additive Manufacturing of Microwave Components and Systems
WS-02	Full day	EuMC	Accurate Signals, Linear Amplifiers: Measurement Techniques from RF to Sub-THz
WS-03	Full day	EuMC	Advances in microwave to THz biomedical sensing and imaging: application to skin and breast cancer
WS-04	Full day	EuMC	Antenna Technologies for Non-Terrestrial Networks and SATCOM Terminals
WS-05	Full day	EuMC	Current Trends in MMW and THz components
WS-06	Full day	EuMC	Advanced power sensing for frequencies above 140GHz
WS-07	Full day	EuMC	Advances in cryogenic microwave design and measurement techniques of superconducting and spin qubits
WS-08	Full day	EuMC	Advances in AI-Driven Microwave Design: From devices up to system-level
WS-09	Full day	EuMC/EuMIC	Advanced IC Design for mm-Wave and Beyond
WS-10	Full day	EuMC/EuMIC	Exploring the Innovative Technologies and Circuits Driving the Transition to 6G
WS-11	Half-day	EuMC	Emerging components for sub-terahertz 6G applications
Monday 5 October 2026			
SM-01	Half-day	EuMC	Modern SatCom Waveforms and Payload Performance: Linearity, PAPR, Spectrum Compliance , and Advanced Signal Analysis
SM-02	Half-day	EuMC	Harnessing Phase Information to Improve RF Measurements
WM-01	Full day	EuMC	On-Wafer Microwave Measurement Techniques for 6G and beyond
WM-02	Half-day	EuMC	Open-source Toolchain in RF and Digital Design
WM-03	Full day	EuMC	Photonic Technologies and Systems for RF Applications
WM-04	Half-day	EuMC	Old Dog New Tricks: Analog Linearization of RF/Microwave Power Amplifiers for Efficient and Wideband Transmitters
WM-05	Half-day	EuMC/EuMIC	Embedding Sustainability into Electronics: A Workshop for Circuit Designers on Quantification, Implementation, and Future Technologies
WM-06	Full day	EuMC/EuMIC	Enabling Ultra-Low Noise RF Systems: Technology, Materials and Metrology
WM-07	Full day	EuMC/EuMIC	Is RF GaN-on-Si ready for prime time?
WM-08	Half-day	EuMC/EuMIC/ EuRAD	Reproducible RF & Radar Research with Open-Source Software, Testbeds, and Datasets

Code	Time	Conf.	Title
Thursday 8 October 2026			
STh-01	Half-day	EuRAD	Brief INCOMPLETE History of Radar
WTh-01	Full day	EuMC/EuMIC/ EuRAD	Active Phase Arrays: Bridging Design and Measurement for Young and Industry Professionals
Friday 9 October 2026			
SF-01	Half-day	EuRAD	Integrated Sensing and Communications: Fundamentals, State-of-the-Art and the Road Ahead
SF-02	Half-day	EuRAD	Digital Twins for Radar Systems: Modeling, Simulation, and AI Applications
SF-03	Half-day	EuRAD	Beyond Vision: 4D Radar and Sensor Fusion AI for Robust Perception
WF-01	Full day	EuRAD	Radar Research Trends for Mobility: Automotive and Beyond
WF-02	Full day	EuRAD	Distributed/Multistatic radar principles and practice
WF-03	Half-day	EuRAD	Remote Sensing for Medical Applications
WF-04	Half-day	EuRAD	Radar Technologies for Space Domain Awareness (SDA)

Registration Information

CONFERENCE REGISTRATION DETAILS

Join the global microwave and RF community at EuMW 2026. Register today and be part of the conversation shaping the future of our industry. For pricing, please see the following page.

ONLINE REGISTRATION

- All online registrations should be made at www.eumw.eu
- Registrations completed up to and including 4th September 2026 will be charged at the 'Advance Discounted Rate' and those from 5th September 2026 will be charged at the 'Standard Rate'.
- Online registration is open from mid June 2026 up to and during the event until 9th October 2025..

ONSITE REGISTRATION

Onsite registration is available during the following timeslots:

- Saturday 3 October 2026 (16:00 – 19:00)
- Sunday 4 – Thursday 8 October 2026 (08:00 – 17:00)
- Friday 9 October 2026 (08:00 – 10:00)

Onsite registration will be charged at the Standard Rates.

HOW TO REGISTER

If you have any questions regarding registration procedures and payment, please email:

- Conference Registration questions: eumweek@mcon-mannheim.de
- Exhibition Registration questions: exhibitionreg@eumweek.com

REGISTER ONLINE AT WWW.EUMW.EU

- Delegates can register for one, two or all three of the conferences.
- Discounts will be given to those registering for two or more conferences.
- Payment can be made online using Amex, Visa, Mastercard or Bank Transfer.
- Registrants paying by Credit Card will be sent an automatic email confirmation, with a receipt and badge barcode.
- Registrants choosing to pay by Bank Transfer will receive their confirmation, but their receipt and badge barcode will be sent only once payment has been received and cleared by Horizon House.
- Bring your receipt, barcode and photo ID with you to the event.
- Go to the Fast Track Check In Desk and print out your badge.

Please note: NO badges will be mailed out prior to the event.

ONSITE REGISTRATION

- The registration area will be as signposted.
- There will be Self Service terminals in the registration area where delegates can enter their details and pay immediately by swiping their credit cards through the readers attached to the terminals.
- Delegates can also choose to 'Pay at Cashier' and then proceed to the Cashier Point and pay using credit cards. Receipts will be given accordingly.

For any questions, please email:
eumweek@mcon-mannheim.de
(conference) or
exhibitionreg@eumweek.com
(exhibition)

Registration Fees

Get the most out of this year's Microwave Week with a Full Week ticket. Combine all three conferences with access to the Defence Forum and the 6G Forum (the Automotive Forum and the Schools are not included) as well as all the Workshops or Short Courses.

Registration at one conference does not allow access to the sessions of the other conferences.

The fees shown below are invoiced in the name and on behalf of the European Microwave Association. All payments must be in € Euros – cards will be debited in € Euros.

Lunches are included with all conference/forum and workshop registrations:

- **Sunday: lunch boxes provided to delegates**
- **Monday – Friday: delegates receive a seated 3 course lunch**

Reduced rates are offered if you have society membership to any of the following: EuMA, GAAS®, IET or IEEE. Reduced rates for the conferences are also offered if you are a Student/Senior (Full-time students 30 years or younger and Seniors 65 or older as of as of 9th October 2026).

One can apply for EuMA membership by ticking the appropriate box during registration for EuMW. Membership is valid for one year, starting when the subscription is completed. The discount for the EuMW fees applies immediately.

BECOME A MEMBER – NOW!

EuMA membership fees: Professional € 25 / year, Student € 15 / year.

Members have full e-access to the International Journal of Microwave and Wireless Technologies. The printed version of the journal is no longer available.

EUMA KNOWLEDGE CENTRE

The EuMA website has its Knowledge Centre which presently contains over 24,000 papers published under the EuMA umbrella. Full texts are available to EuMA members only, who can make as many copies as they wish, at no extra-cost.

Conferences

	ADVANCE DISCOUNTED RATE (From now up to & including 4 September 2026)				STANDARD RATE (From 5 September 2026 & Onsite)			
	Society Member* Standard	Society Member* Student/Sr.	Non-Member Standard	Non-Member Student/Sr.	Society Member* Standard	Society Member* Student/Sr.	Non-Member Standard	Non-Member Student/Sr.
1 Conference								
EuMC	€ 750	€ 230	€ 1,040	€ 320	€ 1,040	€ 320	€ 1,460	€ 450
EuMIC	€ 570	€ 190	€ 790	€ 260	€ 790	€ 260	€ 1,110	€ 370
EuRAD	€ 570	€ 190	€ 790	€ 260	€ 790	€ 260	€ 1,110	€ 370
2 Conferences								
EuMC + EuMIC	€ 1,050	€ 340	€ 1,470	€ 470	€ 1,470	€ 470	€ 2,060	€ 660
EuMC + EuRAD	€ 1,050	€ 340	€ 1,470	€ 470	€ 1,470	€ 470	€ 2,060	€ 660
EuMIC + EuRAD	€ 910	€ 300	€ 1,270	€ 420	€ 1,270	€ 420	€ 1,780	€ 590
3 Conferences								
EuMC + EuMIC + EuRAD	€ 1,320	€ 430	€ 1,840	€ 600	€ 1,840	€ 600	€ 2,580	€ 840
Full Week Ticket	€ 2,100	€ 1,270	€ 2,680	€ 1,520	€ 2,680	€ 1,520	€ 3,470	€ 1,880

Special Forums And Sessions Registration

		ADVANCED DISCOUNTED RATE (Up to & including 4 September 2026)		STANDARD RATE (From 5 September 2026 & Onsite)	
Session	**Date**	**Delegates***	**All Others****	**Delegates***	**All Others****
Automotive Forum	6 October 2026	€ 385	€ 540	€ 540	€ 755
Defence Forum	7 October 2026	€ 350	€ 490	€ 350	€ 490
6G Forum	8 October 2026	€ 385	€ 540	€ 540	€ 755
Tom Brazil Doctoral School	4 October 2026	€ 50	€ 50	€ 70	€ 70
Student School	5 October 2026	€ 50	€ 50	€ 70	€ 70
EuMW Gala Event	7 October 2026	€ 60	€ 60	€ 60	€ 60

*those registered for EuMC, EuMIC or EuRAD
**those not registered for a conference

Workshops And Short Courses

	IN COMBINATION WITH CONFERENCE REGISTRATION				WITHOUT CONFERENCE REGISTRATION			
	Society Member Standard	Society Member Student/Sr.	Non-Member Standard	Non-Member Student/Sr.	Society Member Standard	Society Member Student/Sr.	Non-Member Standard	Non-Member Student/Sr.
Half Day	€ 130	€ 100	€ 180	€ 130	€ 180	€ 130	€ 240	€ 180
Full Day	€ 190	€ 140	€ 260	€ 190	€ 260	€ 190	€ 340	€ 260

15th Tom Brazil Doctoral School of Microwaves: Short Range Radar & Phase Array Systems Design: a Hands-on Approach

Date: Sunday 4th October 2026
Room : 2
Time: 08:30 – 18:30

Organiser: Prof. Kevin Chetty, University College London, UK
Presenter: Keving Chetty & Lai Bun Loc, University College London, UK, Speaker TBC, Analogue Devices (ADI).

The European Microwave Week features the 15th Tom Brazil Doctoral School of Microwaves. It offers M.Sc. and Ph.D. students a focused series of interactive hands-on workshops in RF and microwaves that go beyond the standard conference programme.

In the hands-on workshops, attendees will learn the fundamentals of both short-range radar sensing and Phased Arrays and Beamforming for radar and communications. Learning will be through a combination of lectures that include demonstrations and hands-on implementation sessions where attendees will apply techniques using multiple modern commercial software designed radio/radar technologies.

In the morning students in teams of four will develop short range 60 GHz radar and perform practical experiments, using a Raspberry Pi-powered Dream Board.

The afternoon will be dedicated to learning Phased Arrays and Beamforming techniques focusing on using ADI's PHASER Platform which will be used, providing opportunities for demonstration and development.

Registration

Please visit (click or scan)

Further information
Only 50 participants, get your ticket in advance!

Programme

08:30 – 10:30	**Hands-on Workshop 1: Short range 60 GHz radar development Part1**
10:30 – 11:10	**Coffee Break**
11:10 – 12:50	**Hands-on Workshop 2: Short range 60 GHz radar development Part2**
12:50 – 14:10	**Lunch Break**
14:10 – 16:10	**Hands-on Workshop 3: Phased Arrays and Beamforming techniques Part1**
16:10 – 16:50	**Coffee Break**
16:50 – 18:20	**Hands-on Workshop 4: Phased Arrays and Beamforming techniques Part2**

European Microwave Student School

From Doherty to Load Modulated Balanced Amplifier: Hands-on Load-Modulated Power Amplifier Design for Efficient and Sustainable RF Systems

Date: Monday 5th October 2026
Room: 4
Time: 08:30 – 18:30

Organisers: Dr Samuel Hefford (Chair), Dr Heungjae Choi (Co-Chair), Centre for High Frequency Engineering, Cardiff University
Vincent Poisson, Technical Field Engineering Manager, Keysight Technologies

The proposed EuMW 2026 Student Design School will focus on high-efficiency microwave power amplifier design, aligned with the conference theme of sustainability. Building beyond a conventional PA fundamentals course, the school will focus on the load-modulated balanced amplifier (LMBA) as the main hands-on simulation activity, using industry-standard Keysight ADS and MACOM device model libraries, thanks to the sponsorship from both companies. The program will guide students from a baseline PA cell through balanced PA operation, injection-based load modulation, and comparison with Doherty PA architecture. Around 80% of the activity will focus on PA design and simulation, supported by short awareness sessions on layout/EM implementation and life-cycle analysis to connect efficiency, complexity, manufacturability and environmental impact within the sustainability theme of EuMW 2026.

Registration

Please visit (click or scan)

Further information
Only 50 participants, get your ticket in advance!

Schedule

08:30 – 10:30	**Introduction: High Efficiency PA Principles and single-ended PA design**
10:30 – 11:10	**Coffee Break**
11:10 – 12:50	**Balanced PA Design and Introduction to LMBA concept**
12:50 – 14:10	**Lunch Break**
14:10 – 16:10	**LMBA Implementation and Comparison with Doherty PA**
16:10 – 16:50	**Coffee Break**
16:50 – 18:30	**Layout, EM and implementation awareness, Life-Cycle Analysis awareness**

Student Design Competition

THE GAN CHALLENGE: MASTERING OFDM RADAR UNDER REAL PA NONLINEARITIES

Modern multifunction and cognitive radar systems increasingly rely on broadband transmitters capable of waveform diversity to support Integrated Sensing and Communications (ISAC).

The scenario for this competition focuses on a wideband power amplifier design to operate across multiple carrier frequencies and support systems transmitting signals with bandwidths of up to 1 GHz. Such operation places stringent requirements on transmitter linearity, especially when high-PAPR OFDM waveforms are used for sensing.

A comprehensive dataset has been collected using the NI-Emerson Vector Signal Transceiver (VST) platform, to provide participants with a realistic and challenging setting scenario. The dataset includes real measured transmit and received baseband data from a GaN power amplifier, operated under broadband radar/communication waveform conditions such as:

- Signal Bandwidth (10 MHz, 20 MHz, 50 MHz, 100 MHz, 250 MHz, 500 MHz, 750 MHz, 1GHz)
- Sampling Rate Variable up to 2 GHz
- Subset of Central Frequency (perhaps we can match those given by the supplier in the datasheet)

CHALLENGE OBJECTIVES

Participants must analyze the provided multi-carrier OFDM dataset and design a single adaptive mismatched filter/equalizer that

- Compensates for nonlinear distortions introduced by the broadband PA.
- Remains effective across multiple bandwidths and operational conditions.
- Maximizes radar detection performance (e.g. peak-to-sidelobe ratio, integrated sidelobe ratio) on the receiving end.

The resulting filter acts as a unified signal-conditioning stage, restoring radar processing gain despite PA-induced impairments such as AM/AM distortion, AM/PM distortion, memory effects, and per-subcarrier imbalances.

Teams can consist of up to 5 members and at least one member must be regularly registered as student to the conference before downloading the dataset. Data will be provided in a compressed archive protected by a password, which will be disclosed after the registration.

The archive also contains a document with the description of data format.

Each team must submit a presentation of no more of 15 slides where the proposed solutions and the results and figures are presented.

The competition technical committee will review the submitted presentations and select the finalists that should attend the conference and present their work during a dedicated special session.

The evaluation criteria are important as the rigor of the proposed solution, the selection of critical performance parameters, and the assessment of the receiver performance after the solution is implemented on the experimental data.

The winning team will be announced during the closing session of the EURAD conference and receive €1000 offered by EMERSON.

This Challenge is being supported by a team: Dries Peumans (Vrije Universiteit Brussels), Alessio Balleri (Cranfield University), Carmine Clemente (University of Strathclyde) and Raffaele Fiengo (Emerson)

Information

Deadline
The submission deadline is **1st of August 2026** and the contributions must be sent to Prof. Alessio Balleri.

Dataset
can be downloaded here.

Inspiring Leadership
A Women in Microwave Engineering Event

Date: Tuesday 6th October 2026
Room/Location: 15/offsite
Time: 13:00 – 18:00

Organisers: Noushin Karimian, Manchester Metropolitan University, UK and Dominique Scheurs, KU Leuven, Belgium

We continue the tradition of holding the Women in Microwave Engineering event, sponsored by IEEE MTT-S during the European Microwave Week. Both women and men are welcome. This year's event will take place in London, a leading global city and a world cultural capital. The event will focus on Inspiring Leadership and will end with a tour of the National Maritime Museum in Greenwich. Our invited speaker will give a presentation on her current research and success as a woman in engineering. At the end of the panel session, a visit to the National Maritime Museum will take place.

Programme

Part 1: Panel Discussion

Room: 15
Time: 13:00 – 13:30

A panel session on Inspiring Leadership

Part 2: Museum Visit

Location: National Maritime Museum, Greenwich
Time: 13:30 – 18:00

Participants will enjoy a visit to the National Maritime Museum in Greenwich, exploring one of the world's leading maritime collections. The visit will provide an informal opportunity for networking and discussion while discovering the rich history of navigation, exploration, and innovation.

Registration & Cost

This event is open exclusively to registered EuMW 2026 delegates. Advance registration is required, and places may be limited.

To attend the event, please pre-register by sending an email to wim.eumw2026@eumwa.org, subject: EuMW 2026 – attend WiE event

The event is sponsored by EuMA, IEEE Women in Microwaves and IEEE MTT-S.

Partners

EuMA EUROPEAN MICROWAVE ASSOCIATION

WOMEN IN MICROWAVES

MTT-S MHz To THz Community

Student Career Event
Connect with Leading Technology Companies!

Date: Wednesday 7th October 2026
Room: 15
Time: 11:10 – 12:50

Organiser: Rola Saad, University College London, UK

More information to follow.

Career-Focused Activities

Join us for a dedicated set of student–industry interaction

11:10 – 11:40	**Activity 1 - Careers Talk (TBC)**
11:40 – 12:10	**Activity 2 - Company Pitches**
12:00 – 12:40	**Activity 3 – Meet the employer**

Sponsors

BAE SYSTEMS

ihp

OXFORD RF

IEEE AP-S Antennas and Propagation Society

EuMA EUROPEAN MICROWAVE ASSOCIATION

Automotive Forum

Date: Tuesday 6th October 2026
Room: 14
Time: 09:00 – 18:30

Chair: Benjamin Nuss, Technical University of Munich, Germany
Co-Chairs: Martin Kunert, Radar Expert, Germany & Kostas Doris, NXP, The Netherlands & Thomas Zwick, Karlsruhe Institute of Technology, Germany

Applications like keyless entry or tire pressure monitoring systems, mobile communications and, more recently, automotive radar systems made microwave technologies a strong pillar inside the automotive world.

The first 77 GHz automotive radar sensors entered the European vehicle market in 1999. In 2019, the European Microwave Association (EuMA) for the first time organized the Automotive Forum to provide an open platform for industrial experts to discuss technical aspects, concepts and radar architectures as well as market issues in the area of microwaves in the automotive industry.

The forum consists of a good mix of technical talks and poster presentations as well as plenty of time for networking. This year's event will focus on the following topics:
1. Enabling technologies and chip design
2. Radar testing
3. Radar antennas
4. Imaging radars

The forum is mainly devoted to technical experts from automotive industry throughout the whole supply chain. Keynote speakers will present their views on special technical solutions as well as regulatory or strategic issues. Early registration is recommended.

Registration and Programme Updates

Please visit (click or scan)

Automotive Forum Networking Dinner

Tuesday 6th October 2026

19:00 – 23:00

Costs: Dinner is already included in the Automitve Forum registration fee (Please bring your badge to gain admission.)

Location off-site: Bōkan, Floor 37–39, 40 Marsh Wall, London E14 9TP

Join us for this unique event with food and drinks. You will have plenty of time to network and discuss Automotive Forum topics with other attendees in an open setting.

Automotive Forum
Programme

Session 1: Opening & Enabling Technologies

Chair: Benjamin Nuss, Technical University of Munich

09:00 – 09:25 **Radar Intelligence in Autonomous Driving: Charting the Challenges of Future Processing Architectures**
Maximilian Steiner, Mercedes-Benz, Germany

09:25 – 09:50 **Radar SoCs as Enablers for Hybrid ADAS Architectures – Decentralized to Centralized Computing**
Christian Zelger, Robert Bosch GmbH, Germany

09:50 – 10:15 **Centralized Architecture for Automotive Radar**
Farhan Bin Khalid, Infineon Technologies, Germany

10:15 – 10:40 **Beyond Antenna Count: A Unified Processing Architecture for Scalable Automotive Radar from ADAS to L2++ and AV**
Yaohui Liu, Calterah, Germany

10:40 – 11:10 **Coffee break**

Session 2: Radar Testing

Chair: Martin Kunert, Radar Expert

11:10 – 11:35 **High Fidelity System Verification Platform for Pre-Silicon Validation of 77 GHz Automotive Radar Front Ends**
Dominique Delbecq, NXP, France

11:35 – 12:00 **Bridging the Reality Gap: A Validated End-to-End Radar Simulation Pipeline for Automotive Applications**
Marcel Hoffmann, Johanna Braeunig, Christoph Kammel, Christian Schuessler, Michael Stelzig, fiveD, Germany

12:00 – 12:25 **Heimdal: A New Paradigm for Automotive Radar PTI**
Fahimeh Rafieinia, Kasra Haghighi, UniqueSec, Sweden

12:25 – 12:50 **Towards Harmonised Methods for Automotive Radar Interference Testing: Insights from the MeTARI Project**
Emil Nilsson, Radar Reticence/Halmstad University, Sweden | William Buller, Michigan Tech Research Institute, USA | Joseph Kelly, Dynamic Research, USA | Ross Friel, Halmstad University, Sweden

12:50 – 14:10 **Lunch**

Poster Presentations

Functional Adhesives in Waveguide Antennas: Many Layers of Opportunity
Ian Wang, Martin Kröger, DELO, Germany

Engineering Simulation Mileage for Automotive Radar: Concepts and Industrial Perspective
Martin Holder, Vinayak Killedar, Robert Bosch GmbH, Germany

Flexible and Scalable Next Generation SDR Systems for Radar and ISAC
Lukas Witter, Tobias Koegel, Jonas Rottinghaus, Christian Karle, Benjamin Nuss, Comsentry, Germany

White Rabbit Synchronization for 77 GHz Automotive Radar Networks
Muhammad Hashsham Chishti, Rossen Michev, Titan Yuan, Robert Bosch GmbH, Germany | Christian Waldschmidt, University of Ulm, Germany

Title TBC
Andre Giere, GM Munich GmbH, Germany

5D Surround Radar: A New Distributed Corner-Radar Architecture
Kashif Siddiq, Oxford RF, UK

Session 3: Poster Presentations & Radar Antennas Headline

Chair: Kostas Doris, NXP

14:10 – 14:35	**Waveguide-Based Antenna-in-Package Solutions Using Multilayer Waveguide (MLW) for In-Cabin Radar Applications** Abbas Vosoogh, Nils Dagås, Gapwaves, Sweden
14:35 – 15:00	**Next Generation Waveguide Antenna from 77 GHz to 140 GHz** Jerzy Kowalewsk, Huber+Suhner, Switzerland
15:00 – 15:25	**Radar Module Integration using Antenna Digital Twins** Andreas Lauer, Marta Martínez-Vázquez, Winfried Simon, IMST, Germany
15:25 – 15:45	**Poster Pitches**
15:45 – 16:10	**Poster Session**

Session 4: Imaging Radars

Chair: Thomas Zwick, Karlsruhe Institute of Technology

16:50 – 17:15	**Quo vadis Imaging Radars: How Many Channels are Necessary?** Andreas Loeffler, Aumovio, Germany
17:15 – 17:40	**Photonic Distributed RADAR for Automotive – Solving the resolution barrier** Sven Otte, Xavveo, Germany
17:40 – 18:05	**From Detection to Perception: A Novel Approach to Radar Integration for Eyes-Off Autonomy** Noam Arkind, Arbe Robotics, Israel
18:05 – 18:30	**AI based 4D Imaging Radar toward E2E Perception** Xuyang Li, Sinpro, China

The Defence Forum
Shaping the Future of Microwave Defence

Date: Wednesday 7th October 2026
Room: 12
Time: 08:45 – 18:00

Chairs: Volker Ziegler, Airbus, Germany and Patrick Scheele, Ferdinand-Braun-Institut (FBH) gGmbH, Germany

Microwave technology is the backbone of modern defence, serving as a critical pillar for radar, electronic warfare, and secure communication systems. As the battleground evolves - highlighted by the rise of drone technology - innovative microwave solutions are essential for effective detection and response. The inaugural Defence Forum creates a unique ecosystem, connecting funding bodies, industry, and academia to accelerate the translation of research into real-world defence capabilities.

The day is curated to address the most pressing challenges and advancements in the sector today with the following speakers:

- Fredrik Dicander, Strategic Planning and Development Analyst, SAAB, Sweden
- Benoit Michel, Project Officer, EDA CapTech Technologies for Components and Modules, France
- Ashutosh Kedar, Scientist and Project Director, Electronics & Radar Development Establishment, DRDO, India
- Dan Bliss, Professor, School of Electrical, Computer, and Energy Engineering, Arizona State University, USA
- Michal Grabowski , Senior Antenna Engineer, and Mateusz Burtowy , Director of Radar Systems Development Office, Pit-Radwar, Poland
- Klaus Beilenhoff, Senior Manager Strategy & Innovation, UMS, Germany

The start-up session will include pitches on innovative solutions for antenna measurements, low-cost CRPA solutions, phased array technologies, drone detection and drone-based radars from:

- Anouk Hubrechsen, CEO Antennex (The Netherlands), Prof. Amid Mehta, CEO AdaptiveAntennas (Wales), Fabian Michler, CTO Wolf Radar (Germany), Ana Peláez Pérez, CEO Maxwell Applied Technologies (Spain), Daniel Escadas, CEO RFisense (Portugal)

The exhibitor sneak-preview will feature talks on modern spectrum management, wideband direct sampling systems and RF-systems for small platforms.

- Rolland Zhang, Global Product Manager, FieldFox & Spectrum Management Software, Keysight, “Modern Spectrum Management and Direction-Finding technologies”
- Jeff Miner, Vice President and Chief Technologist for RF Systems, Spectrum Control, Shifting the Burden: “RF Front Ends in Wideband Direct Sampling Systems”
- Dean White, Senior Director of Aerospace and Defense, Qorvo, “Future European Defense Systems – RF Technology for Smaller, More Capable Platforms”

Don’t miss our featured panel discussion: “The Drone Age: How big is the role of microwaves?” which will explore the evolving importance of massive drone usage in military actions and the related challenges and opportunities for microwave systems.

Registration and Programme Updates

Please visit (click or scan)

SPONSORS

KEYSIGHT

qorvo
all around you

SPECTRUM CONTROL™

Defence Forum
Programme

08:45 – 09:00	**Welcome** Airbus & Ferdinand-Braun-Institut gGmbH Volker Ziegler & Patrick Scheele
09:00 – 09:45	**Challenges in Scalable Sensor Systems** Saab Fredrik Dicander
09:45 – 10:30	**The Spectrum Strikes Back: Resilient RF Electronics for Defence** European Defence Agency Benoit Michel
10:30 – 11:05	**Coffee Break**
11:05 – 11:50	**Advances in Phased Array Development in India: State-of-the-Art and Recent Trends** Defence Research and Development Organisation of India Ashutosh Kedar
11:50 – 12:20	**Future of RF Systems: Applications and Computational Technologies** Arizona State University Dan Bliss
12:20 – 12:50	**Advanced Microwave Architectures for Modern Radar Systems in Defence Applications** Pitradwar Michal Grabowski & Mateusz Burtów
12:50 – 13:45	**Seated Lunch**
13:45 – 14:15	**Strengthening European GaN Technology and Components Development Capability for Military Radar, EW and Communication Applications** UMS Klaus Beilenhoff
14:15 – 14:30	**New OTA Testing Methods for Scalable A&D Production** Antennex Anouk Hubrechsen
14:30 – 14:45	**Resilient GNSS: Low-Cost CRPA Solutions for Contested EM Environments** Adaptive Antennas Amid Mehta
14:45 – 15:00	**Wolf Radar – SWaP-Optimized Radar Solutions for UAV Detection** Wolf Radar Fabian Michler
15:00 – 15:15	**Advanced RF End Technologies for Next-Generation AESA Systems** Maxwell Applied Technologies Ana Peláez Pérez

Defence Forum Networking Event

Wednesday 7th October 2026
18:30 – 22:00

Costs: The event is already included in the Defence Forum registration fee (Please bring your badge to gain admission.)

Location off-site: Sunborn yacht, Royal Victoria Dock, London, E16 1AA

The Defence Forum concludes with an evening to foster meaningful connections in a relaxed, professional atmosphere. This is the ideal place to continue the day's conversations and solidify partnerships.

15:15 – 15:30	**RF-Sentinel: Mobile Detection of FPV Drone Threats** RFisense Daniel Escadas
15:30 – 15:50	**Modern Spectrum Management and Direction-Finding Technologies** Keysight Technologies Rolland Zhang
15:50 – 16:10	**RF Front Ends in Wideband Direct Sampling Systems** Spectrum Control Jeff Miner
16:10 – 16:40	**Coffee Break**
16:40 – 17:00	**Future European Defense Systems – RF Technology for Smaller, More Capable Platforms** Qorvo Dean White
17:00 – 18:00	**Panel: The Drone Age – How Big is the Role of Microwaves?**

6G Forum

Date: Thursday 8th October 2026
Room: 14
Time: 09:00 – 18:00

Organizing committee: Ulf Gustavsson (Ericsson), Chong Li (University of Glasgow), Fred van Rijs (Ampleon), Jos Berière (TNO/FNS-6G) and Bart Smolders (TU/E)

The 6G forum is a dynamic and interactive one-day event to bring you up to date with the latest developments in wireless communications. There will be interesting keynote presentations on applications, standardization, spectrum management and advanced microwave and antenna technologies. We will address the ongoing discussions on which frequency bands will be most commercially successful. In addition, there will be several live demos showing recent technological developments on the road to 6G. In addition, there will be plenty of room for discussion and networking. The event includes a networking lunch with live demo's and dinner.

Programme

6G Leading applications

09:00 – 09:30	**AI-Driven Robotics over 6G: From Connectivity to Autonomy at Scale** Ericsson Hamed Farhadi
09:30 – 10:00	**6G Use in the Hospital of the Future** Maasstad Hospital Niels Hoffmann
10:00 – 10:30	**6G – A Game Changer for Traffic Management** Swarco ITC Danny Vroemen
10:30 – 11:10	**Coffee & Networking**

Registration and Programme Updates

Please visit (click or scan)

6G Forum Networking Dinner

Thursday 8th October 2026
18:00 – 21:00

Costs: Dinner is already included in the 6G Forum registration fee (Please bring your badge to gain admission.)

Location off-site: TBC

Join us for this unique event, which includes a welcome reception and a seated dinner. You will have plenty of time to network and discuss 6G Forum topics with other attendees in an open setting.

Physical Layer Overview, Standardization & Regulation (including Deployment)

11:10 – 11:40	**How Geo-Politics Impacts Future 6G** Peira Consulting Ian Corden
11:40 – 12:10	**AI Native Architectures for 6G** Digital Catapult Kostas Katsaros
12:10 – 12:40	**Testing of 6G Hardware** Keysight Technologies Arturo Timoner
12:50 – 14:10	**Lunch & Demonstrations** Including informal (poster like) presentations

6G Technologies: Sub-6 GHz towards 7 – 24 GHz (FR1, FR3)

14:10 – 14:40	Towards Over-the-Air Testing for 6G Base Stations Ericsson Jonas Fridén
14:40 – 15:10	Highly Efficient Digital Transmitters TU Delft Leo de Vreede
15:10 – 15:40	Satcom Perspective Viasat Carolina Vigano
15:40 – 16:00	Coffee & Networking

The generations of wireless networks

6G — **Enabling a smart sustainable society ~2030**

- Extension to (sub) mmWave frequencies
- Real-time cloud computing

1 Tbps

5G — **Embracing a networked society ~2020**

- 1000 × increase in capacity
- Support for 100+ billion connections
- Below 1 ms latency

10 Gbps

4G — **Mobile broadband enhanced ~2010**

- Designed primarily for data
- IP based protocol
- True mobile broadband

100 Mbps

3G — **The foundation of mobile broadband ~2000**

- Designed for voice and data
- First mobile broadband
- Voice through circuit & Data-Packet Switching

2 Mbps

6G Technologies: 24 – 300 GHz (FR2, FR4)

16:00 – 16:30	Technologies for Radar Sensing NXP Semiconductors Maarten Lont
16:30 – 17:00	Pushing GaN Technology to the Limit with Diamond-Based Heat Extraction University of Bristol Zeina Abdallah
17:00 – 17:30	High Performance E-Band Power Amplifiers Filtronic Tudor Williams
17:30 – 18:00	Panel discussion

2G

Mobile telephony for everone ~1990

- Designed for voice
- First digital stAnd-ards (GSM, CDMA)

64 Kbps

1G

The foundation of mobile telephony ~1980

- Basic voice service
- Analog based protocols

2.4 Kbps

Space Forum
New Frontiers in Space Technologies: Opportunities, Applications, and Challenges

Date: Thursday 8th October 2026
Room: 11
Time: 09:00 - 12:50

Chair: Kamal Samanta, AMWT Ltd UK

The global space industry is seeing rapid growth, driven by innovations in satellite communications, Earth observation, navigation, sensing, autonomous systems, artificial intelligence, and space exploration. Innovative technologies and commercial enterprises are redefining the role of space infrastructure in enabling global connectivity, security, environmental monitoring, scientific inquiry, and future exploration missions.

The inaugural Space Forum within the framework of European Microwave Week (EuMW), will gather distinguished experts from industry, government, research institutes, and academia to explore the opportunities and challenges shaping the future of the space ecosystem.

The forum will focus on innovations in satellite communications and non-terrestrial networks (NTN), advanced payload technologies, software-defined and reconfigurable satellite systems, Earth observation, space situational awareness, and upcoming lunar and deep-space missions.

Presentations will emphasize the advancement of satellite communication architectures, multi-band, multi-orbit, and multi-constellation networks, improved ground terminals, robust and secure space-based communications, and the integration of space and terrestrial networks. The program will examine the impact of space weather on radio and microwave systems, along with the growing need for monitoring, forecasting, and mitigation strategies. The forum will address topics such as orbital sustainability, active debris removal, in-orbit servicing, spectrum management, interoperability, and the long-term resilience of intricate space systems.

The forum will feature keynote presentations from senior leaders and technology experts associated with leading space agencies, satellite operators, system manufacturers, research institutions, and emerging NewSpace companies, providing a unique platform for exchanging insights, fostering collaboration, and tackling the technologies, applications, and challenges that will influence the future of space exploration.

Programme Updates

Please visit (click or scan)

Space Forum

Programme

Session 1

09:00 – 09:30	Presentation TBC
09:30 – 10:00	Presentation TBC
10:00 – 10:30	Presentation TBC
10:30 – 11:10	Coffee Break

Session 2

11:10 – 11:40	Presentation TBC
11:40 – 12:10	Presentation TBC
12:10 – 12:40	Presentation TBC

MONDAY 08:30 – 10:30

ROOM	Room 10	Room 11	Room 12	Room 14
	EuMIC02 From TCAD to PDKs: Advanced Modeling of III-V HEMTs Chair: Teresa M. Martín-Guerrero[1] Co-Chair: Antonio Raffo[2] [1]Universidad de Málaga, [2]University of Ferrara	**EuMIC03** High-Frequency Mixed-Signal CMOS Components Chair: Aleks Dyskin[1] Co-Chair: Vadim Issakov[2] [1]Nvidia, [2]Technical University Braunschweig	**EuMIC04** W-Band and D-Band High-Performance Integrated Amplifiers Chair: Vojkan Vidojkovic[1] Co-Chair: Tommaso Cappello[2] [1]Eindhoven Univeristy of Technology, [2]Villanova University, USA	**EuMIC05** Gallium Nitride Power Amplifiers Chair: Rocco Giofrè[1] Co-Chair: Konstantinos Mimis[2] [1]Università di Roma Tor Vergata, [2]Sony Europe B V
08:30 – 08:50	**EuMIC02-1** TCAD-assisted analysis of large-signal dynamic trap effects in GaN HEMT power amplifiers Simona Donati Guerrieri[1], Edoardo De Ruvo[1], Fabrizio Bonani[1] [1]Politecnico di Torino	**EuMIC03-1** An 18.5GS/s Single-Core Flash ADC with Back-Gate Offset Calibration Obtaining 28.8dB SNDR at 37.2GHz Input Frequency in 22nm FD-SOI Nima Lotfi[1], Philipp Scholz[2], Friedel Gerfers[2] [1] Technische Universität Berlin, [2]Technische Universität Berlin	**EuMIC04-1** 250-nm InP/GaAsSb DHBT Technology for W- and D-Band Power Amplifiers Sara Hamzeloui[1], Mojtaba Ebrahimi Maroufi[1], Andrea Cercaci[1], Filippo Ciabattini[1], Akshay M Arabhavi[1], Olivier J. S. Ostinelli[1], Colombo R. Bolognesi[1] [1]ETH Zurich, Switzerland	**EuMIC05-1** GaN-on-Si for RF Applications: Progress, Potential and Challenges Konstantinos Mimis[1] **INDUSTRIAL KEYNOTE** [1]Sony Europe B V
08:50 – 09:10	**EuMIC02-2** Robust Extrinsic Parasitic Extraction for GaN HEMTs Using Full Bias-Range Cold-FET Optimisation Advik Bahadur[1], Justin King[1] [1]Trinity College Dublin	**EuMIC03-2** A 58-GHz Dual-Modulus 2/3 TSPC Frequency Divider in 22-nm FDSOI CMOS with Body-Bias Tuning Tetiana Baluta[1], Yerzhan Kudabay[1], Vadim Issakov[1] [1]Braunschweig Technical University	**EuMIC04-2** A 113–143 GHz Wideband Power Amplifier in 28nm CMOS Featuring 22.2% Fractional Bandwidth for Sub-THz Applications Ting-Yu Chang[1], En-Lin Hong[1], Kai-Jie Chuang[1], Yi-Wen Wang[1], Jeng-Han Tsai[2], Tian-Wei Huang[1] [1]Graduate Institute of Communication Engineering, National Taiwan University, Taiwan, [2]National Taiwan Normal University	**EuMIC05-2** A Twisted Hybrid Coupler-Based Balanced Power Amplifier in 150 nm GaN for 5G Applications Sujeevan Vigneswaran[1], Eric Kerhervé[1], Nathalie Deltimple[1], Romain Mathieu[2], Kimon Vivien[2] [1]Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, [2]UMS - United Monolithic Semiconductors
09:10 – 09:30	**EuMIC02-3** Scalable Small-Signal Modeling of 20-nm InGaAs HEMTs Using a DC-Biased Backside Field Plate Maxime Moulin[1], Sayed Ali Albahrani[1], Felix Heinz[1], Meike Schauerte[1], Arnulf Leuther[1] [1]Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics	**EuMIC03-3** A 32 GHz Analog PLL with the Second Harmonic Extraction at 64 GHz for 6G Applications in 22FDX Meghana Kadam[1], Yazan Saad Aldine[1], Vadim Issakov[1] [1]Institute for CMOS Design, Technical University Braunschweig	**EuMIC04-3** A D-band High-Power and High-Gain Stacked Power Amplifier with Modified Slotline-Based Power Combiner in 22-nm FD-SOI Huibo Wu[1], Xingcun Li[1], Shunhua Hu[1], Quanqin Liao[1], Wenhua Chen[1] [1]Tsinghua University	**EuMIC05-3** Design and Implementation of a Ka-Band GaN MMIC Series Doherty Power Amplifier Francesco Manni[1], Paolo Colantonio[1], Rocco Giofrè[1] [1]University of Rome Tor Vergata
09:30 – 09:50	**EuMIC02-4** Experimental Characterization up to 150 GHz and Scaling Effects of 0.1-µm GaAs Devices for W-Band Power Applications Antonio Mordà[1], Valeria Vadalà[1], Gianni Bosi[1], Ciro Esposito[1], Federico D'Aniello[1], Giovanni Crupi[2] [1]Università degli Studi di Milano-Bicocca, [2]Università di Messina	**EuMIC03-4** A Compact 36–64 GHz Differential VGA with Frequency-Selective Gain Control in 40-nm CMOS Zhen Yan[1], Satoshi Tanaka[1], Takeshi Yoshida[1], Minoru Fujishima[1] [1]Hiroshima University	**EuMIC04-4** A D-Band SiGe Power Amplifier with a Coupled Line-Based Four-Way Power Combiner Ibrahim Kagan Aksoyak[1], Henning Poensgen[2], Ahmet Çağri Ulusoy[2] [1]Texas Instruments, USA, [2]Karlsruhe Institute of Technology	**EuMIC05-4** A Power-Reflection Tolerant 4-W Ka-band Power Amplifier for Satellite Communications Anna Piacibello[1], Giulia Bartolotti[1], Andrea Biondi[2], Felix Mentgen[3], Vittorio Camarchia[1], Francesco Scappaviva[2] [1]Politecnico di Torino, [2]MEC s.r.l, [3]ESA / ESTEC
09:50 – 10:10	**EuMIC02-5** Enhancing PDK Accuracy Through Advanced Modeling of 0.15-µm GaN Transistors Mario Castorio[1], Gianni Bosi[2], Valeria Vadalà[2], Antonio Nanni[1], Luca Falcetta[1], Alessio Pantellini[1], Antonio Raffo[3], Giorgio Vannini[3] [1]Leonardo S.p.A., [2]University of Milano-Bicocca, [3]University of Ferrara	**EuMIC03-5** A 0.2~2.28 GHz Reconfigurable 2nd order Analog SR LPF with a Tripartite Mapping Using 40-nm Bulk CMOS Technology Cheng Xu[1], Zhuoheng Chen[1], Yun Fang[2], Xianhu Luo[1], Liang Zhang[1], Jiangan Han[1], Yunbo Rao[1], Meng Jia[1], Shangxuan Chen[1], Bo Wei[3], Xianjin Deng[1], Hao Gao[4] [1]Microsystems&Terahertz Research Center, CAEP, P.R.China, [2]Purple Mountain Lab, P.R.China, [3]Hangzhou Dianzi University, P.R.China, [4]Southeast University, P.R.China	**EuMIC04-5** A 130-165 GHz All-Common-Base Variable-Gain Amplifier with Constant OP1dB in SiGe BiCMOS Guglielmo De Filippi[1], Lorenzo Piotto[1], Francesco Svelto[2], Andrea Mazzanti[2] [1]Fondazione Chips-IT, [2]Università di Pavia	**EuMIC05-5** A High-Efficiency Doherty Power Amplifier with Enhanced Back-Off Performance Aliyari Aliyari[1], Vahid Nayyeri[1], Ahmad Ayatollahi[1], Sayyed-Hossein Javid-Hosseini[1], Paolo Colantonio[2] [1]Iran University of Science and Technology, [2]University of Rome Tor Vergata
10:10 – 10:30		**EuMIC03-6** High Linearity E-Band SPDT Switch with 1.6 dB Insertion Loss in 16 nm FinFET CMOS Technology Roee Ben-Yishay[1] [1]Mobileye, Israel	**EuMIC04-6** Wideband W Band 55 nm SiGe LNA Design Using Low Q Cells for Multi Standard Link and Metrology Applications Valérie DANELON[1], Patrice GARCIA[1], Loïc Vincent[2], Larbi Boukhezar[2], Philippe Ferrari[2] [1]STMicroelectronics, [2]Univ. Grenoble Alpes	**EuMIC05-6** A 4-W 38 GHz High Efficiency Power Amplifier Using 0.12 µm GaN HEMT Technology Xin-Hao Huang[1], Yunshan Wang[1], Huei Wang[1] [1]National Taiwan University

MONDAY 11:10 – 12:50

ROOM **Room 7 - 9**

EuMIC01
EuMIC Opening

11:10 – 11:30 Welcome Address: Opening of the European Microwave Integrated Circuits Conference 2026

Tudor Williams[1]
[1]Filtronic

11:30 – 12:10 To Measure is To Know: Innovations in Microwave Instrumentation

Jan Verspecht[1]
[1]Keysight Technologies Inc

As wireless communications, radar, and high-speed digital systems continue to push the limits of frequency, bandwidth, and integration, microwave instrumentation must evolve at an unprecedented pace. This keynote explores the innovations that are redefining how engineers measure, understand, and ultimately design modern RF and microwave systems.
We begin with the need for speed: addressing ever-increasing carrier frequencies and signal bandwidths across the measurement ecosystem. Advances in network analysis, spectrum analysis, waveform generation, power measurement, and time-domain instrumentation have enabled characterization of signals and devices that were simply inaccessible a decade ago.
Speed alone, however, is not enough. As components become more complex and highly integrated, gaining consistent insight across traditionally separate measurement domains has become a central challenge. This has driven a convergence of capabilities once spread across multiple instruments, simplifying characterization while revealing deeper system behavior. We highlight innovations such as modulation-aware network analysis and multi-channel spectrum analyzers capable of true stimulus–response measurements.
Finally, we turn to realism and design relevance: load-pull measurements under modulated operating conditions and the extraction of measurement-based behavioral models that directly link instrumentation to simulation. These capabilities, once confined to research laboratories, are rapidly becoming industrial tools–closing the loop between measurement, modeling, and design.
Together, these developments signal a fundamental shift in microwave instrumentation: from isolated measurement tools to integrated platforms for system-level insight and innovation.

12:10 – 12:50 Microwave Transformers - A Tale of Different RF Cultures

Steve Cripps[1]
[1]Cardiff University

Impedance transformation, and passive circuits that achieve it, is the top, bottom, and sides of high frequency engineering. This talk identifies three RF "cultures" that take a different approach to circuit design, and considers the question of whether more cross-fertilisation could, and should, have taken place between these separate communities. Most notably, the transformer appears to have come back into favour in millimeter-wave MMIC design but is largely absent in lower GHz hybrids and MMICs. But as the frequency drops down into the "VHF" and HF range, transformers become ubiquitous due mainly to the availability of magnetic materials such as ferrites. A quantitative comparison of the three cultural approaches to impedance matching is instructive, and primarily raises the status of the "imperfect" transformer as a useful matching element across the entire RF spectrum.

MONDAY 14:10 – 16:10

ROOM	Room 10	Room 12	Room 14	Room 17
	EuMIC06 Advanced Circuits Analysis, Simulation, and Synthesis Chair: Valeria Vadalà[1] Co-Chair: Marco Pirola[2] [1]University of Milano-Bicocca, [2]Politecnico di Torino	**EuMIC07** Millimeter-Wave Phase Shifters and Mixed-Signal Circuits Chair: Frank E. van Vliet (TBC)[1] Co-Chair: Sébastien Chartier[2] [1]TNO Defense, Safety and Security, [2]IAF-Fraunhofer: Fraunhofer Institute for Applied Solid-State Physics	**EuMIC08** Silicon-Based Circuits and Systems for Emerging Applications Chair: Gavin Watkins[1] Co-Chair: Nathalie Deltimple[2] [1]GapRF, [2]Bordeaux INP, IMS Laboratory	**EuMIC09** GaN Devices and Technologies Chair: Kenle Chen[1] Co-Chair: Chong Li[2] [1]Northeastern University, Boston, [2]University of Glasgow
14:10 – 14:30	**EuMIC06-1** Harmonic Balance Simulation of Nonlinear Circuits Driven by Pseudo-Random Modulated Signals for EVM Evaluation EL GHALI HAMOUCHI[1], Denis Barataud[1], Guillaume Neveux[1] [1]Xlim - UMR 7252 - CNRS- University of Limoges	**EuMIC07-1** D-Band Phase Shifter Using a Modified Translinear Loop for Linearized Gain and Phase Control Stefan Schönhärl[1], Albert-Marcel Schrotz[1], Manuel Koch[1], Sascha Breun[1], Robert Weigel[1], Norman Franchi[1] [1]Friedrich-Alexander-Universitat Erlangen-Nurnberg (FAU)	**EuMIC08-1** Scaling Silicon Spin Quantum Computers on the 22-nm FDSOI Platform Alberto Gomez-Saiz[1] **INDUSTRIAL KEYNOTE** [1]Quantum Motion	**EuMIC09-1** A Robust 40 V 0.12-µm GaN HEMT Technology Platform (NP12-0B) with Enhanced Power Density for RF Front-End MMICs Jung-Tao Chung[1], Pei-Ying Wu[1], Ju-Hsien Lin[1], Yu-Syuan Lin[1], Zong-Yu Lin[1], Yun-Shiuan Li[1], Chien-Rong Yu[1], Min-Yan Lin[1], Shou-Hsien Weng[1], Shao-Chang Cheng[1], Wei-Chou Wang[1], Keiichi Matsushita[1], Cheng-Kuo Lin[1] [1]Win Semiconductors
14:30 – 14:50	**EuMIC06-2** Generalized Two-Port Feedback Analysis Thomas Winslow[1] [1]MACOM	**EuMIC07-2** A W-Band Low-Gain-Variation Phase-Shifter-Embedded Frequency Tripler With 120° Phase-Shifting Range in 40-nm CMOS Chun-Sheng Lin[1], Chun-Hsing Li[1] [1]National Taiwan University	**EuMIC08-2** A 19.25 GHz VCO with -110.5 dBc/Hz for Automotive Radar with Enhanced 2-nd Harmonic Filter in 22 nm FDSOI Process Laszlo Szilagyi[1], Chi Zhang[2], Abdelaziz Ketani[2], Ahmed Fridi[2], Shafiullah Syed[2], Abdellatif Bellaouar[2] [1]GlobalFoundries, Germany, [2]GlobalFoundries, USA	**EuMIC09-2** High-Frequency Performance AlN/GaN HEMTs with sub-100 nm Gate Lengths Patrick Jonsson[1], David Adolph[1], Niklas Rorsman[1] [1]Chalmers University of Technology
14:50 – 15:10	**EuMIC06-3** On the Incompleteness of the WSProbe-Based Large-Signal Ohtomo Test Sergio Colangeli[1], Walter Ciccognani[1], Patrick Ettore Longhi[1], Ernesto Limiti[1] [1]University of Roma Tor Vergata	**EuMIC07-3** A 7-Bit 360° Ka-Band Phase Shifter Using Multifunctional Coupled Resonators in 90-nm CMOS Pin-Chun Chiu[1], Chun-Sheng Lin[1], I-Chen Lu[1], Chun-Hsing Li[1] [1]National Taiwan University	**EuMIC08-3** A Fully Integrated Dual-Band Transmitter MMIC for 60/120 GHz FMCW Radar Darina Abdyusheva[1], Maximilian Schröder[2], Bent Walther[2], Thomas Musch[2], Marcel van Delden[2] [1]Ruhr-University Bochum, Germany , [2]Ruhr-University Bochum, Germany	**EuMIC09-3** 15 W/mm Output Power Density AlGaN-GaN HEMTs on the Epitaxy with Ultra Thin Buffer for X-Band Applications Emirhan URFALI[1], Turkan Gamze Ulusoy Ghobadi[1], Yunus Erdem Aras[1], Ekmel Özbay[1] [1]Nanotechnology Research Center (NANOTAM), Bilkent University
15:10 – 15:30	**EuMIC06-4** Efficient pixelated EM topology optimization for the design of broad-band symmetric MMIC Wenjun Zhang[1], Marco Pirola[1], Chiara Ramella[1], Qi-Jun Zhang[2] [1]Politecnico di Torino, [2]Carleton University / Politecnico di Torino	**EuMIC07-4** A 1.9-2.4-dB NF Ka-Band Receive Beamformer IC with Transmit-Leakage Suppression for SATCOM Applications Boce Lin[1], Zhuoran Li[1], Basem Abdelaziz Abdelmagid[1], Mohamed Eleraky[1], Hangxing Liu[1], Marco Saif[1], Alessandro Novello[1], Jianping Zeng[1], Maxime Marchionno[1], Niccolò Villaggi[1], Giorgio Cristiano[1], Tzu-Yuan Huang[2], Thomas Burger[1], Thomas Kleier[1], Hua Wang[1] [1]ETH-Zürich, [2]ARGUS SPACE AG.	**EuMIC08-4** A 300-GHz SiGe Radar: Comparison of Frontside and Backside Radiation Enabling up to 100 GHz Tuning Range Benedikt Sievert[1], Christian Bredendiek[1], Till Ziegler-Bellenberg[1], Olga Krylova[2], Andrii Berdnykov[2], Dominic Funke[3], Klaus Aufinger[3], Nils Pohl[2], Jan Wessel[1] [1]Fraunhofer FHR, [2]Ruhr University Bochum, [3]Infineon Technologies AG	**EuMIC09-4** Optimizing Drift-Layer Doping in GaN Schottky Diodes for High-Efficiency Rectification with Wide Dynamic Range Qiu-Xuan Li[1], Yang Li[1], Ren-Pin Huang[1], Tao Liu[1], Jin-Ping Ao[1], Dominique Schreurs[2] [1]Jiangnan University, [2]KU Leuven, Belgium
15:30 – 15:50	**EuMIC06-5** A Framework for Millimeter-Wave Matching-Network Synthesis Using Compact Passive Modules and Topology Augmentation Dingan Wang[1], Manuel Koch[1], Norman Franchi[1], Robert Weigel[1] [1]FAU Erlangen-Nuremberg, Institute for Smart Electronics and Systems	**EuMIC07-5** A Power-Efficient Monolithic 45-nm Silicon Photonics C-Band Transmitter For 100ZR QSFP28 Form Factors Adel Fatemi[1], Despoina Petousi[1], Ana Pejkic[1], Saif Alnairat[1], Yagiz Nas[1], Alper Güner[1], Benjamin Wohlfeil[1], Alexandre Lassalle[1], Stevan Djordjevic[1], Hasan Al-Rubaye[2] [1]ADTRAN Networks SE, [2]University of California San Diego, USA	**EuMIC08-5** A QFN-packaged 6.4–8.4 GHz SiGe BiCMOS PA for 5G-Adv/6G with 30 dBm PSAT and 37.5% PAE Davide Pecile[1], Alberto Gambarucci[1], Stefan Kokorovic[1], Luigi Marzocchella[1], Andrea Bevilacqua[2] [1]Infineon Technologies AG, [2]University of Padova	**EuMIC09-5** Enhanced Performance of Low-Voltage (5 V) FR3 GaN-on-Si HEMTs via In-situ SiN Epitaxy Tuning Yihao Zhuang[1], Qingyun Xie[2], Siyu Liu[1], Marianne Germain[3], Jan Strate[2], Kathia Harrouche[3], Carsten Beckmann[3], Xavier Sean[4], Geok Ing Ng[1] [1]Nanyang Technological University, [2]Agency for Science, Technology and Research Singapore, [3]Soitec Belgium, [4]Soitec Singapore
15:50 – 16:10		**EuMIC07-6** A 9-bit 250-MHz Variable-Slope Digital-to-Time Converter Using Supply-Ripple Isolation With 0.92-LSB INL Zihao Lu[1], Weichen Tao[1], Liheng Lou[1], Robert Bogdan Staszewski[2], Yizhe Hu[1] [1]University of Science and Technology of China, [2]University College Dublin		**EuMIC09-6** Modeling Methods for GaN Circuits in FOWLP Packages with Quantitative Model Validation Tao Petit[1], Mohamed Bouslama[1], Stéphane Piotrowicz[1], Louiza Hamidouche[1], Quentin Lévesque[1], Benoit Lambert[2], Raphaël Sommet[3], Nicolas Delhote[3] [1]III-V Lab, [2]United Monolithic Semiconductors (UMS) , [3]XLIM - Université de Limoges

MONDAY 16:50 – 18:30

ROOM	Room 10	Room 11	Room 12	Room 17
	EuMIC10 MMIC Advanced Automated and Open-Source Design Flows Chair: Chiara Ramella[1] Co-Chair: Alessandro Cidronali[2] [1]Politecnico di Torino, [2]Alessandro Cidronali	**EuMIC11** Advanced III/V RF Components Chair: Gregor Lasser[1] Co-Chair: Ulrich Lewark[2] [1]Chalmers University of Technology, [2]IMST GmbH	**EuMIC12** Frequency Multipliers and Oscillators in Si and III-V Based Technologies Chair: Piyush Kaul[1] Co-Chair: Ingmar Kallfass[2] [1]Eindhoven University of Technology - TU/e, [2]University of Stuttgart	**EuMIC13** CMOS Devices and Technologies Chair: Alan Wong Co-Chair: Tudor Williams[1] [1]Filtronic
16:50 – 17:10	**EuMIC10-1** Open-Source Design Automation of a V-Band Low Noise Amplifier in 130 nm SiGe BiCMOS Technology Giulio Brancali[1], Giacomo Volini[1], Ethan Bernardini[1], Lorenzo Casciotti[1], Giacomo Schiavolini[1], Giulia Orecchini[1], Federico Alimenti[1] [1]University of Perugia, Italy	**EuMIC11-1** High Linearity Carrier Aggregation Architecture Using A 250nm Bootstrap GaN N-Path Filter Erez Loebl[1], Emanuel Cohen[1] [1]Faculty of Electrical Engineering, Technion, Israel	**EuMIC12-1** A W-Band Frequency Tripler in 130 nm BiCMOS with a Novel Fundamental Rejection Technique Chiara Kohl[1], Manuel Koch[1], Martin Grund[1], Kai Scheler[1], Norman Franchi[1] [1]FAU Erlangen-Nuremberg, Institute for Smart Electronics and Systems	**EuMIC13-1** A Compact Band-Selectable Bi-Directional Coupler With an Integrated Wi-Fi Filter in RF SOI CMOS Ting-Li Hsu[1], Valentyn Solomko[2], Amelie Hagelauer[1] [1]Chair of Micro and Nanosystems Technology, Technical University of Munich, [2]Infineon Technologies AG
17:10 – 17:30	**EuMIC10-2** Pareto Optimization of a 25 GHz GaN MMIC Dual-Input Envelope Tracking PA Operation Marco Badii[1], Stefano Maddio[1], Giovanni Lasagni[1], Giovanni Collodi[1], Monica Righini[1], Alessandro Cidronali[1] [1]University of Florence, Italy	**EuMIC11-2** A Tunable X-band GaN MMIC Active Notch Filter with Adjustable Rejection Sofia Mvokany[1], Ariana Kazemi[1], Laila Fighera Marzall[1], Zoya Popovic[1] [1]University of Colorado - Boulder	**EuMIC12-2** Broadband SiGe D-Band Quadrupler with Class-F Bootstrapping Caitlinn Ellis[1], Yaw Mensah[1], Christopher Snyder[1], Joseph Caezza[1], John D. Cressler[1] [1]Georgia Institute of Technology	**EuMIC13-2** Single-Chip Cryogenic Avalanche Noise Sources: Preliminary Results and Circuit Models Guendalina Simoncini[1], Ehsan Shokrolahzade[1], Giacomo Schiavolini[2], Giulia Orecchini[2], Marco Spirito[1], Federico Alimenti[2] [1]Technical University of Delft, [2]Università degli Studi di Perugia
17:30 – 17:50	**EuMIC10-3** An Open-Source Design Flow for Sub-THz RFICs: 207 GHz Low Noise Amplifier and 180 GHz Power Amplifier Atif Ali[1], Md. Shafin Hossain[1], Rupok Das[1], Sultan Mohammad Ikram[1], Farabi Ibne Jamal[2] [1]Neural Semiconductor Limited, [2]IHP - Leibniz Institute for High Performance Microelectronics	**EuMIC11-3** 1.3-W, 59%-Efficient K-band Rectifier MMICs using Cost-Effective Schottky Barrier Diodes Shinji Hara[1], Kengo Sumiya[1], Keiichi Sakuno[1], Noriyuki Tanba[1], Yasuhisa Ushida[1] [1]Nagoya University	**EuMIC12-3** Extended D-Band Frequency Quadrupler based on Harmonic Source- and Load-Pull Measurements Eric Sigle[1], Fabian Thome[1], Arnulf Leuther[1], Rüdiger Quay[1] [1]Fraunhofer IAF	**EuMIC13-3** Air-Filled Substrate Integrated Waveguide Structures in 3D Integrated Technology for D-band Applications Hajar Zidane[1], Christopher Pouzou[1], Jordan Corsi[1], Loic Vincent[2], Victor Milon[3], Cédric Durand[3], Pascal Chevalier[3], Daniel Gloria[3], Christophe Dubarry[1], Olivier Valorge[1], Jean-Daniel Arnould[1], Emmanuel Pistono[1] [1] Univ. Grenoble Alpes, [2]Grenoble INP, CIME, [3]STMicroelectronics
17:50 – 18:10	**EuMIC10-4** A Novel Fully Open-Source RFIC Design Flow for Ultra-Broadband and Low-Noise mmWave TIAs Sultan Mohammad Ikram[1], Rupok Das[1], Atif Ali[1], Md. Shafin Hossain[1], Tanjil Shivan[2], Farabi Ibne Jamal[3] [1]Neural Semiconductor Limited, [2]Ferdinand Braun Institut (FBH), [3]IHP - Leibniz Institut für innovative Mikroelektronik	**EuMIC11-4** A 10 W, 4 - 20 GHz SPDT Switch Using Stacked Transistors in a 100-nm GaN-on-SiC Technology Dominik Wrana[1], Kristina Widmer[1], Ralf Rieger[1], Patrick Schuh[1], Ralf Leberer[1] [1]Hensoldt Sensors GmbH	**EuMIC12-4** A 35.9-43 GHz 7.45-fs rms Jitter Subharmonically Injection-Locked Frequency Quadrupler Using Transformer-Coupled and SCA Techniques Po-Yuan Chen[1], Jia-Fen Tsai[1], Hong-Yeh Chang[1] [1]National Central University	**EuMIC13-4** CMOS gate spacer process optimization to boost SOI device RF/mmWave performance Yinyin Zhang Fu[1], Claire Fenouillet-Beranger[1], Jean-Pierre Raskin[2], Tadeu Mota-Frutuoso[1] [1]CEA Leti, [2]UCLouvain - RFSOI - Belgium
18:10 – 18:30	**EuMIC10-5** SKILLBridge-Driven Design Automation of a Gilbert-Cell Mixer in 130 nm SiGe BiCMOS Giulio Brancali[1], Giacomo Volini[1], Ethan Bernardini[1], Lorenzo Casciotti[1], Giacomo Schiavolini[1], Giulia Orecchini[1], Federico Alimenti[1] [1]University of Perugia, Italy	**EuMIC11-5** An Integrated V-Band Self-Synchronous Rectifier for Simultaneous WPT and Backscattering Capabilities Including a Radiating Element Marco Badii[1], Giovanni Lasagni[1], Giacomo Schiavolini[2], Stefano Maddio[1], Giulio Brancali[2], Monica Righini[1], Federico Alimenti[2], Giovanni Collodi[1], Alessandro Cidronali[1] [1]University of Florence, [2]University of Perugia	**EuMIC12-5** A Study of Schottky Gate Diode Noise in 10 GHz GaN HEMT Oscillators Franjo Mikić[1], Pratap Tumkur Renukaswamy[1], Sriram Balamurali[1], Giovanni Mangraviti[1], Jan Craninckx[1], Piet Wambacq[1] [1]imec	

TUESDAY 08:30 – 10:30

ROOM	Room 1	Room 4	Room 6	Room 13
	EuMC01 Novel Guided-Wave Structures for Microwave Applications Chair: Ke Wu[1] Co-Chair: Maurizio Bozzi[2] [1]Polytechnique Montreal, [2]University of Pavia	**EuMC02** Millimeter-Wave Circuits and Modules Chair: Jae-Sung Rieh[1] Co-Chair: Jan Stake[2] [1]Korea University, [2]Chalmers University of Technology	**EuMC03** Sustainable Microwave and Communication Technologies Chair: Mahmoud Wagih[1] Co-Chair: Wolfgang Heinrich[2] [1]University of Glasgow, [2]Ferdinand Braun Institut gGmbH (FBH), Leibniz Institut für Höchstfrequenztechnik	**EuMIC14** Silicon Based Power Amplifiers Chair: Paolo Colantonio[1] Co-Chair: Alan Wong [1]University of Rome Tor Vergata
08:30 – 08:50	**EuMC01-1** AFSIW Power Detector Module Based on a Slanted AFSIW to Microstrip Directional Coupler Antonin Arnaud[1], Anthony Ghiotto[1], Manuel Potereau[1], Laurent Carré[2], Samir Lagoug[1], Jean-Marie Pham[1] [1]Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, [2]ACTIA AEROSPACE	**EuMC02-1** 200 GHz Impedance Tuner with Quasi-Vertical GaAs Flip-Chip Varactor Diodes for Sub-Millimeter Wave Applications Louis Lukaczyk[1], Junbo Liu[1], Christopher Moore[1], Matthew Bauwens[2], Arthur Lichtenberger[1], Robert M. Weikle[1], Scott Barker[1] [1]University of Virginia, [2]Dominion MicroProbes Inc	**EuMC03-1** Printed Microstrip Resonator for Dielectric Characterization of Sustainable Paper Substrates Duncan Platt[1], Darius Jakonis[1], Peter Ankarson[1], Ioannis Petsagkourakis[1], Robert Brooke[1], Mats Sandberg[1] [1]RISE AB	**EuMIC14-1** A 40 %-PAE Power Amplifier with 2.35 W/mm² power density for Ka Band SATCOM in 55 nm SiGe BiCMOS Technology Rémi Martin[1], Sébastien Sadlo[2], Antoine Le Ravallec[2], Nathalie Deltimple[3], Anthony Ghiotto[3] [1]STMicroelectronics/Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France , [2]STMicroelectronics, France, [3]Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France
08:50 – 09:10	**EuMC01-2** A Manufacturing-Compliant Approach to Versatile SIW Cavities Based on Epoxy-filled Non-platted Through Holes Roman Gamain[1], Anthony Ghiotto[1], Tifenn Martin[2], Maxime Mortada[2] [1]Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, [2]Thales SIX GTS	**EuMC02-2** D-band GaN HEMT Load-Pull Performance Comparing TRL and mTRL Calibrations Jack Molles[1], Jerome Cheron[1], Nicholas Miller[2], Thomas Bonnen[2], Robert Jones[1], Cameron Evanovich[1], Bryan Bosworth[1], Andrew Beraro[3] [1]NIST, [2]Michigan State Univeristy, [3]Focus Microwaves, Canada	**EuMC03-2** Cradle-to-gate LCA of sub-6GHz RF Front End Module 5G for User Equipment Benjamin Vanhouche[1], Bertrand Parvais[1], Cedric Rolin[2] [1]Imec & VUB , [2]IMEC (Leuven, Belgium)	**EuMIC14-2** D-Band SiGe-Based GCPW PA with Transformer Balun Achieving 2.51% EVM under 128-QAM Luis Aruquipa Callata[1], Aniello Franzese[1], Volkan Erturk[1], Seyyid Dilek[1], Sandro Wenzel[2], Oliver Voß[2], Batuhan Sutbas[1], Corrado Carta[1] [1] IHP-Leibniz-Institut für innovative Mikroelektronik, [2]Rohde & Schwarz GmbH
09:10 – 09:30	**EuMC01-3** HTS microstrip directional coupler for broadband noise injection in a radio astronomy receiver Bahare Mohamadzade[1] [1]CSIRO	**EuMC02-3** A Frequency Doubler Operating from 200 up to 250 GHz Optimized by Harmonic Termination Lukas Gebert[1], Benjamin Schoch[1], Thomas Ufschlag[1], Sébastien Chartier[2], Sandrine Wagner[2], Ingmar Kallfass[1] [1]Institute of Robust Power Semiconductor Systems (ILH) - University of Stuttgart, [2]IAF-Fraunhofer: Fraunhofer Institute for Applied Solid-State Physics	**EuMC03-3** Life Cycle Assessment and Circularity Strategies of GaN-on-SiC Substrates for RF Max Mosig[1], Benjamin Amann[1], Ruediger Quay[1] [1]Albert-Ludwigs-Universität Freiburg	**EuMIC14-3** A 39 GHz Load-Insensitive Power Amplifier in 22nm CMOS-SOI with 23 dBm Output Power using a Compact Quadrature Hybrid Coupler Jonas Fritzin[1], Fabien Mesquita[1], Mustafa Özen[1], Magnus Nilsson[1], Olov Haapalahti[1] [1]Ericsson AB, Sweden
09:30 – 09:50	**EuMC01-4** Loss Analysis and Resonance Suppression in a Multigap-Waveguide Liquid Crystal Phase Shifter at Ka-Band Marc Späth[1], Anagha Siby[2], Robin Neuder[1], Martin Schüßler[1], Holger Maune[1], Alejandro Jiménez-Sáez[1] [1]Technical University of Darmstadt, [2]Otto von Guericke University Magdeburg	**EuMC02-4** A 220–290 GHz Differential PA in 130-nm SiGe BiCMOS with 12.6 dBm OP1dB and 5.4% PAE1dB Mete Kaan Lermi[1], Aniello Franzese[2], Seyyid Dilek[2], Franz Alwin Dürrwald[3], Batuhan Sutbas[2], Mohamed Hussein Eissa[2], Yasar Gurbuz[1], Corrado Carta[2] [1]Sabanci University, [2] IHP-Leibniz-Institut für innovative Mikroelektronik, [3]Technical University Dresden	**EuMC03-4** A Multi-Kernel Convolutional Neural Network Digital Predistortion with Partitioned Inputs for Complexity Reduction Yudai Shiota[1], Hiroto Sakaki[2], Kenjiro Nishikawa[1] [1]Kagoshima University, [2]Mitsubishi Electric Corporation	**EuMIC14-4** A Compact 114-146GHz 2-Stacked Power Amplifier Achieving 14.9dBm Output Power in 28nm CMOS Tianzhu Huang[1], Alexander Schönecker[1], Kai Scheller[1], Albert-Marcel Schrotz[1], Robert Weigel[1], Norman Franchi[1] [1]FAU Erlangen-Nuremberg, Institute for Smart Electronics and Systems
09:50 – 10:10	**EuMC01-5** A 2.59:1 Bandwidth Ridge Gap Waveguide for Space-Constrained 0.8λ - Pitch Switch Matrices Himanshu Sharma[1], Jonathan David Chisum[1] [1]University of Notre Dame, USA	**EuMC02-5** 2.7-Octave (50-330 GHz) Detector Module Using a Dielectric-Waveguide-Integrated RTD Yuma Kawamoto[1], Daniel C. Gallego[2], Santiago Gómez[2], Yosuke Nishida[3], Kazuisao Tsuruda[3], Tadao Nagatsuma[4], Alejandro Rivera-Lavado[2], Guillermo Carpintero[1] [1]Leapwave Technologies SL, Universidad Carlos III de Madrid, [2]Leapwave Technologies SL, [3]ROHM Co., Ltd., [4]The University of Tokyo	**EuMC03-5** Reconfigurable RF Power Detector Using Aperture Time of a SAR ADC Prabhav Manchanda[1], Cristina Andrei[2], Ulrich.L. Rohde[3], Matthias Rudolph[2] [1]Brandenburg Technical University Cottbus-Senftenberg, [2]Brandenburg Technical University Cottbus, Cottbus, [3]MIT Microsystems Technology Laboratories	**EuMIC14-5** A Ku-Band CMOS Power Amplifier with a Compact Interstage Matching Network for Efficient Impedance Transformation and High Gain Seungho Lee[1], Changkun Park[1] [1]Intelligent Microwave Systems Lab., Soongsil University, Republic of Korea
10:10 – 10:30		**EuMC02-6** A D-BAND CMOS-BASED TRX 4-WAY BEAMFORMER MODULE for DIGITALLY MODULATED RADAR and COMMUNICATION Meng Li[1], Yang Zhang[1], Kamil Yavuz Kapusuz[2], Sam Lemey[3], Miguel Glassee[1], Marc Bauduin[1], Claude Desset[1], Giuseppe Gramegna[1], Piet Wambacq[4] [1]IMEC, [2]IMEC and Ghent University, [3]Universiteit Gent, [4]imec / Vrije Universiteit Brussel		

TUESDAY 08:50 – 10:30

ROOM **Room 17**

EuMIC15
Integrated Millimeter-Wave Transmitters and Receivers

Chair: Ingmar Kallfass[1]
Co-Chair: Frank E. van Vliet (TBC)[2]
[1]University of Stuttgart, [2]TNO Defense, Safety and Security

08:30 – 08:50

EuMIC15-1
A K-Band 4-Element Phased-Array Receiver IC for 6G LEO SATCOM with an Interstage-Matched Cascode Gm-Boosted LNA

Jungro Lee[1], Eunchae Jo[1], Taehyeon Kim[1], Subin Lim[1], Sunwoo Kong[2], Seunghyun Jang[2], Hui Dong Lee[2], Bonghyuk Park[2], Jinseok Park[3], Seungchan Lee[1]
[1]CHONNAM NATIONAL UNIVERSITY, [2]Electronics and Telecommunications Research Institute (ETRI), [3]Ulsan National Institute of Science and Technology (UNIST), Republic of Korea

08:50 – 09:10

EuMIC15-2
A Concurrent D-Band Radar and O-Band Lidar FMCW Receiver in 45-nm CMOS-Photonics

Alex Dinkelacker[1], Zachery Bloom[1], Xinhong Du[1], Rittik Mitra[1], Clint Schow[1], James F. Buckwalter[1]
[1]University of California, Santa Barbara (UCSB)

09:10 – 09:30

EuMIC15-3
A 240-GHz PA-Last Transmitter Using Layout-Customized High-fmax Transistors and Dual-Peak YZ-Embedded Network in 40-nm CMOS

Chun-Sheng Lin[1], Wei-Zhe Su[1], Chih-Hsueh Lin[1], Chun-Hsing Li[1]
[1]National Taiwan University

09:30 – 09:50

EuMIC15-4
A Fully Integrated 250–310 GHz Transmitter and Receiver in an Advanced SiGe BiCMOS Technology

Ahmed Gadallah[1], Mesut Inac[2], Batuhan Sutbas[2], Dietmar Kissinger[3], Mohamed Eissa[2]
[1]Keysight Technologies, [2]IHP - Leibniz-Institut für innovative Mikroelektronik, [3]Ulm University, Germany

09:50 – 10:10

EuMIC15-5
A 220 to 330 GHz Dual-IF Receiver-Chip in 35-nm mHEMT Technology

Rainer Weber[1], Fabian Thome[1], Sandrine Wagner[1], Axel Tessmann[1], Arnulf Leuther[1]
[1]Fraunhofer IAF

TUESDAY 10:30 – 12:50

Best Poster Award presented at the EuMIC Closing Ceremony

Exhibition Hall

EuMIC-PO1
EuMIC Poster Session

Chair: Kamal Samanta[1]
Co-Chair: Priya Murugan KusalaKumari[2]
[1]AMWT Ltd UK, [2]University of Leeds

EuMIC-PO1-1
Coupled TCAD and 3D ANSYS Thermal Simulation for Hotspot Analysis in GaN HEMTs

Mohammed BOUSSEKRI[1], Vaidehi Vijay Painter[2], Raphaël Sommet[1], Jean-Christophe Nallatamby[1], P. Vigneshwara Raja[2]

[1]Xlim Laboratory, [2] Indian Institute of Technology Dharwad

EuMIC-PO1-2
0-110-GHz Characterization and Scalable Modeling of Integrated Thin-Film Resistors in RF Silicon Interposer Technology

Melik Yazici[1], Falk Korndörfer[1], Dirk J. Hagen[1], Dirk Wolansky[1], Yegappan Sethu[1], Mauricio Montanares[1], Farabi Ibne Jamal[1]

[1]IHP - Leibniz-Institut für innovative Mikroelektronik

EuMIC-PO1-3
A Bias-Tunable GaAs Schottky Diode Limiter with Dynamically Adjustable P1dB

Yun-seong An[1]

[1]Hanbat National University

EuMIC-PO1-4
A 3.6 ~ 57.5 GHz Variable Gain Distributed Amplifier Using Gain Cell with Triple-Cascode in 65-nm CMOS for Multi-Band Receiver Application

Jun-Han Lin[1], Yunshan Wang[1], Huei Wang[1]

[1]National Taiwan University

EuMIC-PO1-5
A 175-fs 56-GHz SSPLL with Double-Sampling Charge Pump and Divider-less Frequency Calibration

Patrick Kurth[1], Philipp Nickel[1], Chen-Chun Hsu[1], Marcel Runge[1], Urs Hecht[1], Philipp Scholz[1], Friedel Gerfers[1]

[1]Technical University Berlin

EuMIC-PO1-6
A Highly Efficient Transmit Octupler in a 130 nm SiGe Technology for the Whole D-Band

Christian Bredendiek[1], Jan Schoepfel[2], Dominic Funke[3], Jan Wessel[3]

[1]Fraunhofer FHR (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR), [2]Ruhr-University Bochum, Bochum, Germany, [3]Fraunhofer FHR

EuMIC-PO1-7
A pair of 170-250 GHz up-converter mixer with enhanced Psat and down-converter mixer with broad IF bandwidth

Yu Yan[1], Frida Strömbeck[1], Lars Svensson[1], Herbert Zirath[1]

[1]Chalmers University of Technology

EuMIC-PO1-8
Automated Combiner Design Strategy for Q-band MMIC Power Amplifier

Sergio Lopez de Pablo[1], Jordi Verdú[1], Pedro de Paco[1]

[1]Universitat Autònoma de Barcelona

EuMIC-PO1-9
Optical Modulator Tuning with N-Path Filters in 45-nm CMOS Si-Photonics SOI Process

Zachery Bloom[1], James F. Buckwalter[1], Clint Schow[1], Alex Dinkelacker[1], Xinhong Du[1], Xiangwei Kong[1]

[1]University of California, Santa Barbara (UCSB)

EuMIC-PO1-10
A 6-bit Switched-Network Phase Shifter in 0.15-µm GaAs for Sub-GHz Band Applications

Haifeng Liu[1], Weidong Kong[2], Tengfei Gu[1], Benqing Guo[3]

[1]Hebei Semiconductor Research Institute, [2]School of Electronic & Information Engineering, Harbin Institute of Technology, [3]Chengdu University of information Technology

EuMIC-PO1-11
A 9-17 GHz Symmetric CMOS DPDT Switch with High Power Capability and Low Delay Difference

Songwon Seo[1], Jaehyun Kwon[1], Seungjong Moon[1], Changkun Park[1]

[1]Intelligent Microwave Systems Lab., Soongsil University, Republic of Korea

EuMIC-PO1-12
A Compact Ku-Band Broadband GaAs Power Amplifier Using Multi-Stacked FET

li hou[1]

[1]Southeast University

EuMIC-PO1-13
Assessing the Environmental Impact of Semiconductor Technologies for mm-Wave Phased-Array Power Amplifiers

Pieter Cardinael[1], Benjamin Vanhouche[2], Cedric Rolin[3], Bertrand Parvais[2], Jean-Pierre Raskin[1]

[1]Université catholique de Louvain, [2]imec – Vrije Universiteit Brussel, [3]imec

EuMIC-PO1-14
Cryogenic RF Characterisation of FD-SOI Passive and Active Devices for LC-VCO Measurement-Based Design and Simulation

Victor Sabiá-Pereira-Carpes[1], José Lugo-Alvarez[2], Maryline Bawedin[3], Florence Sonnerat[4], Cédric Durand[4], Philippe Galy[4], Manohiaina Galal-El-Dine[4], Aurelie Bajolet[2], Benjamin Dormieu[4], Benoit Legoix[4], Franck Sabatier[2], Mikaël Cassé[2]

[1]Grenoble INP - CROMA & Université Grenoble Alpes - CEA-Leti, [2]Université Grenoble Alpes - CEA-Leti, [3]Grenoble INP - CROMA, [4]STMicroelectronics

TUESDAY 11:10 – 12:50

ROOM	Room 13	Room 17
	EuMIC16 Advanced Techniques for Linear PA Design Chair: Kevin Morris[1] Co-Chair: Pere L. Gilabert[2] [1]University of Leeds, [2]Universitat Politècnica de Catalunya	**EuMIC17** Millimeter-Wave Mixers and Power Detectors Chair: Sébastien Chartier[1] Co-Chair: Piyush Kaul[2] [1]IAF-Fraunhofer: Fraunhofer Institute for Applied Solid-State Physics, [2]Eindhoven University of Technology - TU/e
11:10 – 11:30	**EuMIC16-1** Beam-Dependent Linearization of Active Phased Arrays Using Artificial Neural Networks Ali Asghar Sharifi[1], Gabriel Montoro[1], Pere L. Gilabert[1] [1]Universitat Politecnica de Catalunya (UPC-Barcelona Tech.)	**EuMIC17-1** A Compact and Efficient Low-Voltage D-Band Darlington Up-Conversion Mixer MARZIE MOLLAALIPOUR[1] [1]Chalmers University of Technology
11:30 – 11:50	**EuMIC16-2** Performance Optimization of a GaAs HBT MMIC Doherty Power Amplifier via Active Bias Power Cell Francesco Manni[1], Chiara Ramella[2], Rocco Giofrè[1], Corrado Florian[3], Alberto Maria Angelotti[3], Gian Piero Gibiino[3], Marco Pirola[2], Paolo Colantonio[1] [1]University of Roma "Tor Vergata", [2]Politecnico di Torino, [3]University of Bologna	**EuMIC17-2** Modified Complementary Ring Mixer Driven by a Single-Ended LO with 48 dB LO-RF Isolation in 22-nm FD-SOI CMOS Adrian Arnold[1], Muh-Dey Wei[1], Renato Negra[1] [1]RWTH Aachen University, Germany
11:50 – 12:10	**EuMIC16-3** Comparison of Low-Voltage GaN-on-Si HEMT Stacked PAs for the FR3 bands with and without Active Second Harmonic Injection Konstantinos Mimis[1], Chris Clifton[1], Atsushi Yamaguchi[2], Kazumasa Kohama[2], Masayuki Shimada[2] [1]Sony Europe Limited, [2]Sony Semiconductor Solutions Corporation	**EuMIC17-3** Zero-IF Capable Single-Balanced HEMT Mixers with 2 ± 2 dB Conversion Loss from 110 to 220 GHz Patrick Umbach[1], Eric Sigle[1], Fabian Thome[1], Arnulf Leuther[1], Rüdiger Quay[1] [1]Fraunhofer IAF
12:10 – 12:30	**EuMIC16-4** Efficiency-Linearity Trade-Off in Envelope Tracking PAs for Integrated Sensing and Communication Amirmohammad Shahghasi[1], Gabriel Montoro[1], Pere Lluis Gilabert Pinal[1] [1]Universitat Politècnica de Catalunya (UPC-Barcelona Tech.), Spain	**EuMIC17-4** 120-/160-GHz High-Dynamic-Range Power Detectors in 130-nm SiGe BiCMOS Arda Ozdemir[1], Volkan Erturk[2], Seyyid Dilek[2], Asif Ali Mir[2], Batuhan Sutbas[2], Corrado Carta[2] [1]Massachusetts Institute of Technology, [2]IHP – Leibniz Institute for High Performance Microelectronics
12:30 – 12:50	**EuMIC16-5** Effect on Performance of Embedded Drivers in a Sequential LMBA for FR1 5G NR Giulia Bartolotti[1], Àngela Ciutat[2], Gabriel Montoro[2], Anna Piacibello[1], Pere L. Gilabert[2], Vittorio Camarchia[1] [1]Politecnico di Torino, Italy, [2]Universitat Politècnica de Catalunya (UPC)	**EuMIC17-5** A Broadband Antenna-Coupled Terahertz Power Detector in a 12 nm FinFET CMOS Technology Hamadi Sadkaoui[1], Marcel Andree[1], Tasnim Ben Mansour[1], Ullrich R. Pfeiffer[1] [1]University of Wuppertal

TUESDAY 11:10 – 12:50

ROOM **Room 7 - 12**

EuMW01
EuMW/EuMC Opening

11:10 – 11:15 Welcome Address: Opening of the European Microwave Week 2026

Stephen Harman[1]

[1]EuMW 2026 General Chair

11:15 – 11:25 EuMA Welcome Address

Frank van den Bogaart[1]

[1]EuMA President

11:25 – 11:30 Greetings from IEEE MTT-S President

Anding Zhu (TBC)[1]

[1]IEEE MTT-S President

11:30 – 11:35 Greetings from the EuMW 2026 Platinum Sponsor

Speaker TBC

11:35 – 11:45 Awards Ceremony – EuMA Awards

Frank E. van Vliet[1]

[1]EuMA Awards Committee Chair

11:45 – 12:15 Building-edge Additive Manufacturing Technologies: 3D Printing Landscape for Next Generation Radio Frequency Applications

Stepan Lucyszyn[1]

[1]Imperial College London, London, UK

Over the past decade, Prof. Lucyszyn and his team have been pioneering 3D printed components, circuits and subsystems that can operate in the microwave-to-terahertz spectrum for lightweight applications that include low-cost communications, radar and sensor systems. This talk will explore some of the work undertaken at Imperial College London, highlighting advantages and current challenges for commercial exploitation in next generation applications.

Prof. Lucyszyn has published 18 journal papers and six invited international conference papers relating to this work; the first article kick-started the recent innovation of 3D-printed rectangular waveguides. In 2022, for his work on 3D printing, Prof. Lucyszyn (and his team at Imperial College London) won Junkosha's inaugural Technology Innovator of the Year Award for the Microwave and Millimeter Wave category.

12:15 – 12:45 The Current State of the Art in Waveguide Technology and Trends in Application Requirements in the Near to Mid-term

Sam Brokenshire[1]

[1]Flann Microwave Ltd

Flann Microwave Ltd has been at the forefront of performance in passive waveguide instruments for the last 70 years and represents the best of modern waveguide design and manufacturing. This presentation will explore the trends in waveguide applications and the current state of the art in waveguide technology from a commercial manufacturer's perspective and show how this is likely to develop in the near- to mid-term. Key considerations will be: ongoing trends for increasing frequency; increasing specific power; and challenging environmental conditions.

12:45 – 12:50 Closing Remarks

Speaker TBC

TUESDAY 14:10 – 16:50

Best Poster Award presented at the EuMC Closing Ceremony

Exhibition Hall

EuMC-PO1
EuMC Poster Session 1

Chair: Kamal Samanta[1]
Co-Chair: Xiaochen Yu[2]
[1]AMWT Ltd UK, [2]University of Liverpool

EuMC-PO1-1
A K-Band Four-Element Eight-Beam Phased-Array Transmitter Front-End With GaN PA for LEO Satellite Communication Applications

Yuan Tao[1], Hai Xiahou[1], Xianzhe Xu[1], Kun Yan[1], Daqun Yu[1], Wenzhou Ruan[1]

[1]Nanjing Research Institute of Electronic Technology

EuMC-PO1-2
Experimental Verification of Power Consumption Reduction in Power Amplifiers Using 5G NR SSB Gate Bias Control

Yuki Takagi[1], Yuta Nakamoto[1], Takashi Hirakawa[1], Yoshichika Ohta[1]

[1]SoftBank Corp.

EuMC-PO1-3
A 2.59GHz Oscillator with β-Ga2O3 MESFET Fabricated by Mist CVD Method

Hikaru Ikeda[1], Yuji Ando[2], Hidemasa Takahashi[2], Ryutaro Makisako[2], Takeru Wakamatsu[1], Tetsuzo Ueda[2], Jun Suda[2], Katsuhisa Tanaka[1], Shizuo Fujita[1], Hidetaka Sugaya[3]

[1]Kyoto University, [2]Nagoya University, [3]Panasonic Holdings Corporation

EuMC-PO1-4
Formula-Based Exact Design of Via-Less Quadruplet Filter With a Pair of Transmission Zeros

Sanghoon Jeong[1], Juseop Lee[1]

[1]Korea University

EuMC-PO1-5
A 16.8–20.2-GHz FMCW Frequency Synthesizer with Auxiliary Amplifiers and Switch Isolation for Enhanced Chirp Linearity

Jincheng Ni[1], Zhipeng Wang[2], Zongming Duan[2]

[1]School of Electronic Information Engineering, Anhui University, China, [2]Anhui University

EuMC-PO1-6
Analysis of Reconfigurability of Coupled Dipoles Active Frequency-Selective Surface Based on GaAs MMIC

Julio Sánchez-Paredes[1], Enrique Márquez-Segura[1]

[1]Telecommunication Research Institute (TELMA), Universidad de Málaga

EuMC-PO1-7
60 GHz Liquid Crystal Polymer Bendable Band-Pass Filter

Wei-Ting Lee[1], Ho-Tsung Hung[1], Chu-Yu Chen[2], Sin-Siang Wang[1]

[1]Flexium Interconnect Inc., [2]National University of Tainan

EuMC-PO1-8
LTCC Ridge Waveguide Filters Design Method Based on Coarse Modeling and ASM

Rousslan Goulouev[1]

[1]Mini-Circuits

EuMC-PO1-9
Reconfigurable Dual-Band or Single-Band GNSS Low-Noise Amplifier Module with Out-of-Band Rejection for Aerospace Applications

Ramon Lopez La Valle[1]

[1]SENyT-UNLP

EuMC-PO1-10
Low-Loss Filtering Phase Shifter with a 97% Passband Alignment Rate

Xin Fang[1], Xiaoyu Wei[1], Jin Cheng[1], Zhentian Wu[1], Haoran Zhu[1], Kaikun Niu[1]

[1]Anhui University

EuMC-PO1-11
Seven-State Reconfigurable Intelligent Surface at X-band Using Shunt-Stub Varactor Tuning

Kaan Aktas[1], Martin Petek[2], Enrico Tolin[1], Achim Bahr[1], Francesca Vipiana[2]

[1]IMST GmbH, [2]Politecnico di Torino

EuMC-PO1-12
A Compact Planar Balun for High-Power RF Push-Pull Amplifiers in MRI Transmit Chains

Ouadie Touijer[1], Quang Minh Nguyen[1], Niklas Schwab[1], Norman Franchi[1], Georg Fischer[1]

[1]Friedrich-Alexander-Universität Erlangen-Nürnberg

EuMC-PO1-13
Flexible, Polarization-Insensitive Metamaterial Absorber Based on Resistive Ink with Tunable Resonance from L to Ka Bands

Lamyâ IBILI[1], Thierry Lacrevaz[1], Grégory Houzet[1], William Feuray[2], Nicolas Corrao[1], Gaël Depres[3], Victor Thenot[3], Tân-Phu Vuong[1]

[1]Centre de radiofréquences, optique et micro-nanoélectronique des Alpes (CROMA), UMR-CNRS 5130, [2]KNDS Ammo France, [3]Fedrigoni

EuMC-PO1-14
$Ti_3C_2T_x$ MXene-Coated 3D-Printed Waveguide Bandpass Filter in X-Band

Anne Lehoux[1], Zahra Sarpanah Sourkouhi[1], Jamal Alhourani[2], Yury Gogotsi[2], Mohammad Zarifi[3]

[1]The University of British Columbia, [2]A.J. Drexel Nanomaterials Institute and Department of Materials Science and Engineering, Drexel University, [3]The University of British Columbia, Canada

EuMC-PO1-15
Four Types of Asymmetric Microstrip Line Unit Cell Structures for Topological Waveguides

Soma Nagano[1], Tsutomu Nagayama[1], Seiji Fukushima[1], Toshio Watanabe[1]

[1]Kagoshima University

EuMC-PO1-16
Ambient RF Energy Harvesting at 5.8 GHz Using a Metasurface Lens for Self-Powered IoT Devices

Minh Thuy Le[1], Quang Chung Tran[1], Nam Ha-Van[2], Quang Trung Luu[3], Hoa Le-Minh[4], Quoc Cuong Nguyen[1], Kien Nguyen[5]

[1]Hanoi University of Science and Technology, [2]School of Electrical Engineering, Aalto University., [3]Universite Paris-Saclay, [4]Northumbria University, [5]Chiba University

TUESDAY 14:10 – 16:10

ROOM	Room 16	Room 1	Room 4	Room 6
	EuMC/EuMIC01 Special Session on Sustainability in Microwave Systems – Materials, Carbon Footprint, and Social Impact Chair: Wolfgang Heinrich[1] Co-Chair: Andreas Wentzel[1] [1]Ferdinand Braun Institut gGmbH (FBH)	**EuMC04** Advanced Non-Reciprocal Technologies for RF and Microwave Systems Chair: Wenquan Che[1] Co-Chair: Anthony Ghiotto[2] [1]South China University of Technology, [2]University of Bordeaux	**EuMC05** Terahertz Antennas Chair: Withawat Withayachumnankul[1] Co-Chair: Joachim Oberhammer [1]The University of Adelaide	**EuMC06** Advances in Quantum Technologies and Educational Initiatives Chair: Manoj Stanley[1] Co-Chair: Ulf Johannsen[2] [1]National Physical Laboratory (NPL), [2]Eindhoven University of Technology
14:10 – 14:30	**EuMC/EuMIC01-01** Optimizing Mobile Network Efficiency: A Combined AI and SoC Approach for Sustained Quality of Experience Mirel Pehadzic[1] [1]NOKIA	**EuMC04-1** RF Co-designed Nonreciprocal Filtering Hybrid With Continuously Tunable Frequency and Arbitrary Power Division Ratio Using Spatiotemporal Modulation Girdhari Chaudhary[1], Keunhoe Lee[1], Suyeon Kim[1], Palaystint Thorng[1], Jongsik Lim[2], Yongchae Jeong[1] [1]Jeonbuk National University, South Korea, [2]Soonchunhyang University, South Korea	**EuMC05-1** Wideband, High Gain D-Band Glass Antenna via LIDE 3D Structuring and 3D-Printed Mask for Selective Metallization Elizabeth Bekker[1], Michael Lootze[2], Yiyang Bao[3], David Reichenbacher[1], Luca Valenziano[1], Malte Schulz-Ruhtenberg[2], Thomas Zwick[1] [1]Karlsruhe Institute of Technology, [2]LPKF Laser& Electronics AG, [3]Institute of Microstructure Technology	**EuMC06-1** Interlaboratory Study of Cryogenic On-Wafer S Parameter Measurements of CPW Microwave Devices Lewis Manning[1], Daniel Stokes[1], Andrin Bagus[2], Fabian Thome[2], Felix Heinz[2], Francesco Fortunato[3], Helena Rodilla[3], Jan Stake[3], Nick Ridler[1], Xiaobang Shang[1] [1]National Physical Laboratory (NPL), UK, [2]Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics, [3]Chalmer University of Technology
14:30 – 14:50	**EuMC/EuMIC01-02** Environmental and Social Impact Assessment of an Envisaged FR3-band Base Station Emma Complido[1] [1]CEA Leti, Univ. Grenoble Alpes, F 38000 Grenoble, France	**EuMC04-2** Design of Silicon-Based MEMS Compact Microstrip Circulators with Interdigital-Capacitor-Enhanced Slow-Wave Structures Zichen Guo[1], Zhiyu Wang[1], Xinyu Wang[1], Annan Xu[1], Shanfu Zhou[1], Minyi Yang[1], Xi Guo[1], Jiongjiong Mo[1], Jiarui Liu[1], Faxin Yu[1] [1]Zhejiang University	**EuMC05-2** Highly-Efficient On-Chip Bow-Tie Antennas Using Localized Backside Etching at 220–320 GHz Raqibul Hasan[1], Seyyid Dilek[1], Aniello Franzese[1], Uwe Maaß[2], Batuhan Sutbas[1], Dietmar Kissinger[3], Corrado Carta[1] [1]IHP – Leibniz Institute for High Performance Microelectronics, [2]Fraunhofer IZM, Berlin, [3]Universität Ulm	**EuMC06-2** Digital Predistortion for Flux Control of Tunable Superconducting Qubits Dharun Venkateswaran[1], Felice Francesco Tafuri[1], Alisa Danilenko[1], Philip Krantz[1] [1]Keysight Technologies Inc., USA
14:50 – 15:10	**EuMC/EuMIC01-03** Sustainable Microwave Materials: from LCAs to Advanced Packaging Mahmoud Wagih[1] [1]University of Glasgow	**EuMC04-3** Design and Measurement of a 16 GHz SMD Self-Biased Ferrite Circulator Vincent Olivier[1], Vincent Laur[2], Norbert Parker-Soues[2], Laurent Roussel[3], Richard Lebourgeois[4] [1]INOVEOS SAS, [2]LABSTICC-UBO, [3]Thales Land & Air System, [4]Thales Research & Technology (TRT)	**EuMC05-3** 6G D-band LTCC Compact AiP With 2×2 Array Antenna Natsumi Minamitani[1], Saneaki Ariumi[1], Kaoru Sudo[1], Kazushige Sato[1], Kamil Yavuz Kapusuz[2], Miguel Glassee[2], Hans Suys[2], Hisao Hayafuji[1] [1]Murata Manufacturing Co., Ltd., [2]imec	**EuMC06-3** An Embedded Microwave Structure for Scalable Trapped Ion Quantum Computing Georg Frederik Riemschneider[1], Nico Weiss[1], Marvin Jäger[1], Omar Jabi[1], Cheng Yang[2], Alexander Kölpin[1] [1]Institute of High-Frequency Technology, Hamburg University of Technology, [2]Institute of Electromagnetic Theory, Hamburg University of Technology
15:10 – 15:30	**EuMC/EuMIC01-04** Carbon Footprint of an InP HBT Process Tuğana Aslan[1] [1]Research Fab Microelectronics Germany FMD	**EuMC04-4** Adapted Modeling of a Microstrip Wideband Circulator (5–7,5 GHz) Design on an All-Ferrite Substrate Marc-Antoine Francisci[1], Thierry Monédière[1], Jehison Leon-Valdes[1], Damien Passerieux[1], Laure Huitema[1] [1]Xlim - UMR 7252 - CNRS- Limoges University	**EuMC05-4** Design of Antenna-Coupled Detector Arrays in BiCMOS for High Resolution Passive Terahertz Cameras Martijn Hoogelander[1], Tom Geerling[1], Nuria LLombart Juan[1], Marco Spirito[1], Corrado Carta[2], Maria Alonso del Pino[1] [1]Delft University of Technology, [2]IHP - Leibniz-Institut für innovative Mikroelektronik	**EuMC06-4** Remote-Accessible Vector Network Analyzer Measurement System for RF/Microwave Education Maksim Kuznetcov[1], David Reid[1], Alex Don[1], Iram Shahzadi[1], Tim Drysdale[1], Symon K. Podilchak[1] [1]The University of Edinburgh
15:30 – 15:50	**EuMC/EuMIC01-05** Carbon Footprint and Critical Materials in RF Semiconductors Benjamin Vanhouche[1], Bertrand Parvais[2], Ayesha Noor[3], Cedric Rolin[1] [1]IMEC, [2]imec & VUB, [3]imec	**EuMC04-5** New Concept of Dual-Band Microstrip Ferrite Circulator Based On Wideband Configuration Vincent Olivier[1], Thierry Monédière[2], Laure Huitema[2] [1]INOVEOS SAS, [2]XLIM - CNRS - Universite de Limoges	**EuMC05-5** A 3x3 545 GHz Lensless Digitally Controlled Beam Steering Radiation Source Array in 28nm CMOS Sumeet Londhe[1], Eran Socher[1] [1]Tel Aviv University	**EuMC06-5** Teaching Wireless Power Transfer through Competitive Challenges at Bachelor level Simon Hemour[1], Pablo Pérez-Nicoli[2], Damien Blanchard[3], Sarah Reverdy[4], Sarah Reverdy[4], Jean Tomas[1] [1]Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, France, [2]Universidad de la República, , [3]Univ. Bordeaux, IUT de Bordeaux, [4]Univ. Bordeaux, Education nationale
15:50 – 16:10			**EuMC05-6** Phase Profile Optimization for High Gain-Bandwidth Transmitarray at 300 GHz Marc Zhan[1], Bilal Ouardi[1], David Demmer[1], Antonio Clemente[1] [1]CEA - LETI	

TUESDAY 14:10 – 16:10

ROOM	Room 13	Room 17
	EuMC07 AI, 3D, Miniaturized, and Quantum Technologies for Microwave Filters Chair: Miguel Sánchez-Soriano[1] Co-Chair: Pierre Blondy[2] [1]University of Alicante, [2]Xlim - UMR 7252 - CNRS- Limoges University	**EuMIC18** Recent Advances in III/V Amplifiers Chair: Corrado Carta[1] Co-Chair: Vojkan Vidojkovic[2] [1]IHP Microelectronics, [2]Eindhoven Univeristy of Technology
14:10 – 14:30	**EuMC07-1** Reconfigurability of SIW Bandpass Filters Using Switchable Liquid-Metal-Based Iris Windows Raúl García[1], Angela Coves Soler[1], Miguel Sánchez-Soriano[2], Alejandro L. Borja[3], Darío Herraiz[3], Vicente E. Boria[4] [1]Universidad Miguel Hernández de Elche, [2]University of Alicante, [3]Universidad de Castilla-La Mancha, [4] Universitat Politècnica de València	**EuMIC18-1** Switched Quadrature GaN X-band Power Amplifier for Circularly Polarised Transmission Laura Margot van Vliet[1], David Niven[2], Andrew Jones[2], Melissa Gorman[2], Simon J. Mahon[2], Frank E. van Vliet (TBC)[3] [1]TU Delft, [2]Macquarie University, [3]University of Twente
14:30 – 14:50	**EuMC07-2** A Super Miniaturized High Quality-factor Double-poles Supercavity-Mode SIW Filter Zahra Manzoor[1], Dimitrios Peroulis[1] [1]Purdue University, West Lafayette	**EuMIC18-2** A Q-band Analog Linearizer MMIC with Independent Third-Order Intermodulation Control and Tunable Delay Elements Burak Güven Özat[1], Mathias Pius Scharpf[1], Marc Günter[1], Mark Johannes Neff[1], Benjamin Schoch[1], Stefan Koch[2], Ingmar Kallfass[1] [1]Institute of Robust Power Semiconductor Systems (ILH), University of Stuttgart, [2]Tesat Spacecom GmbH & Co. KG
14:50 – 15:10	**EuMC07-3** Highly Flexible S-Band and Ku-Band Reconfigurable Filter MMICs Suitable for Microstrip Monolithic Implementation Charles Campbell[1] [1]Qorvo (USA)	**EuMIC18-3** A GaN Sensor for on-MMIC DC Current Monitoring Grace Gomez[1], Taylor Barton[1] [1]University of Colorado Boulder
15:10 – 15:30	**EuMC07-4** Superconducting MMIC Bandpass/ Bandstop Diplexer Using a Simplified Design Procedure Abdulrahman Widaa[1], Christoph Kissling[1], Oliver Kieler[1], Michael Haas[1], Johannes Kohlmann[1], Mark Bieler[1] [1]Physikalisch-Technische Bundesanstalt	**EuMIC18-4** Extended W-band Low-Noise Amplifiers in 35-nm Metamorphic High-Electron-Mobility Transistor Technology Felix Heinz[1], Arnulf Leuther[1], Fabian Thome[1] [1]Fraunhofer Institute for Applied Solid State Physics IAF
15:30 – 15:50	**EuMC07-5** Inkjet-Printed Lumped-Element Bandpass Filter Using 3D Integrated Passive Devices Carlos Pons[1], Berkay Dogan[2], Santiago Cogollos Borrás[1], Vicente E. Boria[1], Marco Guglielmi[1], Dimitra Psychogiou[2] [1]Instituto de Telecomunicaciones y Aplicaciones Multimedia, Universitat Politècnica de València, [2]School of Engineering, University College Cork, Cork, T12 K8AF, Ireland, Tyndall National Institute, Cork, T12 R5CP, Ireland	**EuMIC18-5** A Compact D-Band GaN LNA MMIC for Monolithic Transceiver Integration Thomas Zieciak[1], Philipp Neininger[1], Christian Friesicke[1], Peter Brückner[1], Rüdiger Quay[1] [1]Fraunhofer Institute for Applied Solid State Physics IAF
15:50 – 16:10	**EuMC07-6** Vector Graphics Driven Deep Learning Framework for mmWave Bandpass Filter Design Abdelrahman Elbadrawy[1], Chandan Roy[1], Ming Jian[1] [1]Huawei Technologies Canada Co.	**EuMIC18-6** Cryogenic Characterization of a Ka-Band GaN-Based LNA at Ka-band Frequencies Jiun-Jie Huang[1], Heng-Tung Hsu[2], Yi-Fan Tsao[1], Yi-Chia Cheng[1] [1]National Yang Ming Chiao Tung University, [2]National Yang Ming Chiao-Tung University

TUESDAY 16:50 – 18:30

ROOM

Room 1

EuMC08
3D Passive Components and Non-Planar Microwave Structures

Chair: Ariana L. C. Serrano[1]
Co-Chair: Nicolò Delmonte[2]
[1]Universidade de Sao Paulo, [2]Dept. of Electrical, Computer and Biomedical Engineering, University of Pavia

16:50 – 17:10

EuMC08-1
Linear-to-Circular Polarization Converter for D-Band Circular Dielectric Waveguides
Debrina Dutta[1], Abhijit Pal[1], Martin Schneider[1]
[1]Universität Bremen

17:10 – 17:30

EuMC08-2
A Compact High-Directivity Dual-Directional Coupler for 40–67 GHz Applications
Tingting Sun[1], Fuyao Song[1], Zhen Wang[2], Guanghua Shi[2], Cheng Guo[1]
[1]Xi'an Jiaotong University, [2]The 13th Research Institute of China Electronics Technology Group Corporation

17:30 – 17:50

EuMC08-3
A Phase-Matched Monolithic Orthomode Transducer via Stereolithography 3D Printing
Giacomo Giannetti[1]
[1]Max Planck Institute for Physics

17:50 – 18:10

EuMC08-4
Key Building Block Design for Dual-Band Dual Linear or Circular Polarized Combiner Applications
Uwe Rosenberg[1], Ralf Beyer[1], Thomas Sieverding[1], Peter Kneissl[2]
[1]Mician Global Engineering GbR, [2]ESA Microwave GmbH

18:10 – 18:30

EuMC08-5
Design of A Double-Ridge-Waveguide Magic-T for Ultra-Wideband Application
Peng Liu[1]
[1]Institute of Electronic Engineering of CAEP

Room 4

EuMC09
Millimeter-Wave and Terahertz Devices

Chair: Withawat Withayachumnankul[1]
Co-Chair: Jan Stake[2]
[1]The University of Adelaide, [2]Chalmers University of Technology

EuMC09-1
Sub-1-dB-Insertion-Loss Millimetre-Wave SPST Switch Based on Quasi-1D Metadevices
HAORU XING[1], HAORU XING[1]
[1]Nanyang Technological University

EuMC09-2
A Pad-Integrated Broadband THz 1 to 4 T-Marchand Hybrid Balun-Splitter Using Asymmetric Coupled Lines
Xinpeng Du[1], Marcel Andree[1], Ullrich R. Pfeiffer[1]
[1]University of Wuppertal

EuMC09-3
A Micromachined Silicon Carbide On-wafer Probe in the WR-1.5 Waveguide Band
Junbo Liu[1], Matthew Bauwens[2], Daniel Lobo[2], Michael Cyberey[1], Robert M. Weikle[1], Arthur Lichtenberger[1], Scott Barker[1]
[1]University of Virginia, [2]Dominion Microprobes, Inc

EuMC09-4
Broadband Metallized 3D Printed THz Conical Horn Antenna
Alejandro García-Tejero[1], Rico Weber[1], Seymen Yolcu[1], Dmitrij Ievlev[1], Jerzy Kowalewski[1], Dirk Götzl[1], Marco Buhmann[1], Francesco Merli[1]
[1]HUBER+SUHNER AG

EuMC09-5
Flexible metal/dielectric waveguides in D-band
Prakash Gyawali[1], Alexandre Renau[1], Ronan Cranny[2], Julien Logette[2], Stéphanie Géas[2], Antoine Baudin[2], Yanis Charif[2], Bruno Giacomini[2], Ludovic Burgnies[1], Pascal Szriftgiser[1], Guillaume Ducournau[1]
[1]Univ. Lille, [2]Axon' Cable

Room 13

EuMC10
Non-Planar Filters

Chair: Yi Wang[1]
Co-Chair: Eric Rius[2]
[1]University of Birmingham, [2]Université de Brest

EuMC10-1
Making Brick-Wall Bandstop Filters A Practical Reality
Simone Bastioli, Richard Snyder[1]
INDUSTRIAL KEYNOTE
[1]RS Microwave

EuMC10-2
Wideband Coaxial Bandpass Stub Filters Based on an Original Interconnection
Juan-Pablo Guzman Velez[1], Eric Rius[2], Jessica Bénédicto[3], Jean François Favennec[4]
[1]Lab-STICC UBO, [2]Université de Brest, [3]Lab-STICC University of Brest, [4]Lab-STICC/Bretagne INP

EuMC10-3
Inkjet-Printed 3D Circular Cavity Resonator-Based Bandpass Filters
Deepal Patil[1], Dimitra Psychogiou[2]
[1]Tyndall National Institute, [2]Tyndall National Institute, University College Cork

EuMC10-4
Miniaturization Strategies for UHF Combline Filters via Folded 3D-Printed Non-Canonical Resonators
Ramy Bouderbal[1], Gines Garcia-Contreras[1], Stefano Sirci[2], Esteban Menargues[2], Cristiano Tomassoni[3], María García-Vigueras[1]
[1]Univ. Rennes, INSA Rennes, CNRS, IETR-UMR 6164, [2]Swissto12 SA, [3]Department of Engineering, University of Perugia

EuMC10-5
Cascaded Quadruplet & Box Configuration Filters Exhibiting All Positively Coupled Resonators
Wael Fathelbab[1]
[1]Northrop Grumman Corporation

Room 17

EuMC11
Modeling of Propagation Structures and Transitions

Chair: Luca Perregrini[1]
Co-Chair: Cristiano Tomassoni[2]
[1]University of Pavia, [2]University of Perugia

EuMC11-1
Semi-Analytical Modeling of the Cutoff Frequency in Rectangular Waveguides with Rounded Corners
Samir Lagoug[1], Anthony Ghiotto[1], Eric Kerhervé[1]
[1]Univ.Bordeaux, Bordeaux INP, CNRS, IMS, UMR 5218, France

EuMC11-2
Investigation and Modelling of Cross-Talk in Multi Polymer Microwave Fiber Communication Systems
Stefan Wögerbauer[1], Lukas Ebner[1], Helmut Paulitsch[1], Michael Ernst Gadringer[1]
[1]Graz University of Technology

EuMC11-3
Dielectric Waveguide Transition Design Using Non-Parametric Shape Optimization
Archibald Wishard Rohde[1], Tinus Stander[1], Theunis S. Beukman[2]
[1]University of Pretoria, [2]Dassault Systèmes South Africa (Pty) Ltd

EuMC11-4
Crosstalk Suppression using Twisted-Pair Differential Lines in CMOS Technology for Enhanced Signal Integrity
Maksim Kuznetcov[1], Qifeng Shen[1], Jonathan Johnstone[2], Yunhao Chen[1], Symon K. Podilchak[1], Brian Frank[2], Alois Freundorfer[2], Yahia Antar[3]
[1]The University of Edinburgh, [2]Queen's University, [3]The Royal Military College of Canada

TUESDAY 16:50 – 18:30

ROOM **Room 8 - 11**

EuMIC19
EuMIC Closing

16:50 – 16:55 Session Welcome

Tudor Williams[1]
[1]Filtronic

16:55 – 17:25 RF/mmWave Silicon Enabling the SATCOM Space Race

Alan Wong

Technological advancements in satellite payloads and ground terminals, enabled by modern silicon technologies, are transforming satellite communications. Growing demand for ubiquitous connectivity, higher data rates, and lower latency is driving innovation utilizing high speed, mainstream silicon processes. These technologies are now being deployed across non geostationary orbit (NGSO) constellations, earth terminals, and emerging direct to device/handset solutions.

This presentation examines the RF and mmWave silicon circuit and system level challenges involved in closing broadband link budgets for space communications. It highlights architectures and implementations for both dedicated user terminals and direct to device satellite connectivity, illustrating how silicon integration is enabling scalable, high performance satellite networks.

17:25 – 17:55 Trends in III-V Semiconductor Design - A Component and Design Services Supplier Perspective

Merv Haynes[1]
[1]CML Micro

The pace of semiconductor development and inclusion in modern communication systems is continuing to grow. This provides both opportunities for component suppliers in the marketplace and challenges on how to meet this demand. The changing geo-political landscape and customer requirements on supply chain are providing additional complexities. This paper outlines an overview from CML Micro on the trends in the industry covering both standard component release and 3rd party bespoke design services.

17:55 – 18:15 Awards Ceremony – EuMIC Best Paper Awards

Tudor Williams[1]
[1]Filtronic

18:15 – 18:25 Closing Remarks

Tudor Williams[1]
[1]Filtronic

18:25 – 18:30 Invitation to EuMIC 2027

Ernesto Limiti[1]
[1]University of Rome Tor Vergata

WEDNESDAY 08:30 – 10:30

ROOM	Room 1	Room 4	Room 6	Room 7
	EuMC12 Active Integrated Phased Arrays and Tx/Rx Module Technologies Chair: Ulf Johannsen[1] Co-Chair: Gabriele Federico[2] [1]Eindhoven University of Technology, [2]Eindhoven University of Technology - TU/e	**EuMC13** Millimeter-Wave and THz Communication Chair: Guillaume Ducournau[1] Co-Chair: Tadao Nagatsuma[2] [1]University of Lille, [2]The University of Tokyo	**EuMC14** Components Based on Emerging Materials and Processes Chair: Pierre Blondy[1] Co-Chair: Raafat R. Mansour[2] [1]Xlim - UMR 7252 - CNRS- Limoges University, [2]University of Waterloo	**EuMC15** Integrated CMOS and GaN Power Amplifiers Chair: Vittorio Camarchia[1] Co-Chair: José Angel García[2] [1]Politecnico di Torino, [2]University of Cantabria
08:30 – 08:50	**EuMC12-1** A Scalable Q-band DBF Array Antenna Integrated Tx Module Using Manchester-Encoded 1-Bit BPDSM and Tripler Configuration Ryosei Miyagawa[1], Yuki Fujiya[1], Tomoyuki Furuichi[1], Satoshi Tsukamoto[1], Noriharu Suematsu[1] [1]Tohoku University	**EuMC13-1** E-band Radio Link utilizing a 29 dBm GaN PA demonstrated in Field Trial Mikael Hörberg[1], Klas Eriksson[1], Bharath Cimbili[2], Sining An[1], Johan Karlsson[1], Jonas Gustavsson[1], Richard Lindman[1], Torbjörn Dahl[1], Konstantinos Bitsikas[3], Konstantinos Kravariotis[3], Mingquan Bao[1], Christian Friesicke[2], Ruediger Quay[2], George Skiadas[4], Sam Agneessens[1], Martin Myhr[1] [1]Ericsson AB, [2]Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics, [3]Ericsson Greece, [4]OTE-Group of Companies	**EuMC14-1** A DC-67 GHz Phase Change Material Based SPDT Switch In a Commercial SiGe BiCMOS Process Ahmed Metwally Hegazy[1], Raafat R. Mansour[1] [1]University of Waterloo	**EuMC15-1** A 21-35GHz 23.8dB Peak Gain Three-Stacked FET Power Amplifier Based on Neutralization Inductors Using 22-nm FD-SOI CMOS Lu Xie[1], Kun Gao[1], Yudi Yang[1], Yuhang Zhang[1], Jiewen Wang[1], Shuyang Li[1], Shunhua Hu[1], Wenhua Chen[1] [1]Tsinghua University
08:50 – 09:10	**EuMC12-2** Comparison of Direct Filtering and Channel Splitting in the Context of Digital Beamforming Chiplets Nick Cancrinus[1], Yanki Aslan[1], Samer Medawar[2], Alvaro Diaz Bolado[2], Alessandro Matheoud[2], Alexander Yarovoy[1] [1]Delft University of Technology, [2]Viasat Antenna Systems	**EuMC13-2** A 100-Gbps D-Band Communication Link Using Polymer Microwave Fiber and eWLB-packaged SiGe BiCMOS Technology Haojie Chang[1], Maciej Wojnowski[2], Sining An[3], Frida Strömbeck[1], Yu Yan[1], Hartner Walter[2], Parisa Aghdam[3], Herbert Zirath[1] [1]Chalmers University of Technology, [2]Infineon Technologies AG, [3]Ericsson AB, Sweden	**EuMC14-2** Tunable Microwave Stub for Ku-Band Compact Tuners using PCM Switches Kariny Nunes Maia[1], Nicolas Parou[1], Cyril Guines[1], Julien Lintignat[1], Audrey Martin[1], Pierre Blondy[1] [1]Xlim - UMR 7252 - CNRS	**EuMC15-2** A 26.3–36.2 GHz Power Amplifier Employing Coupled-TL Feedback and an Optimized Gate Layout Yo-Sheng Lin[1], Wei-Chung Weng[1] [1]National Chi Nan University
09:10 – 09:30	**EuMC12-3** A Simultaneous 28 GHz FDD Phased Array Transceiver with Interference Tolerant RF Front End Yuval Ginzberg[1], Sergei Efimov[1], Emanuel Cohen[1] [1]Technion - Israel Institute of Technology	**EuMC13-3** Robust Long-Term Duplex Operation of a Wireless Network-Integrated Terahertz Outdoor Testbed Simon Haussmann[1], Lukas Gebert[1], Axel Tessmann[2], Ralf Henneberger[3], Thomas Zwick[4], Ingmar Kallfass[1] [1] University of Stuttgart, Institute of Robust Power Semiconductor Systems, [2]Fraunhofer Institute for Applied Solid State Physics IAF, [3]RPG Radiometer Physics GmbH, [4]Karlsruhe Institute of Technology (KIT)/ Institute of Radio Frequency Engineering and Electronics (IHE)	**EuMC14-3** Polydopamine-Assisted Tollens Metallization for 3D-Printed Microwave Components Dominik Langer[1], Frederike Bartels[1], Alexander Kölpin[1] [1]Hamburg University of Technology (TUHH)	**EuMC15-3** A MMIC-Based 14 GHz Dual Driver Doherty Power Amplifier Using Improved GaN/Si Technology Dhruvin Dhaval Pandya[1], Christian Schuberth[1], Stefan Bernhofer[1], Sudip Ghosh[1], Thomas Maier[2], Samer Al-Harazi[3], Helmut Brech[1], Rüdiger Quay[4] [1]Infineon Technologies AG, [2]Fraunhofer Institue for Applied Solid State Physics (IAF), [3]Nokia Technology Center Ulm, [4]Institute for Sustainable Systems Engineering (INATECH), University of Freiburg
09:30 – 09:50	**EuMC12-4** Link Budget and Component Design for an AESA in the FR2 n512 Bands Stefano Pisa[1], Renato Cicchetti[1], Emanuele Piuzzi[1], Erika Pittella[1], Orlandino Testa[1], Stefano Perticaroli[2], Francesco Buratti[2], Antonio Mosca[2], Marco Trigilio[2], Hassan Raza[2], Michela Dragone[2], Leonardo Cordisco[2], Saeid Jamili[2] [1]Sapienza University of Rome, [2]Radio Analog Micro Electronics srl, RAME	**EuMC13-4** A Polymer Microwave Fiber Link at Y-band for Low-Cost High-Speed Communication Frida Strömbeck[1], Maciej Wojnowski[2], Klaus Standner[2], Walter Hartner[2], Yu Yan[1], Herbert Zirath[1] [1]Chalmers University of Technology, [2]Infineon Technologies AG	**EuMC14-4** 2D MXene Enables Stretchable Resonant Array (SRA) for Structural Health Monitoring Zahra Sarpanah Sourkouhi[1], Jamal Alhourani[2], Yury Gogotsi[2], Mohammad Zarifi[3] [1]The University of British Columbia, [2]A.J. Drexel Nanomaterials Institute and Department of Materials Science and Engineering, Drexel University, [3]The University of British Columbia, Canada	**EuMC15-4** Monolithically Integrated Doherty PA for Band n104 Massive-MIMO Arrays Christian Musolff[1], Helmut Brech[1], Alexander Deublein[2], David Riess[2], Michael Loose[2] [1]Infineon Technologies AG, [2]Friedrich-Alexander-Universität Erlangen-Nürnberg
09:50 – 10:10	**EuMC12-5** Constructing Directional Modulation Transmitter Using Nonlinear Active Arrays Jiayu Hou[1], Yiyue Jiang[2], Aidan Colgan[2], Jonathan Ribeiro[2], John Dooley[2], George Goussetis[1], Yue Xiao[3], Yuan Ding[1] [1]Heriot-Watt University, Edinburgh, [2]Department of Electronic Engineering, Maynooth University, [3]University of Electronic Science and Technology of China	**EuMC13-5** Demonstration of 300 GHz Non-line-of-sight TCP-IP Link Enabled by Reflective Surface Rita Younes[1], Frederic Dutin[1], Davy Gaillot[1], Pascal Szriftgiser[2], Victor Torres[3], Jorge Teniente[4], Itziar Maestrojuán Biurrun[5], Simon Haussmann[5], Lukas Gebert[5], Ingmar Kallfass[5], Axel Tessmann[6], Sandrine Wagner[6], Sébastien Chartier[6], Carlo Lanzoni[7], Gabriele Canini[7], Luca Sanguinetti[8], Guillaume Ducournau[1] [1]IEMN, CNRS, University of Lille, France, [2]Laboratoire de Physique des Lasers, Atomes et Molécules, UMR CNRS 8523 PhLAM, Université de Lille, France, [3]Anteral, [4]Public University of Navarre, [5]Institute of Robust Power Semiconductor Systems (ILH), [6]Fraunhofer IAF, [7]Robopac-TECHLAB, [8]CNIT	**EuMC14-5** A Monolithic Metal 3D-Printed E-band Waveguide Cavity Filter: Manufacture and Surface Treatment Abolfazl Mostaani[1], Talal Skaik[1], Lu Qian[1], Peter Huggard[2], Peter Hunyor[2], Xiaobang Shang[3], Oilid Bouzekri[4], Yi Wang[1] [1]University of Birmingham, [2]UKRI STFC Lab, [3]National Physical Laboratory, [4]ESA-ESTEC	**EuMC15-5** Average Power Tracking Analysis of a Ka-Band GaN MMIC Power Amplifier With Integrated Supply Modulator for 5G Waveforms Gobezie Nigussie Molla[1], Meseret Tesfaye Wolde[1], Mohammad Moussa[1], Ahmad Al Hajjar[2], Julien Poulain[2], Philippe Bouysse[1], Audrey Martin[1] [1]XLIM - CNRS - Universite de Limoges, [2]MACOM Technology Solutions
10:10 – 10:30	**EuMC12-6** Hierarchical Tiled Arrangement of Unit Phased Array for High-Speed Beam Steering Sodai Hiyoshi[1], Yotaro Mune[1], Anji Miura[1], Ryuma Naruki[1], Hideyuki Nosaka[1] [1]Ritsumeikan University		**EuMC14-6** Buried-Electrode Surface Acoustic Wave: a high velocity mode for UHB applications Sylvain Ballandras[1], Alexandre Clairet[1], Emilie Courjon[1], Roland Salut[2], Florent Bernard[1], Tony Makdissy[1], Tony Makdissy[1], Saly N'diaye[1], Thierry Laroche[1], Marie Bousquet[3], William Daniau[2], Laure Rolland du Roscoat[1], Karine Landry[1], Aziz Alami-Idrissi[1] [1]SOITEC SA, [2]FEMTO-ST UMR 6174, [3]CEA - LETI	**EuMC15-6** A W-Band Packaged 2-Watt GaN CW Power Amplifier Module to Cover Frequency Range of 75 to 110 GHz Yonghui Shu[1], Alex H. Chen[1] [1]Eravant

WEDNESDAY 08:30 – 10:30

ROOM

Room 11

EuMC16
EuMA-EurAAP Special session Co-Design of Electronics and Antennas for Active Array Antennas

Chair: Bart Smolders[1]
Co-Chair: Maria Viganó[2], Daniele Cavallo[3]
[1]TU Eindhoven, [2]Viasat, [3]TU Delft

08:30 – 08:45 **EuMC16-1**
Co-design of filtering antennas and electronics
Yi Wang[1]
[1]University of Birmingham

08:45 – 09:00 **EuMC16-2**
Techniques for RF Front-End and Antenna Co-Design for Next-Generation Integrated Phased Arrays
Damiano Badini[1], Renato Lombardi[2]
[1]Huawei Technologies Co. Ltd., [2]Huawei IT

09:00 – 09:15 **EuMC16-3**
Over-the-Air characterization of highly integrated antenna systems
Teun van den Biggelaar[1]
[1]Antennex

09:15 – 09:30 **EuMC16-4**
Co-Design of an Octave Bandwidth Ultra Low-Noise Active Ortho-mode Transducer
Paulus Kruger[1]
[1]ASTRON

09:30 – 09:45 **EuMC16-5**
Full duplex array antennas with self-interference mitigation
Rob Maaskant[1]
[1]Chalmers University of Technology

09:45 – 10:00 **EuMC16-6**
Highly integrated front-end concept for dual-band 77/140 GHz automotive radar
Vojkan Vidojkovic[1]
[1]Eindhoven Univeristy of Technology

10:00 – 10:15 **EuMC16-7**
Co-design of antenna and electronics for a passive terahertz camera
Maria Alonso del Pino[1]
[1]Technical University of Delft

Room 13

EuMC17
Sustainable and Ambient Energy Harvesting for Wireless Power Transfer

Chair: Naoki Shinohara[1]
Co-Chair: Alessandra Costanzo[2]
[1]Kyoto University, [2]Università di Bologna

08:30 – 08:50 **EuMC17-1**
Power Distribution Control in Multi-Receiver WPT Using a Receiver Power Controllable Transmitter
Yeong-Ju Seo[1], Ji-Young Kim[1], Yun-sung Kim[1], Haechan Kang[1], Junhyun Kim[1], Jong-Won Yu[1]
[1]School of Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea

08:50 – 09:10 **EuMC17-2**
Study of a Cubic Receiving Antenna for Indoor Wireless Power Transfer
Ryota Kuri[1], Naoki Shinohara[1], Tomoki Yoshida[1], Tomohiko Mitani[1], Takayuki Okada[2]
[1]Kyoto University, Japan, [2]Murata Manufacturing Co., Ltd.

09:10 – 09:30 **EuMC17-3**
Hybrid Solar–Microwave Energy Conversion for Greenhouse Agriculture Using Transparent Rectennas
JING Jianwei[1]
[1]Kyoto University, Japan

09:30 – 09:50 **EuMC17-4**
Enhanced Wireless Power Transfer in Complex Propagation Environments using Phase Conjugation
Anahita Piri[1], Ícaro Veloso Soares[2], Matthieu Davy[1], Denys Nikolayev[1]
[1]IETR, [2]Trinity College Dublin

09:50 – 10:10 **EuMC17-5**
Recyclable Additive Circuits for RF Wireless Power Transfer Enabling Improved Power Handling and Sustainability
Nikolas Bruce[1], Xiaochuan Fang[1], Mahmoud Wagih[1]
[1]University of Glasgow

Room 14

EuMC18
Advanced VNA Measurement Techniques

Chair: Michael Ernst Gadringer[1]
Co-Chair: Andrej Rumiantsev[2]
[1]Institute of Microwave and Photonic Engineering, Graz University of Technology, Austria, [2]MPI Corporation

08:30 – 08:50 **EuMC18-1**
On parameterized de-embedding: indexing choices and uncertainty implications
Jon Martens[1]
INDUSTRIAL KEYNOTE
[1]Anritsu

08:50 – 09:10 **EuMC18-2**
Measurement Uncertainty Comparison of SOLR and SRM for a Planar Three-Port Calibration
Lukas Ebner[1], Stefan Wögerbauer[1], Helmut Paulitsch[1], Michael Ernst Gadringer[1]
[1]Institute of Microwave and Photonic Engineering, Graz University of Technology, Austria

09:10 – 09:30 **EuMC18-3**
A Scalable One-Port De-Embedding Technique for High Frequency Characterization of InP UTC-Photodiodes
Rinchen Choki Bhutia[1], Sara Hamzeloui[1], Amiran M Zadeh[1], Giorgio Bonomo[1], Nikolaos Poumpouridis[1], Olivier J. S. Ostinelli[1], Colombo Bolognesi[1]
[1]ETH Zurich

09:30 – 09:50 **EuMC18-4**
An Overdetermined Generalized Eigenvalue Formulation for VNA Calibration
Ziad Hatab[1], Bart Schrijver[1], David Blackham[1]
[1]Keysight Technologies

09:50 – 10:10 **EuMC18-5**
Universal Method for Probe Planarity Adjustment for 2-port On-wafer Measurement
Ryo Sakamaki[1], Martin Medebach[2], Seitaro Kon[1], Shuhei Amakawa[3], Michael Ernst Gadringer[2]
[1]National Institute of Advanced Industrial Science and Technology, [2]Graz University of Technology, [3]Hiroshima University

EuMC18-6
Evaluation of Real-Time Optically Corrected Probing of RF Devices with Different Probe Types
Domenico Vitali[1], Alessandro Chillico[1], Olof Bengtsson[1], Wojciech Samek[2]
[1]Ferdinand Braun Institut (FBH), [2]Technical University Berlin

Room 17

EuMC19
Advanced Filter Design: AI-Driven, ML-Enhanced & Space-Mapped

Chair: Michal Mrozowski[1]
Co-Chair: Matteo Oldoni[2]
[1]Gdansk University of Technology, [2]Politecnico di Milano

EuMC19-1
Deep Learning Enabled Inverse Design of Non-Uniform Pixel-Based Bandpass Filters
Chandan Roy[1], Ming Jian[1], Peyman Neshaastegaran[1], Wenyao Zhai[1]
[1]Huawei Technologies Canada Co.

EuMC19-2
Cognitive-Driven EM Optimization Using Complex Frequency Domain Features for Microwave Filters
Jingyi Feng[1], Feng Feng[1], Qi-Jun Zhang[2]
[1]Tianjin University, [2]Carleton University

EuMC19-3
Transformer-Based Surrogate Model for Bandpass Filters with Controllable Transmission Zeros
Xiaoyang Yu[1], Jingyun Bi[1], Xiaofei Hu[1], Xinyu Zhou[1], Jing Xia[2], Wing Shing Chan[3], Xiaojun Fu[4], Hao Wu[4], Manlin Yang[4]
[1]The Hong Kong Polytechnic University, [2]Jiangsu University, [3]City University of Hong Kong, [4]No. 24 Research Institute of China Elecronics Technology Group Corporation, and National Key Laboratory of Integrated Circuits and Microsystems

EuMC19-4
AI-Based Inverse Design Framework for Harmonic Suppressed Hexagonal Pixelated Bandpass Filtering Matching Network
Palaystint Thorng[1], Dowon Lee[1], Suyeon Kim[1], Md Abu Sufian[1], Phanam Pech[2], Jongsik Lim[3], Yongchae Jeong[1]
[1]Jeonbuk National University, South Korea, [2]National Polytechnic Institute of Cambodia, [3]Soonchunhyang University, South Korea

EuMC19-5
Enhancing Microwave Filter Design using Machine-Learning Surrogate Models
Carolina Garcia[1], Carlos Gahete[1], Carlos Vicente[1], Martin Wild[1], Theunis S. Beukman[1], Jordi Gil Raga[1], Vicente E. Boria[2]
[1]Dassault Systèmes, [2]Universitat Politecnica de Valencia

WEDNESDAY 08:30 – 10:30

ROOM **Room 8**

EuMW02
EuMC/APMC Special Session Microwave Technologies for Quantum Computers and Quantum Sensing in Asia-Pacific Region

Chair: Atsushi Sanada[1]

[1]Osaka University, Japan

08:30 – 08:50

EuMW02-1
Superconducting Quantum Computer in RIKEN

Yutaka Tabuchi[1]

[1]RIKEN Center for Quantum Computing

08:50 – 09:10

EuMW02-2
Angle-Resolved Two-Photon Quantum Scattering from Lossless Dielectric Structures via FFT-Accelerated Volume Integral Equations

Wei Sha[1]

[1]Zhejiang University

WEDNESDAY 10:30 – 12:50

Best Poster Award presented at the EuMC Closing Ceremony

Exhibition Hall

EuMC-PO2
EuMC Poster Session 2

Chair: Kamal Samanta[1]
Co-Chair: Zhenzhen Jiang[2]
[1]AMWT Ltd UK, [2]Xi'an Jiaotong Liverpool University

EuMC-PO2-1
Spatial Resolution Analysis of an Dielectric Waveguide Near Field Sensor for Surface Characterization

Josua Schnarr[1], Thomas Musch[1], Marcel van Delden[1]
[1]Ruhr-University Bochum

EuMC-PO2-2
A 140-220 GHz Broadband Frequency Doubler with High-efficiency and High-power

Yiming Zhang[1], Xiang Luo[1], Huali Zhu[1], Yong Zhang[1]
[1]university of electronic science and technology of china

EuMC-PO2-3
Ceramic Processing in a Multi-mode Heating Cavity

Ariana Kazemi[1], Laila Fighera Marzall[1], Robert Weiss[2], Alex Welsh[2], Zoya Popovic[1]
[1]University of Colorado, Boulder, [2]Malachite Technologies

EuMC-PO2-4
Environmental Impact Assessment of an FR3-band Base Station

Emma Complido[1], Serge Bories[1], Mattia Merluzzi[1]
[1]CEA Leti, Univ. Grenoble Alpes, F 38000 Grenoble, France

EuMC-PO2-5
A Two-Port Local Receiver for Distinguishing Transverse Phase Information of Beams Carrying Orbital Angular Momentum

Giacomo Lupi[1], Lorenzo Scalcinati[1], Bruno Paroli[1], Marco A.C. Potenza[1]
[1]University of Milan

EuMC-PO2-6
Dynamic Monitoring of Drying Processes Through Overmoded Circular Waveguides Using a D-Band FMCW Radar

Javagar Mahendran[1], Manuel Funk[1], Felix Faber[2], Alba Diéguez Alonso[3], Christian Schulz[1], Nicole Vorhauer-Huget[2], Ilona Rolfes[1], Jan Barowski[1]
[1]Institute of Microwave Systems, Ruhr University Bochum, Bochum, Germany, [2]Otto von Guericke University Magdeburg, [3]TU Dortmund

EuMC-PO2-7
Microfluidic-Integrated Silicon Dielectric Slot Waveguide Sensor for Fluid Characterization

Kristof Dausien[1], Tobias Körner[1], Marcel Burfeindt[1], Paulami Das[1], Martin Hoffmann[1], Ilona Rolfes[1], Jan Barowski[1]
[1]Ruhr University Bochum, Germany

EuMC-PO2-8
Dual-Sense 4-Tap RF Analogue Cancellation for Blocker-Tolerant Wideband Receivers

Francesco Raimondo[1], Mir Lodro[1], Andrew C. M. Austin[1], Geoffrey Hilton[1], Mark A. Beach[1]
[1]University of Bristol, Bristol, UK

EuMC-PO2-9
Modulated signal measurements: Comparison of Photonics and Electronics Approaches for D-band

Yewulsew Manale WODAJE[1], François Danneville[2], Pascal Szriftgiser[3], Daniel Gloria[4], Guillaume Ducournau[2]
[1]University of Lille - IEMN, [2]IEMN CNRS UMR 8520 - Univ of Lille, [3]CNRS - University of Lille, [4]STMicroelectronics, France

EuMC-PO2-10
Dual-Band Microwave Microfluidic Sensor with Enhanced Sensitivity Based on Coupled EMSIW Resonators

Xinyue Song[1], Fei Yang[2], Juncheng Bao[3], Sen Yan[2]
[1]Xi'an Jiaotong University, [2]Xi'an Jiaotong University, [3]Shenyang Institute of Automation, Chinese Academy of Sciences

EuMC-PO2-11
Ultra-low phase noise photonic microwaves enabled by a Difference Frequency Comb

Thomas Puppe[1], Sebastian Müller[1], Mikhail Volkov[1]
[1]Toptica Photonics SE

EuMC-PO2-12
Uniform E-Field Microwave-Fluidic Sensor Towards Broadband In-Flow Characterization of Microparticles

Arkadiusz Małek[1], Ilona Piekarz[1], Artur Rydosz[1], Jakub Sorocki[1]
[1]AGH University of Krakow

EuMC-PO2-13
Prediction of EVM degradations from AM/AM and AM/PM curves in D and H bands

Bachar Baridi[1], Guillaume Ducournau[2], Danneville François[1], Daniel Gloria[3]
[1]IEMN CNRS UMR 8520 - Univ of Lille, [2]IEMN CNRS - Univ of Lille, [3]STMicroelectronics, 850 Rue Jean Monnet, 38920 Crolles

EuMC-PO2-14
Study to Achieve Stable VNA Measurements Using 500-750 GHz Quasi-Optical Setup

Daniel Georg Hellmich[1], Kasturie Dileep Jatkar[1], Helena Rodilla[1]
[1]Chalmers University of Technology, Gothenburg, Sweden

EuMC-PO2-15
Generalized Quasi-Conformal Transformation Optics

Konrad Winston Haipl[1], Hossein Sarbandi Farahani[2], Holger Arthaber[3]
[1]PIDSO GmbH / Technische Universität Wien, [2]PIDSO GmbH, [3]Technische Universität Wien

EuMC-PO2-16
Accurate Equation-based Model for Schottky Diodes

Boris Dabov[1], Huib Visser[1], Dusan Milosevic[2], Hans Pflug[3]
[1]imec Netherlands, [2]Eindhoven Univeristy of Technology, [3]Onward Medical N.V.

WEDNESDAY 11:10 – 12:50

ROOM	Room 1	Room 4	Room 6	Room 7
	EuMC20 Phased Array Topologies, Elements, and Wide-Angle Beam Scanning Chair: Marianna Ivashina[1] Co-Chair: Elmine Meyer[2] [1]Chalmers University, [2]Eindhoven Univeristy of Technology	**EuMC21** Millimeter-Wave and THz Photonics Techniques Chair: Guillaume Ducournau[1] Co-Chair: Andreas Stohr[2] [1]University of Lille, [2]University Duisburg-Essen	**EuMC22** Biomedical Imaging and Radar Sensing Chair: Ann Franchois[1] Co-Chair: Changzhi Li[2] [1]Ghent University, [2]Texas Tech University	**EuMC23** Advanced Power Amplifier Design Chair: Roberto Quaglia[1] Co-Chair: Filipe Barradas[2] [1]Cardiff Univeristy (UK), [2]Instituto de Telecomunicações, Universidade de Aveiro
11:10 – 11:30	**EuMC20-1** A Wide-Beam Magnetoelectric Dipole Antenna for Scan-Loss Reduction in 5.8-GHz Wide-Angle Scanning Phased Arrays Junhyun Kim[1], Chanhee Lee[1], Ji-Young Kim[1], Ji-Hoon Lee[1], Yun-sung Kim[1], Jong-Won Yu[1] [1]KAIST RFSS	**EuMC21-1** Ultra Broadband Photonic Vector Network Analyzer Demonstrating a Calibrated D-Band Measurement Garrit Schwanke[1], Milan Deumer[1], Timo Noack[2], Thomas Puppe[3], Sebastian Müller[3], Albrecht Neudecker[3], Nico Vieweg[3], Lars Liebermeister[1], Mehmet Ahad Yurtoglu[1], Ramez Askar[1], Michael Peter[1], Taro Eichler[2], Gerd Hechtfischer[2], Robert Kohlhass[1] [1]Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute, HHI, [2]Rohde & Schwarz GmbH & Co. KG, [3]Toptica Photonics SE	**EuMC22-1** Experimental Validation of a Novel Cavity-Backed Sensor Array for Microwave Breast Imaging Milad Mokhtari[1], Milica Popović[1], Setareh Eftekhari[2] [1]McGill University, [2]Concordia University	**EuMC23-1** Inverse Design of Compact and Wideband Inverted Doherty Power Amplifiers Using Deep Learning Han Zhou[1], Haojie Chang[2], David Widén[2], Christian Fager[2] [1]Tampere University, [2]Chalmers University of Technology
11:30 – 11:50	**EuMC20-2** Additively Manufactured Dielectric Lens for Extending X-band AESA Radar Field-of-View Lorenzo Giambuzzi[1], Stefania Franco[1], Fabrizio Andreaus[1], Alessia Colasante[1], Philip Lambert[2], Henrik Ramberg[2] [1]Rheinmetall Italia S.p.A, [2]3DFortify, Inc	**EuMC21-2** Enhanced Beam Switching with a Photonic Sub-THz Transmitter for Joint Communication and Sensing Simon Nellen[1], Garrit Schwanke[1], Sebastian Lauck[1], Milan Deumer[1], María C. Santos[2], Robert Kohlhass[1] [1]Fraunhofer Heinrich Hertz Institute, [2]Universitat Politecica de Catalunya (UPC)	**EuMC22-2** Detecting Intracranial Hemorrhage via Wearable Microwave Imaging: Ex Vivo Human Study Pablo Giaccaglia[1], Nadim Conti[1], Valentina Lidoni[1], Alessia Rosa[1], Valentina Marandici[1], Jody Filippo Capitanio[2], Carmine Antonio Donofrio[3], Antonio Fioravanti[3] [1]Rilemo S.R.L., [2]IRCCS Ospedale San Raffaele, [3]ASST Cremona	**EuMC23-2** S-Band Power Amplifier Design Based on a Bare Die Device Osian Jones[1], Taylor Barton[1] [1]University of Colorado - Boulder
11:50 – 12:10	**EuMC20-3** Orthogonal-Port Isolation in Wide-Scan Triangular-Lattice Dual-Polarized mmWave Arrays Using Unbalanced-Fed Patch Antennas Theodoros Pavlidis[1], Artem R. Vilenskiy[2], Thomas Schäfer[3], Ahmed A. Kishk[4], Marianna Ivashina[1] [1]Chalmers University of Technology, [2]XPANCEO, [3]Satcube AB, [4]Concordia University	**EuMC21-3** A 3-13 GHz MZM LNA/Driver for Radio-over-Fiber Links in 22-nm CMOS FDSOI sareh bavandi[1], Jierui Fu[1], Hongwen Yu[1], Kamran Entesari[1] [1]TEXAS A&M UNIVERSITY	**EuMC22-3** MRI Receive Coil Based on a Two-Turn Spiral Resonator with 3D-Printed Filament Matthew Band[1], William Mathieu[1], Milica Popović[1], Reza Farivar[1] [1]McGill University	**EuMC23-3** 50-W GaN-on-Si Doherty Power Amplifier at 7 GHz Alexander Deublein[1], Christian Musolff[2], David Riess[1], Aldo Ruggiu[1], Jan-Felix Etzel[3], Robert Weigel[1], Georg Fischer[1], Norman Franchi[1], Michael Loose[1] [1]Institute for Smart Electronics and Systems, Friedrich-Alexander-Universitaet Erlangen-Nuernberg, [2]Infineon Technologies AG, [3]Nokia Technology Center Ulm
12:10 – 12:30	**EuMC20-4** Reducing mutual coupling effects using centered slots array with 3D printed ridged waveguides Shandipsing Robee[1], Christian Person[1], Anne-Charlotte AMIAUD[2], Thomas Merlet[2] [1]IMT Atlantique, France, [2]THALES LAS, Elancourt, France	**EuMC21-4** Microwave Frequency Measurement of Multi-Tone Signals Using a Programmable Photonic Processor Georgios Lymperakis[1], Yu Zhang[1], Xiangfeng Chen[1], Lukas Van Iseghem[1], Iman Zand[1], Hasan Salmanian[1], Joris Van Kerrebrouck[2], Antonio Ribeiro[1], Guy Torfs[2], Wim Bogaerts[1] [1]Photonics Research Group IMEC - Ghent University, [2]IDLab, Ghent University - imec	**EuMC22-4** Millimeter-Wave Radar-Based Unobtrusive Arrhythmia Classification Using Deep Learning Yuchen Li[1], Zichen Huang[1], Jie Cao[1], Xiaolei Xu[2], Qishan Chen[2], Li Zhang[2], Changzhan Gu[1] [1]Shanghai Jiao Tong University, [2]Xinhua Hospital Affiliated to Shanghai Jiaotong University School of Medicine	**EuMC23-4** A 915-MHz 1-kW High-Efficiency Continuous-Mode GaN Power Amplifier with In-Package Matching and Diamond-Copper Heat Dissipation Jian Lu[1], Haoyu Liu[1], Chenglong Li[1] [1]Suzhou Watech Electronics Co.,Ltd.
12:30 – 12:50	**EuMC20-5** A 50 dBi Gain E-Band Planar Phased Array for 10-Gb/s Wireless Backhaul Using Phase Clustering Francesco Rosta[1], Lorenzo Bastia[1], Tommaso Tiberi[1], Diego Masotti[1], Alessandra Costanzo[1] [1]Alma Mater Studiorum - Universita di Bologna	**EuMC21-5** Ultra-stable X-Band Photonic Microwave Source in a 3HU Rack System Achieving Mid-10E-15 Stability Benjamin Rauf[1], Michele Giunta[1], Marc Fischer[1], Ronald Holzwarth[1] [1]Menlo Systems GmbH		**EuMC23-5** Planar Ultra-Wideband and High-Efficiency Coaxial-Less GaN High-Power Amplifier Victor Bregeon[1], Anthony Ghiotto[1], Jose De Oliveira[2], Christophe Goujon[3], Guillaume Mouginot[3] [1]Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, [2]Thales SIX, Le Barp, [3]Direction Générale de l'Armement

WEDNESDAY 11:10 – 12:50

ROOM	Room 13	Room 14	Room 17
	EuMC24 Next-Generation Backscatter Tags and Harmonic Radar Systems Chair: Jiafeng Zhou[1] Co-Chair: Nuno Borges Carvalho[2] [1]University of Liverpool, [2]University of Aveiro / Instituto de Telecomunicações	**EuMC25** Advanced On-Wafer Calibration and Characterization Techniques for mmWave and Sub-THz Technologies Chair: Gia Ngoc Phung[1] Co-Chair: Jon Martens[2] [1]Physikalisch Technische Bundesanstalt (PTB), [2]Anritsu	**EuMC26** Advanced Modeling Methods for Active and Integrated Circuits Chair: Alessandra Costanzo[1] Co-Chair: Almudena Suarez Rodriguez[2] [1]Università di Bologna, [2]Universidad de Cantabria
11:10 – 11:30	**EuMC24-1** Semi-Supervised Pedestrian Identification Using CNN-BiLSTM Network with Mean Teacher Training Linqi Zhao[1], Yuqi Sha[1], Wai-Wa Choi[1], Pedro Cheong[1] [1]The University of Macau	**EuMC25-1** Instrumentation Evolution: Defining the Next Generation of mmWave Products and Applications Andrej Rumiantsev[1] **INDUSTRIAL KEYNOTE** [1]MPI Corporation	**EuMC26-1** Fast, Low-Cost Passive Load-Pull Measurements Using AI Load-Pull Extrapolation and Switched Impedance Network Jonathan Swindell[1], Oliver Jarvis[1], Austin Egbert[1], Adam Goad[1], David Cox[1], Charles Baylis[1], Robert Marks[1] [1]Baylor University
11:30 – 11:50	**EuMC24-2** Dual-Stream Backscatter Transmission Using Tags with 3-Load Yishan Wang[1], Gonçalo Martins[2], Jayakrishnan Methapettyparambu Purushothama[1], Wei Gong[3], George Goussetis[1], Nuno B. Carvalho[2], Yuan Ding[1] [1]Heriot-Watt University, [2]Universidade de Aveiro, [3]University of Science and Technology of China	**EuMC25-2** Single Sweep Characterization of InP HEMT with a Novel 250 MHz - 250 GHz On-Wafer mTRL Design Huihua Cheng[1], Andrej Rumiantsev[2], Suren Singh[3], Xiaobang Shang[4], Chong Li[1] [1]University of Glasgow, [2]MPI Corporation, Taiwan , [3]Keysight Technologies, USA, [4]National Physical Laboratory, UK	**EuMC26-2** Optimizing Finger Geometry and Electrode Layout for Enhanced Millimeter Wave Device Characteristics Bilal Pirzada Pirzada[1], Mohamed Mokhtar[1], Samir El-Ghazaly[1] [1]University of Arkansas
11:50 – 12:10	**EuMC24-3** A Fully SDR-based Interferometric Harmonic Radar for Locating Passive Harmonic Transponders Moritz Schabinger[1], Thomas Schaechtle[1], Fabian Höflinger[2], Stefan Johann Rupitsch[1] [1]University of Freiburg, [2]Fraunhofer EMI	**EuMC25-3** Accurate Modeling of On-Wafer Standards for Characterization of InP HBTs Using 16-Term Calibration Abhijeet Kanitkar[1], Ralf Doerner[1], Wolfgang Heinrich[1], Thomas Flisgen[2] [1]Ferdinand-Braun-Institut, [2]Brandenburg Technical University Cottbus, Cottbus	**EuMC26-3** Machine Learning based Surrogate Models of Inductors Integrated in BiCMOS Technologies Romain Demarchi[1], Gianesello Frederic[1], Foissey Ophélie[1], Charbuillet Clément[1], Rodriguez Sebastian[2], Mounayer Jad[2], Chinesta Francisco[2], Bila Stephane[3] [1]STMicroelectronics, France, [2]PIMM Lab, Arts et Metiers Institute of Technology, Paris, France., [3]XLIM, University of Limoges
12:10 – 12:30	**EuMC24-4** An Ultra-Low-Power Microwave Rectifier at -20 dBm for Battery-Free IoT Node Haoming He[1], Liping Yan[1], Changjun Liu[1] [1]Sichuan University	**EuMC25-4** Impact of Surface-Wave Modes on ISS Calibration and Transmission Line Characterization Arash Masrouri[1], Louis Delait[1], Jean-Pierre Raskin[1], Dimitri Lederer[1] [1]ICTEAM, Université catholique de Louvain, Belgium	**EuMC26-4** Few-Shot Adaptation of RF Power Amplifier Behavioral Models Across Operating Conditions Peter Palanjian[1], Sergey Shaboyan[1], Lavanya Rau[1] [1]Epirus, Inc.
12:30 – 12:50	**EuMC24-5** Experimental Validation of a Tuner-Based Single-Path Dual-Band Backscatter Tag for FDD Communication Jonathan Okocha[1], Matthias Rudolph[1] [1]Brandenburg University of Technology (BTU)	**EuMC25-5** Benchmarking TRL, LRM, and LRRM On-Wafer Calibrations for Silicon Technologies at D-Band Aniello Franzese[1], Batuhan Sutbas[1], Seyyid Dilek[1], Farabi Ibne Jamal[1], Sebastian Schulze[1], Dirk J. Hagen[1], Dirk Wolansky[1], Marco Spirito[2], Corrado Carta[1] [1]IHP - Leibniz Institute for High Performance Microelectronics, [2]TU Delft	**EuMC26-5** Spatial Sensitivity Maps for Post-Design Robustness in GA-Optimized Microwave Circuits via Cross-Run SHAP Analysis Takuma Akada[1], Kazuhiro Fujimori[1] [1]Okayama University

WEDNESDAY 14:10 – 16:50

Best Poster Award presented at the EuMC Closing Ceremony

Exhibition Hall

EuMC-PO3
EuMC Poster Session 3

Chair: Kamal Samanta[1]
Co-Chair: JING Jianwei[2]
[1]AMWT Ltd UK, [2]Kyoto University, Japan

EuMC-PO3-1
Iterative Algorithm for Near-Field Beam Shaping with Phased Arrays of Practical Element Patterns
Junyi Huang[1], Pin Li[1], Yafeng Wang[1], Yuqi Tan[1], Ang Liu[1], Shen Dong[1], Qiang Cheng[1], Yuhao Yang[1], Linghao Xia[1]
[1]Nanjing Research Institute of Electronics Technology

EuMC-PO3-2
Waveguide-Fed Fully Dielectric Rod Antenna with Pyramidal Horn and Inside Tapered Hollow for Wideband Impedance Matching
Stefan Simion[1]
[1]MTA - Ferdinand I

EuMC-PO3-3
An Ultra-Low Profile Wideband Circularly Polarized Cylindrical Dielectric Resonator Antenna for mmWave V2V/V2X Communications
Ammar Al-Sammak[1], Mohammad Eissa[1], Salam Khamas[1]
[1]University of Sheffield

EuMC-PO3-4
Enhanced X-band Microwave Absorption via Surface-Functionalized ZnO Nanoparticles in Epoxy Nanocomposites
Karim Benzaoui[1]
[1]Research Center Developement

EuMC-PO3-5
A Circuit-level Co-Design Methodology for a Waveguide-Integrated Power Amplifier at mm-Wave Frequencies
Yixiao Wei[1], Piyush Kaul[1]
[1]Eindhoven Univeristy of Technology

EuMC-PO3-6
Site-specific signal strength predictions in a TETRA commmunication system
Maximilian Spahn[1], Anne-Catherine Probst[1], Maximilian Wölfel[2], Ferdinand Keil[1], Ulrich Bochtler[1]
[1]University of Applied Sciences Aschaffenburg, [2]KAITEC GmbH

EuMC-PO3-7
Scan Loss Characteristics of Patch-Based Phased Array Topologies: An Empirical Analysis
Petar Peshev[1], Diego Caratelli[1], Gabriele Federico[2], Bart Smolders[2]
[1]The Antenna Company, Eindhoven University of Technology, [2]Eindhoven Univeristy of Technology

EuMC-PO3-8
Wideband Layered Dielectric Resonator Antenna for Millimeter-wave Applications
Sofia Vasconcellos[1]
[1]Faculty of Electrical and Computer Engineering, University of Campinas (Unicamp).

EuMC-PO3-9
Phase Change Calibration for S-Parameter Applications with many Ports in Cryogenic Environment
Karsten Kuhlmann[1], Jaime Öhlmann[2], Frauke Gellersen[1]
[1]Physikalisch-Technische Bundesanstalt (PTB), [2]TU Braunschweig

EuMC-PO3-10
Measurements of Dielectric Materials Using a TRL-Calibrated VNA-Based WR-15 Material Characterization Kit Without Time-domain Gating
Tae-Weon Kang[1], Hyunji Koo[1], Chihyun Cho[1], Jae-Yong Kwon[1]
[1]Korea Research Institute of Standards and Science (KRISS)

EuMC-PO3-11
The Design of a 2x2 MIMO Transparent Antenna Array
Aline C. de Souza[1], Johan Skatt[1], Robert F. Praino, Jr.[2]
[1]Cambridge Consultants, [2]CHASM Advanced Materials, Inc.

EuMC-PO3-12
Design and Development of a High-Gain Four-Element Antenna Array for 28 GHz mmWave 5G Applications
Fayyadh Ahmed[1], Salam Khamas[1]
[1]Unversity of Sheffield

EuMC-PO3-13
Joint Blind Phase Calibration and Direction of Arrival Estimation Using Convex Optimization
Shipeng Liu[1], Geert Leus[1], Arie GC Koppelaar[2], Juan Osorio[2], Kostas Doris[2]
[1]Delft University of Technology, The Netherlands, [2]NXP Semiconductors Eindhoven

EuMC-PO3-14
Design of a Reconfigurable Antenna for 2D Wide-Angle Scanning Multi-Mode Arrays
Aria Modaber[1], Diego Caratelli[2], Bart Smolders[1], Gabriele Federico[1]
[1]Eindhoven Univeristy of Technology, [2]Antenna Company

WEDNESDAY 14:10 – 16:10

ROOM	Room 1	Room 4	Room 6	Room 7
	EuMC27 Smart Antennas, SatCom Apertures, and Array Characterization Chair: Akram Alomainy[1] Co-Chair: Qammer H. Abbasi[2] [1]Queen Mary University of London, [2]University of Glasgow	**EuMC28** Innovative Additive Fabrication Techniques Chair: Nicolas Delhote[1] Co-Chair: Talal Skaik[2] [1]XLIM Research Institute, University of Limoges, Limoges, France, [2]Filtronic	**EuMC29** Special Session on Green Energy Transmitting and Harvesting RF/Millimetre-wave/Microwave Devices and Internet of Things Sensors Chair: Sunday C. Ekpo[1] Co-Chair: Z. Elsaraf[1], N. Karimian[1], M. Uko[1] [1]Manchester Metropolitan University	**EuMC30** Digital Linearization Techniques Chair: Pere L. Gilabert[1] Co-Chair: Anding Zhu (TBC)[2] [1]Universitat Politècnica de Catalunya, [2]University College Dublin
14:10 – 14:30	**EuMC27-1** ResNet-based Root-MUSIC for Accurate mmWave DOA Estimation under Gain/Phase Mismatches Yuval Ginzberg[1], Alon Zuaretz[1], Emanuel Cohen[1] [1]Technion - Israel Institute of Technology	**EuMC28-1** A Print-in-Place Approach for Realizing On-Chip Air-Core Micro-Inductors Enabled by Micro-3D Printing Genaro Soto-Valle[1], William Samo[1], Fernando Pastrana Aguirre[1], Nikolas Roeske[1], Marvin Joshi[1], Manos M. Tentzeris[1] [1]Georgia Institute of Technology	**EuMC29-1** Antenna Booster Technology Meets Nature: Empowering Forest Resilience through Green Connectivity Jaume Anguera[1] [1]Ignion	**EuMC30-1** Complexity Reduction in RF Power Amplifier Behavioral Models by Zero-Gating Jorge Muñoz-Bautista[1], Thomas Eriksson[1], Koen Buisman[1] [1]Chalmers University of Technology
14:30 – 14:50	**EuMC27-2** Estimating Mutual Coupling in Linear Patch Antenna Arrays Using an EEP-Based Method Ramonika Sengupta[1], Jacki Gilmore[2], Annie Cuyt[3] [1]Eindhoven University of Technology (TU/e), [2]Stellenbosch University, [3]University of Stirling	**EuMC28-2** Inkjet-printed Bandpass Filters Using Double-sided-shorted Folded Waveguide Resonators Berkay Dogan[1], Finbarr Waldron[2], Dimitra Psychogiou[1] [1]School of Engineering, University College Cork, Cork, T12 K8AF, Ireland , Tyndall National Institute, Cork, T12 R5CP, Ireland, [2]Tyndall National Institute, University College Cork, Ireland	**EuMC29-2** Nanostructured Optical Superabsorbers for Energy Harvesting, Infrared Emitters, Heat Management in Spacecraft and Mimicking Flat Lensing José Anguita[1] [1]University of Surrey	**EuMC30-2** Dual-Loop Learning Control Architecture for Efficient Digital Predistortion Dimuthu Lesthuruge[1], Bilal Khan[1], Nuutti Tervo[1], Marko E. Leinonen[1], Nandana Rajatheva[1] [1]University of Oulu
14:50 – 15:10	**EuMC27-3** Multi-Band Antenna Array based on Transparent Decoupling Surface and low Scattering Antenna [1], Hung-Wei Wu[1] [1]Guangdong Academy of Sciences	**EuMC28-3** Additively-Manufactured Coaxial Transmission Lines Konstantinos Kermanidis[1], Ghassen Brinis[2], Dimitra Psychogiou[1] [1]University College Cork and Tyndall National Institute, [2]Stryker	**EuMC29-3** Green Radio Frequency-Free-Space Optics Subsystems Design Considerations for 5G/6G Satellite-Cellular-Wi-Fi Applications M. Uko[1] [1]Manchester Metropolitan University	**EuMC30-3** Neural Network-Based Nonlinear Interpolation for Digital Predistortion With Bandlimited Feedback for Wideband Power Amplifiers Bilal Khan[1], Dimuthu Lesthuruge[1], Praneeth Susarla[1], Marko E. Leinonen[1], Aarno Pärssinen[1], Nuutti Tervo[1] [1] University of Oulu
15:10 – 15:30	**EuMC27-4** Design of a Wideband Unit Cell for Ka-Band SatCom Transmitarrays Luis DE LA CRUZ PAINADO[1], André Barka[1], Hamza Kaouach[2] [1]ONERA, FR, [2]LAPLACE/Toulouse-INP	**EuMC28-4** Low-Complexity 3D-Printed Monolithic Dielectric Cover–Lens Structure for Flexible Gain Enhancement of Sub-THz On-Chip Antennas Leonhard Hahn[1], Tobias Bader[1], Tim Pfahler[1], Christian Carlowitz[1], Gerald Gold[1], Martin Vossiek[1] [1]Friedrich-Alexander Universität Erlangen-Nürnberg	**EuMC29-4** Hybrid Substrates Development for Ultrawideband Transvester-enabled RF/Microwave/ Millimetre-wave Transceiver and Transponder Applications Sunday C. Ekpo[1] [1]Manchester Metropolitan University	**EuMC30-4** Spatially-Aware Digital Pre-Distortion of Massive MIMO Transmitters Mohamed Hamid[1], Ömer Gemici[1], David Astely[1], Ulf Gustavsson[1], Sara Hesami[1], Shipra Shipra[2], Thomas Eriksson[2] [1]Ericsson AB, [2]Chalmer University of Technology
15:30 – 15:50	**EuMC27-5** A Modular Stripline Series-Fed Antenna Array for Ku-Band Satellite Communications Aqeela Saghir[1], Rossella Gaffoglio[2], Giuseppe Musacchio Adorisio[2], Giorgio Giordanengo[2] [1]Advanced Computing, Photonics & Electromagnetics, Fondazione LINKS, Torino, Italy, [2]Fondazione LINKS, Torino, Italy	**EuMC28-5** Toward the Tiniest 3D Printed RF Interconnects for sub-THz Applications Hiba Lahlimi Alami[1], Cyril Guines[1], Nicolas Delhote[1], Aurelien Perigaud[1], Damien Passerieux[1], Sébastien Rougier[1], Stéphane Bila[1], Pedro Rynkiewicz[2] [1]Xlim - UMR 7252 - CNRS- Limoges University, [2]French space agency (CNES)	**EuMC29-5** Green Connectivity Solutions for Sustainably Designed and Manufactured Drones and Other Low-Altitude Flying Assets Balaji Perumal[1] [1]Anya Consultancy Services	**EuMC30-5** Feasibility Study of Using Air-Comp for DPD Adaption in MIMO System Linearization Minghan LIU[1], Siqi Wang[1], Julien Sarrazin[1], Aziz Benlarbi Delai[1] [1]Sorbonne Université
15:50 – 16:10	**EuMC27-6** Frequency Diverse Array-Based Virtual Point Source Feed for Virtual Parabolic Reflector Antennas and its Equivalent Radiating Aperture Realisation Altunkan Hizal[1], Ramazan Cetiner[1], Hayrullah Yildiz[2] [1]ASELSAN, [2] Baskent University, Ankara/Turkey	**EuMC28-6** 3D-Printed Sub-THz Chip-to-Chip Interconnect Using Planar Dielectric Image Line Technology Leonhard Hahn[1], Tobias Bader[1], Johannes Fleischmann[1], David Panusch[1], Johannes Ringel[1], Christian Carlowitz[1], Martin Vossiek[1] [1]Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg		**EuMC30-6** Out-of-Band Weighted Blind Digital Post-Distortion for Nonlinear RF Receivers Under Strong Adjacent Channel Interference Shipra Shipra[1], Siqi Wang[2], Thomas Eriksson[1] [1]Chalmers University of Technology, Gothenburg, Sweden, [2]Lab. de Génie Electrique et Electronique de Paris (GeePs), Sorbonne Université, CNRS, Paris, France, Lab. GeePs, CentraleSupélec, Université Paris-Saclay, CNRS, Gif-sur-Yvette, France

WEDNESDAY 14:10 – 16:10

ROOM	Room 13	Room 14	Room 17
	EuMC31 Focused Session on Advanced Rectifiers and Rectennas for Microwave Power Transmission Chair: Changjun Liu[1] Co-Chair: Simon Hemour[2] [1]Sichuan University, [2]IMS Bordeaux (U.Bordeaux)	**EuMC32** Techniques for Material Characterization: From Waveguide Alignment to Permittivity Measurement Chair: Denis Barataud[1] Co-Chair: Francesca Schenkel[2] [1]Xlim - UMR 7252 - CNRS- Limoges University, [2]Ruhr-Universität Bochum	**EuMC33** Recent Advances in Electromagnetic Theory and Computational Numerical Techniques Chair: Alessandro Galli[1] Co-Chair: Anthony Ghiotto[2] [1]Sapienza University of Rome, [2]University of Bordeaux
14:10 – 14:30	**EuMC31-1** A Simplified Frequency-Power-Efficiency Measurement Technique for Microwave Rectifiers with 3D Efficiency Mapping Neil Buchanan[1], Kieran Rainey[2] [1]Queen's University Belfast, [2]Queens University Belfast	**EuMC32-1** Comparison of Rectangular Waveguide Interface Alignment Performance at sub-THz Frequencies James Skinner[1], Daniel Koller[2], Nick Ridler[1] [1]National Physical Laboratory (NPL), UK, [2]Virginia Diodes Inc	**EuMC33-1** Recent Advances in Vector-Fitting Based Neuro-TF Methods for EM Parametric Modeling Feng Feng[1], Jinyi Liu[1], Qi-Jun Zhang[2] [1]Tianjin University, [2]Carleton University
14:30 – 14:50	**EuMC31-2** Nitrogen-Implanted Edge-Terminated β-Ga2O3 Schottky Barrier Diodes for High-Voltage Microwave Rectifier Applications Xiaochen Yu[1], Jiafeng Zhou[1], Chaoyun Song[2], Haoran Wang[3], Roy King-Yuen Wong[3] [1]University of Liverpool, [2]King's College London, UK, [3]National Tsing Hua University	**EuMC32-2** Spatial Dependent Permittivity Determination Using Complex Source Beam Focusing Irwin Barengolts[1], Manuel Funk[1], Javagar Mahendran[1], Ali Al-Tayar[1], Tobias Körner[1], Kristof Dausien[1], Christian Schulz[1], Ilona Rolfes[1], Jan Barowski[1] [1]Institute of Microwave Systems, Ruhr University Bochum, Bochum, Germany	**EuMC33-2** Practical Application of Randomized Space Mapping Joaquín Valencia[1], Belén Perelló-García[2], Francisco Pastor-Naranjo[2], Jose-Vicente Morro Ros[2], Marco Guglielmi[1], Vicente Enrique Boria-Esbert[2] [1]iTeam (Technical Univ. Valencia), [2]Technical university of Valencia
14:50 – 15:10	**EuMC31-3** Fully Integrated, 11 Watt, S-Band GaN MMIC Active Rectifier Ayush Bhatta[1], Greg Medwig[1], Shahid Ali Khan[1], Spyridon Pavlidis[1], David Ricketts[1] [1]North Carolina State University, USA	**EuMC32-3** Complex Permittivity Characterization Using a Backscattering Approach Compatible with Low-loss RF Dielectrics Mohsen Shafeghati[1], Etienne Perret[1] [1]Univ. Grenoble Alpes, Grenoble INP	**EuMC33-3** MNN-Incorporated Common-Pole MOR-based Neuro-TF Method for EM Parametric Modeling of Microwave Components Jinyi Liu[1], Feng Feng[1], Xiaolong Li[1], Ke Liu[1], Jiali Zhang[1], Qi-Jun Zhang[2] [1]Tianjin University, [2]Carleton University
15:10 – 15:30	**EuMC31-4** A 3.5 W Rectified DC Output Power Quasi-Vertical Diamond SBD in 2.45 GHz-Band Kosuke Saito[1], Takuma Seki[1], Ryunosuke Saito[1], Tomoyuki Furuichi[1], Yuji Kato[2], Hitoshi Umezawa[2], Noriharu Suematsu[1] [1]Research Institute of Electrical Communication, Tohoku University, [2]Ookuma Diamond Device Co., Ltd. Japan	**EuMC32-4** Impact of the Ambient Relative Humidity on the Relative Permittivity of PCB Substrates Rasmus Mentzer[1], Nico Weiss[1], Alexander Kölpin[1] [1]Institute of High-Frequency Technology, Hamburg University of Technology	**EuMC33-4** Modal Representation of Asymmetric Coupled Transmission Lines Using TRL-Constrained Rotation Koki Mochida[1], Satoshi Tanaka[1], Takeshi Yoshida[1], Shuhei Amakawa[1], Minoru Fujishima[1] [1]Hiroshima University
15:30 – 15:50	**EuMC31-5** A 2.45/5.8 GHz Dual-Band Rectenna Using Independent Matching Networks for RF Energy Harvesting Kai Song[1], Changjun Liu[1], Liping Yan[1] [1]Sichuan University	**EuMC32-5** A Microwave Oscillator for High Sensitivity Liquid Characterization Melania St.Cyr[1], Azin Zarrasvand[2], Negar Reiskarimian[1] [1]Massachusetts Institute of Technology, [2]Draper	**EuMC33-5** A RT-FDTD Hybrid Framework for Electromagnetic Wave Propagation in Multiscale Environments Huseyin Kayihan Comert[1], Aristeidis Lamprianidis[2], Antonios Giannopoulos[3], Yun Chen[1], Amelie Hagelauer[4] [1]Huawei Heisenberg Research Center Munich, Germany, [2]Independent Researcher, [3]The University of Edinburgh, [4]Fraunhofer Institute for Electronic Microsystems and Solid State Technologies EMFT
15:50 – 16:10			**EuMC33-6** The Role of Apertures on Electric Field Diffusion in Unstirred Enclosure Jun-Yeong Choi[1], Jung-Hoon Han[1], Jae-Wook Lee[1] [1]Korea Aerospace University

WEDNESDAY 14:10 – 16:10

ROOM **Room 8 - 11**

EuRAD01
EuRAD Opening

14:10 – 14:40 Welcome Address: Opening of the European Radar Conference 2026

David Greig[1]
[1]Leonardo UK

14:40 – 15:25 Air Defence & Self Protection Radars: How Future Battlefield Radars are Combining Defence & Automotive Technology

André Hanewinkel [1]
[1]Hensoldt Sensors GmbH

Modern Warfare is defining new requirements for battlefield radar sensors in frontline operations.
Combat vehicles and their crew are facing threats from infantry to UAVs over missiles to projectiles, while they are moving through the field.
Detecting various kinds of targets in parallel over certain kinds of radar cross sections and speeds in parallel, is the new challenge for radar sensor engineering.
This Keynote Speech is reviewing, how a combination of classical air defence radar architecture, new AESA Hardware, AI-Algorithms plus automotive technology is enriching next generation radar sensors, to keep pace with this evolution on the battlefield.

15:25 – 16:10 Beyond Monostatic Limits: A Global LBMR Approach to GEO Tracking and Detection

Marco Martorella[1]
[1]University of Birmingham

Space Domain Awareness (SDA) is entering a phase where scalability, sensitivity, and global collaboration are no longer optional, they are operational imperatives. This keynote presents the evolution and demonstration of a novel Large Baseline Multistatic Radar (LBMR) concept, which leverages geographically distributed transmitting and receiving assets to enhance detection and tracking performance in the geostationary orbit (GEO) regime.
By pairing high-power transmitting radars with highly sensitive passive receiving systems, including radio telescopes and large-aperture satellite communication antennas, we establish a bistatic and multistatic sensing architecture that improves signal-to-noise ratios and introduces spatial diversity. This approach enables the detection and characterization of smaller, more distant objects in MEO/GEO that are beyond the reach of conventional monostatic radar systems.
The LBMR initiative builds directly on collaborative efforts within the NATO Science and Technology Organisation (STO), particularly through the Sensing Technology (SET) Panel activities (SET-293 and SET-340), which have already federated a multinational network of sensors and expertise.
This keynote traces the journey from conceptual framework to real-time operational demonstration, highlighting how existing, dual-use infrastructure can be repurposed to deliver high-impact SDA capabilities without the need for costly new deployments.
Key technical challenges, including synchronization across large baselines, waveform compatibility, and advanced signal processing for weak target detection, are addressed, with emphasis on the algorithms and methodologies enabling coherent integration across heterogeneous systems. The presentation will showcase multiple real-data examples collected over the past six years, illustrating detection performance and visual analytics outputs.
Ultimately, this work demonstrates a scalable and cost-effective pathway for expanding global SDA capacity, particularly for nations with limited resources, by harnessing the latent potential of existing assets through coordinated, multistatic operation.

WEDNESDAY 16:50 – 18:30

ROOM	Room 4	Room 7	Room 14	Room 17
	EuMC34 RF Exposure Modeling and Characterization of Biological Materials Chair: Katia Grenier[1] Co-Chair: Micaela Liberti[2] [1]LAAS-CNRS, [2]Sapienza University of Rome	**EuMC35** Load-Modulated Power Amplifiers Chair: José Carlos Pedro[1] Co-Chair: Anna Piacibello[2] [1]Universidade de Aveiro - IT, [2]Politecnico di Torino	**EuMC36** Advanced Characterization of RF Devices and Systems Chair: Mauro Marchetti[1] Co-Chair: Marco Spirito[2] [1]Maury Microwave, [2]Delft University of Technology	**EuMC37** Antenna/Metasurfaces Design and Imaging Techniques Chair: Jakub Sorocki[1] Co-Chair: Nicolò Delmonte[2] [1]AGH University of Science and Technology, [2]Dept. of Electrical, Computer and Biomedical Engineering, University of Pavia
16:50 – 17:10	**EuMC34-1** The pros and cons of the scanning field probe and infrared imaging methods for APD evaluation Massinissa ZIANE[1], Lukman HENDRAJAYA[2], Maxim Zhadobov[2], Artem BORYSKIN[3] [1]NOKIA , [2]IETR - UMR CNRS 6164 - UNIVERSITÉ DE RENNES, [3]WAVELIS	**EuMC35-1** Multi-Subharmonic Switching Driving for GaN Digital Class-E Doherty Power Amplifiers Deguang Sun[1], Giulia Bartolotti[2], Anna Piacibello[2], Vittorio Camarchia[2], Andreas Wentzel[1] [1]Ferdinand-Braun-Institut, [2]Politecnico di Torino	**EuMC36-1** Dynamic Range Comparison of SFCW and FMCW Waveforms for Vector Network Analysis Ali Al-Tayar[1], Justin Romstadt[2], Vincent Lange-Nowak[2], Nils Pohl[2], Ilona Rolfes[1], Jan Barowski[1] [1]Institute of Microwave Systems, Ruhr University Bochum, [2]Institute of Integrated Systems, Ruhr University Bochum	**EuMC37-1** Propagation-Compensated Fourier Neural Operator for High-Resolution Near-Field Reconstruction Hyunlim Lee[1], Wonhyo Kim[1], Chilhyun Cho[2], Youngwook Kim[1] [1]Sogang University, [2]Korea Research Institute of Standards and Science (KRISS)
17:10 – 17:30	**EuMC34-2** Impact of Electromagnetic Wave Coupling on Bacillus anthracis Multi-Cell Models: Implications for DNA Release and Inactivation Pathways Amir Ghassabi[1], Giulia Risca[1], Martina Persechino[1], Shivangi Shukla[2], Heungjae Choi[2], Catrin F. williams[2], Francesca Apollonio[1], Micaela Liberti[1] [1]Sapienza University di Roma, [2]Cardiff Univeristy	**EuMC35-2** A 4-6 GHz GaN MMIC Switchless-Class-G Power Amplifier Mitigating Gain and Efficiency Collapse at Saturation Shun Wan[1], Guansheng Lv[2], Wenhua Chen[1], Dehan Wang[3], Wenming Li[3] [1]Tsinghua university, [2]Beijing Institute of Technology, China, [3]ZTE Corporation	**EuMC36-2** Development and Experimental Validation of an SDR-Based Near-Field Measurement System for 5G mmWave Antennas Kazuha Ito[1], Kazuhiro Fujimori[1], Takuma Akada[1], Yuhi Akiyama[1], Toshiyasu Tanaka[2] [1]Graduate School of Natural Science and Technology, Okayama University, [2]T&A Co., Ltd.	**EuMC37-2** Formulas for the Reflection Phase in THz Devices based on Homogenized Metasurfaces Stella Ventucci[1], Stella Ventucci[1], Edoardo Negri[2], Paolo Burghignoli[1], Dimitrios Zografopoulos[3], Walter Fuscaldo[2], Alessandro Galli[1] [1]Sapienza University of Rome, Italy , [2]CNR-IMM, Consiglio Nazionale delle Ricerche, Rome, Italy, [3]Aristotle University of Thessaloniki, GR, Thessaloniki
17:30 – 17:50	**EuMC34-3** Surface-Wave Skin Characterization with a Flexible Vivaldi Antenna: Experimental Validation Shangyang Shang[1], Milad Mokhtari[1], Milica Popović[1] [1]McGill University	**EuMC35-3** A 2-GHz 150W Load-modulated PA Achieving Above 50% Efficiency Across 20-dB Back-Off Range Wang Liu[1], Luís Cótimos Nunes[2], Filipe Barradas[2], Pedro Miguel Cabral[2], José Carlos Pedro[2], Qiang Liu[1] [1]College of Electrical and Information Engineering, Hunan University, Changsha, China, [2]Instituto de Telecomunicações, Universidade de Aveiro	**EuMC36-3** Characterization of High-Power RF Saturation in UTC-PDs Using a Pulsed-Laser Measurement Technique amirmohammad miran zadeh[1], Nikolaos Poumpouridis[1], Andrea Pertoldi[2], Florian Emaury[2], Sara Hamzeloui[1], Rinchen Choki Bhutia[1], Olivier J. S. Ostinelli[1], Colombo R. Bolognesi[1] [1]ETHZ, [2]Menhir Photonics	**EuMC37-3** A Self-Inclusive Polarimetric Finite-Array Coupling Network for Scan-Dependent Active Reflection Coefficient Prediction Jeff Massman[1] [1]Analog Devices Inc.
17:50 – 18:10	**EuMC34-4** Electric-Field Probe Design for Microwave-Based Non-invasive Leukemia Detection Koyuki Makabe[1], Masaya Tamura[1] [1]Toyohashi University of Technology	**EuMC35-4** Compact Low-Cost Three-Stage Load-Modulated Power Amplifier Design Using Generalized Coupler Pengyu YU[1], Kwok-Keung Michael Cheng[1] [1]The Chinese University of Hong Kong	**EuMC36-4** A Temperature-Controlled Noise Parameter Measurement Framework for Low-Frequency Lunar-Based Radio Telescopes Luuk Kool[1], Rehan Akmal[1], David Prinsloo[2], Elmine Meyer[1], Ulf Johannsen[1] [1]TUe, [2]ASTRON Netherlands Institute for Radio Astronomy	**EuMC37-4** AlphaGo for Antennas: a Generative Machine Learning Framework for Inverse Topology Synthesis and Optimization of Planar Antennas Xiaobo Wang[1], Moein Nazari, Suomin Cui, Gang Kang, Jiang Zhu, Djordje Tujkovic, Zhongde Wang, Jian Liu [1]Cadence Design Systems
18:10 – 18:30		**EuMC35-5** A Q-Band GaN Doherty-Like OLMBA with Single RF Input Daje Weber-Trebesch[1], Christian Friesicke[1], Leon Hertle[1], Thomas Maier[1], Fouad Benkhelifa[1], Rüdiger Quay[1] [1]Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics	**EuMC36-5** Wafer-Level Cryogenic Noise Parameters Measurement System Daniil Frolov[1], Jean-Olivier Plouchart[1], Utku Soylu[1] [1]IBM T. J. Watson Research Center	**EuMC37-5** PPW-Based Decoupling Technique for the Analysis of Integrated Lens Antennas Erik Speksnijder[1], Riccardo Ozzola[1], Andrea Neto[1] [1]Delft University of Technology, The Netherlands

WEDNESDAY 16:50 – 18:30

ROOM	Room 1	Room 6	Room 13
	EuRAD02 Enabling Technologies for Novel Sensing Systems Chair: Michail Antoniou[1] Co-Chair: David Greig[2] [1]Univerisity of Birmingham, [2]Leonardo UK	**EuRAD03** Advanced Automotive Radar Signal Processing Chair: Igal Bilik[1] Co-Chair: Kamel Haddadi[2] [1]Ben-Gurion University of the Negev, [2]University of Lille, CNRS / IEMN	**EuRAD04** AI-Based Enhancement of Radar Data Chair: Marina Gashinova[1] Co-Chair: Victoria Nockles[2] [1]University of Birmingham, [2]The Alan Turing Institute
16:50 – 17:10	**EuRAD02-1** Coherent Optical ISAR Imaging using Dual-Axis Motion Tracking Florentin Junghanns[1], Christian Waldschmidt[1], Mario Mueh[1] [1]Institute of Microwave Engineering, Ulm University	**EuRAD03-1** Synthetic Automotive Radar Point Cloud Generation using a Conditional Variational Autoencoder Ankush Roy[1], Justin Dauwels[1], Francesco Fioranelli[1], Geethu Joseph[1], Ashish Pandharipande[2] [1]Delft University of Technology, The Netherlands, [2]NXP / Eindhoven University of Technology (TU/e)	**EuRAD04-1** X-Band SAR Semantic Segmentation for Scenario Recognition in Cognitive Radar Systems Amir Hosein Oveis[1] [1]RaSS Center – CNIT
17:10 – 17:30	**EuRAD02-2** A Use Case for Quantum Radar Signal Processing: Opportunities and I/O Limitations Ronny Harmanny[1], Robin van Gaalen[1] [1]Thales Nederland B.V.	**EuRAD03-2** PN-PCT: A Hybrid Point-based Architecture for Automotive Radar Semantic Segmentation Admitos Rafail Passadakis[1], Justin Dauwels[1], Francesco Fioranelli[1], Ashish Pandharipande[2] [1]Delft University of Technology, The Netherlands, [2]NXP / Eindhoven University of Technology (TU/e)	**EuRAD04-2** PINN-Inspired Unsupervised SAR Despeckling with Pixel-Wise Adaptive Weighting Seunghui Jang[1], Yeonjae Kim[1], Youngwook Kim[1] [1]Sogang University
17:30 – 17:50	**EuRAD02-3** A Fully Digital SSB Modulated FMCW Radar Tag for K-Band Manuel Rechberger[1], Simon Heining[1], Georg Zachl[1], Harald Pretl[1], Christoph Wagner[2], Reinhard Feger[1] [1]Johannes Kepler University Linz, [2]Silicon Austria Labs GmbH	**EuRAD03-3** Investigation of Effects of Front Grill Installation on 77 GHz Automotive Radar with Over-the-Air Testing Muhammad Luqman Nazar[1], Masoumeh Pourjafarian[1], Christian Bornkessel[1], Matthias A. Hein[1] [1]Technische Universität Ilmenau	**EuRAD04-3** Drone Classification via Micro-Doppler Signatures in Digital Terrestrial Television Passive Radar Zhenghang Wang[1], Andrea Quirini[2], Fabiola Colone[2], Tao Shan[1], Xingshuai Qiao[3], Tianrun Wang[1] [1]School of Information and Electronics, Beijing Institute of Technology, [2]Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome, [3]Beijing University of Posts and Telecommunications
17:50 – 18:10	**EuRAD02-4** Motion Compensation of a Mast-Mounted Interferometric Radar Using GNSS-Synchronized Inertial Sensors Lapo Miccinesi[1], Andrea Cioncolini[1], Alessandra Beni[1], Luca Bigazzi[1], Lorenzo Pagnini[1], Massimiliano Pieraccini[1] [1]Department of Information Engineering, University of Florence	**EuRAD03-4** Bumper Reflection Mitigation for Automotive Radar Filip Alexandru Rosu[1], Gabriela Enescu[1], Andrei Anghel[2], Silviu Ciochina[2] [1]NXP Semiconductors, [2]National University of Science and Technology POLITEHNICA Bucharest	**EuRAD04-4** Deep Unfolded Gridless Sparse Recovery without Convex Relaxation for Bistatic Airborne Radar Clutter Suppression Weijun Huang[1], Tong Wang[1], Weichen Cui[2] [1]National Key Laboratory of Radar Signal Processing, [2]State Key Laboratory of Aerospace Intelligent Control Technology
18:10 – 18:30	**EuRAD02-5** RIS-Modulated Tag for Sensor Applications Using Low-Cost 24 GHz CW Radar Farid Morabet[1], Marc Lázaro Martí[2], Ramon Villarino[2], David Girbau Sala[2], Antonio Ramon Lazaro[2] [1]Universitat Rovira i Virgili, [2]Universidad Rovira i Virgili	**EuRAD03-5** Robust DoA Estimation Based on SBL under Practical Error Factors in Automotive Radar Teppei Yoshida[1], Shingo Jinno[1], yoshie kobayashi[1], Yufeng Fu[1], Sungwoo Cha[1] [1]MIRISE Technologies Corp.	**EuRAD04-5** A Clutter Suppression Algorithm via U-Net-structured Attention Deep Network for Airborne Radar Runze Hu[1] [1]Xidian University, China

THURSDAY 08:30 – 10:30

ROOM	Room 1	Room 6	Room 7	Room 9
	EuMC38 Metasurface and Leaky-Wave Antennas Chair: Stephen Hanham[1] Co-Chair: Kamil Yavuz Kapusuz[2] [1]Imperial College London, London, UK, [2]imec	**EuMC39** Design and Characterization Techniques Chair: Bahare Mohamadzade[1] Co-Chair: Dimitra Psychogiou[2] [1]CSIRO, [2]University College Cork and Tyndall National Institute	**EuMC40** LNAs, Phase Shifters, and Frequency Multipliers Chair: Nils Weimann[1] Co-Chair: Almudena Suarez Rodriguez[2] [1]University of Duisburg Essen, [2]Universidad de Cantabria	**EuMC41** Reconfigurable and MIMO Antennas Chair: Bart Smolders[1] Co-Chair: Xiaoming Chen [1]Eindhoven University of Technology (TU/e)
08:30 – 08:50	**EuMC38-1** A Flipped 3D-Printed Bulls Eye Antenna with Dielectric-Filled Metal Grooves Frederike Bartels[1], Dominik Langer[1], Sarah Klass[1], Alexander Kölpin[1] [1]Institute of High-Frequency Technology, Hamburg University of Technology, Germany	**EuMC39-1** Antenna Characterization Methodology for Backside-Radiating D-Band Integrated Dielectric Resonator Antenna Array Using Teflon Fixture Kanaka Joy[1], Muhammad Faisal Bashir[1], Thomas Voß[1], Jens Lehmann[1], Domke Jörg[1], Sascha Mehl[1], Elizabeth Bekker[2], Akanksha Bhutani[2], Matthias Wietstruck[1] [1]Leibniz-Institut für innovative Mikroelektronik, [2]Karlsruhe Institute of Technology	**EuMC40-1** Comparative Study of Residual Phase Noise Performance for various frequency Doubler Architectures Irfan Ashiq[1], Nicholas El-Takach[2], Sushil Kumar[2] [1]National Instruments, [2]NI/Emerson	**EuMC41-1** Tunable RF-Frontend UE Architecture Design Methodology for Beyond 5G System Ji-Young Kim[1], Sungjun Cho[1], Yeong-Ju Seo[1], Chanhee Lee[1], Haechan Kang[1], Jong-Won Yu[1] [1]Korea Advanced Institute of Science and Technology
08:50 – 09:10	**EuMC38-2** Aperture Field Synthesis and Impedance Modulation of a Multi-beam and Dual Band Metasurface Subhadrita Ghosh[1], Gopika Reghunadhan[2], SWARNADIPTO GHOSH[2], Chinmoy Saha[2], Okan Yurduseven[1] [1]Queen's University Belfast, [2]Indian Institute of Space Science and Technology, Thiruvananthapuram	**EuMC39-2** Analysis of Echoic Conditions, Signal-to-Noise Ratio, and Angle of Arrival Effects on Active Phased Array Calibration Muhammad Rizqi[1], Guilherme Theis[2], Yanki Aslan[3] [1]TU Delft, MS3 / Robin Radar Systems, [2]Robin Radar Systems, [3]TU Delft, MS3	**EuMC40-2** Linearly Controlled Phase Shifter using Folding Circuits with Polarity Reversal Switches Yotaro Mune[1], Anji Miura[1], Fuka Kamei[1], Hideyuki Nosaka[1] [1]Ritsumeikan Univercity	**EuMC41-2** Rotating Polarization Multiplexing toward Single-Antenna MIMO Systems Takashi Maehata[1], Eiji Mochida[1] [1]Sumitomo Electric Industries Ltd. Japan
09:10 – 09:30	**EuMC38-3** E-Band Fully Metallic Frequency-Scanning Slotted-Waveguide Antenna for Automotive Radar Ferran Zafrilla-Magraner[1], Alejandro García-Tejero[1], Miguel Ferrando-Rocher[2], Jose I. Herranz-Herruzo[2], Francesco Merli[1] [1]HUBER+SUHNER AG, [2]iTeam - Universitat Politècnica de València	**EuMC39-3** Design of an Ultra-Wideband Plane Wave Generator for Low-Frequency Antenna Measurements Xinzhong Li[1], Jungang Miao[1] [1]Beihang University (BUAA)	**EuMC40-3** A Frequency-Reconfigurable Filtering Low-Noise Amplifier for 5G New Radio Refarming Bands Ruipeng Zhang[1], Jiteng Ma[1], Qufei Qian[1], Xiaoqiang Gu[1], Andrew C. M. Austin[1] [1]University of Bristol	**EuMC41-3** Reconfigurable Circularly Polarized Antenna Array with Reconfigurable Scattering Characteristics Jiachen Wu[1], Yuchen Gao[1], Wen Jiang[1], Jie Liu[1] [1]Xidian University
09:30 – 09:50	**EuMC38-4** Analysis of a Simple Surface Wave Guiding Method and Application to Planar Leaky-Wave Antennas Qifeng Shen[1], Sadia Riaz[1], Alois Freundorfer[2], Symon K. Podilchak[1], Yahia Antar[3] [1]The University of Edinburgh, [2]Queen's University, [3]The Royal Military College of Canada	**EuMC39-4** Vector Spherical Harmonics Reconstruction of Active Phased Array Radiation Patterns from Sparse Measurements Máté László Iványi[1], Tworit Dash[1], Yanki Aslan[1], Marco Spirito[1], Claire Migliaccio[2], Jean-Yves Dauvignac[2], Laurent Brochier[2], Alexander Yarovoy[1] [1]Delft University of Technology, [2]University Cote d'Azur	**EuMC40-4** Variable Gain Phase Shifter Using Folding Circuits with Gilbert Cell Multipliers Ryuma Naruki[1], Yotaro Mune[1], Anji Miura[1], Fuka Kamei[1], Hideyuki Nosaka[1] [1]Ritsumeikan University	**EuMC41-4** Reconfigurable All-Digital Transmitter with Multi-User Support and FPGA-based Beamforming Ricardo Nunes[1], Luís Almeida[1], Tiago Varum[1], Arnaldo Oliveira[1] [1]Universidade de Aveiro / Instituto de Telecomunicações
09:50 – 10:10	**EuMC38-5** Preliminary Design of Ultrawideband Flat Leaky Lens Erik Speksnijder[1], Cesare Tadolini[1], Paolo Sberna[1], Riccardo Ozzola[1], Andrea Neto[1] [1]Delft University of Technology, The Netherlands	**EuMC39-5** Design of a Compact Ka-Band Dynamic Scattering Array Based on Monopoles Via-Etched on a Planar Substrate for Future 6G Networks Simone Trovarello[1], Michele Cocchi[1], Giulia Battistini[1], Diego Masotti[1], Alessandra Costanzo[1] [1]University of Bologna	**EuMC40-5** Analysis and Design of a 10.7-12.7 GHz GaN LNA with Integrated LC-Ladder-Network-based Notch Filters for Ku-band Satellite Communications Wei Huang[1], Quan Pan[1], Xiaohu Fang[1] [1]Southern University of Science and Technology, Shenzhen, China	**EuMC41-5** A 5.8-GHz Single-Element 4-Port Dual-Polarized MIMO DRA With Inter-Modal Decoupling via Null-Point Placement Haechan Kang[1], Young-Jun Lim[1], Hyeon-Jeong Cho[1], Sungjun Cho[1], Yeong-Ju Seo[1], Jong-Won Yu[1] [1]Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
10:10 – 10:30	**EuMC38-6** Additively Manufactured OAM Generator Metasurface with Risley Prism for Stratgic Beam Steering and Communication Akhilesh Kumar[1], Amit K Singh[1], Aakash Bansal[2], William Whittow[2] [1]Indian Institute of Technology, Patna, [2]Loughborough University, Loughborough	**EuMC39-6** Dual-Polarized Dynamic Metasurface Antenna Based on Degenerated Modes Vitor Carvalho de Almeida[1], Ramez Askar[1], Michael Peter[1], Wilhelm Keusgen[1] [1]Fraunhofer Heinrich Hertz Institute, [2]Technische Universitaet Berlin	**EuMC40-6** A 2.5-3.5 GHz Active Cold Noise Source Joseph Dunbar[1] [1]Univ. of Colorado, Boulder	**EuMC41-6** Compact, Wideband, Circularly-Polarized Reconfigurable Metasurface Antenna Zhentian Wu[1], chen chen[1], Xiaoming Chen[1], Xin Fang[1] [1]Anhui University

THURSDAY 08:30 – 10:30

ROOM	Room 13	Room 17	Room 4	Room 8
	EuMC42 Reconfigurable Intelligent Surfaces Chair: María García-Vigueras[1] Co-Chair: Esteban Menargues[2] [1]IETR, INSA Rennes, [2]Swissto12 SA	**EuMC43** Advanced Millimeter-Wave and Sub-THz Sensing, Imaging, and Communication Systems Chair: Alexander Kölpin[1] Co-Chair: Fabian Lurz[2] [1]Hamburg Uni. of Technology, [2]Otto-von-Guericke Uni. Magdeburg	**EuRAD05** Advanced Automotive Radar Signal Processing Chair: Kamel Haddadi[1] Co-Chair: Anum Pirkani[2] [1]University of Lille, CNRS / IEMN, [2]The University of Birmingham	**EuRAD06** Radar System Simulators Chair: Hugh Griffiths[1] Co-Chair: Martin Vossiek[2] [1]University College London, [2]Friedrich-Alexander University Erlangen-Nürnberg (FAU)
08:30 – 08:50	**EuMC42-1** Demonstration of Coverage Area Expansion by a Morphic RIS Using an Elastic Substrate at 140 GHz Band Atsushi Sanada[1] [1]The University of Osaka, Japan	**EuMC43-1** All-Electronic 240 Gbps Over-the-Air Communication Link Demonstration at 300 GHz Benjamin Schoch[1], Simon Haussmann[1], Lukas Gebert[1], Aleks Dyskin[2], Elad Mentovich[2], Axel Tessmann[3], Jean-Pierre Teyssier[4], Ingmar Kallfass[1] [1]Institute of Robust Power Semiconductor Systems (ILH), University of Stuttgart, [2]NVIDIA, [3]Fraunhofer Institute for Applied Solid State Physics (IAF), [4]Keysight Technologies	**EuRAD05-1** Tracking-aided Ego-motion Estimation for Automotive MIMO Radar Taoyue Wang[1], Sen Yuan[1], Alexander Yarovoy[1], Francesco Fioranelli[1] [1]TUDELFT	**EuRAD06-1** Measurement-based Enhanced Digital Radar Twin for High-fidelity Radar Simulation Oliver Sura[1], Patrick Fenske[2], Desar Mejdani[1], Peter Mergenthaler[1], Max Heidbrink[1], Tim Pfahler[2], Marcel Hoffmann[2], Martin Vossiek[1] [1]Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg, [2]fiveD GmbH
08:50 – 09:10	**EuMC42-2** Experimental Validation of a Ka-Band VO2-Switched RIS Unit Cell with Embedded Bias Routing and Beam-Steering Demonstration Afsaneh Hojjati-Firoozabadi[1], Raafat R. Mansour[1] [1]University of Waterloo	**EuMC43-2** Ku-Band Satellite Signals for Rain Rate Estimation: Performance Limits and 215-Link Validation Haofan Dong[1], Ozgur B. Akan[1] [1]University of Cambridge	**EuRAD05-2** Motion-Adaptive 360° Multi-Radar Imaging Using Self-Sustained Doppler Beam Sharpening Max Heidbrink[1], Marc Reinecke[1], Oliver Sura[1], Martin Vossiek[1] [1]Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg	**EuRAD06-2** Point-to-Point: Optimizing Radar Models via Attribute-Sensitive Metrics to Bridge the Reality Gap Markus Schmidt[1], Agnes Widera[2], Sarah Neugebauer[1], Moritz Kahlert[1], Claas Tebrügge[1], Torsten Bertram[3] [1]HELLA GmbH & Co. KGaA, [2]RWTH Aachen University, Germany, [3]TU Dortmund University, Germany
09:10 – 09:30	**EuMC42-3** Over-the-Air Characterization of a Reconfigurable Intelligent Surface Using Time-Domain Gating Giovanni Lasagni[1], Marco Badii[1], Stefano Maddio[1], Stefano Selleri[1], Monica Righini[1], Giovanni Collodi[1], Alessandro Cidronali[1] [1]Università degli Studi di Firenze	**EuMC43-3** PMMW Imaging of Ship Turbulent Wake: Simulation and Measurement Verification Huimin Xiong[1], Yayun Cheng[1], Kunmiao Huang[1], Nannan Wang[1], Jiahui Fu[1] [1]Harbin Institute of Technology	**EuRAD05-3** Improved Range Separability and Maximum Velocity for Automotive FMCW Radar via Frequency-Stepped Chirp Alexandru Girdianu[1], Filip Alexandru Rosu[1], Andrei Anghel[2] [1]NXP Semiconductors, [2]Research Center for Spatial Information- CEOSpaceTech, Politehnica University of Bucharest	**EuRAD06-3** Validation of SARCASTIC v2.0 Simulated Synthetic Aperture Radar Data Against Digitally Twinned Laboratory Measurements Michael Woollard[1], Daniel Andre[2], Hugh Griffiths[1], Matthew Ritchie[1] [1]University College London, [2]Cranfield University, UK
09:30 – 09:50	**EuMC42-4** A 28-GHz Reconfigurable Intelligent Surface with Continuous Phase Control: Implementation and Experimental Validation Spandan Manna[1], Florian Reher[1], Karim El Isa[1], Amar Al-Bassam[2], Dirk Heberling[1] [1]Institute of High Frequency Technology, RWTH Aachen University, [2]Fraunhofer FHR (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR)	**EuMC43-4** A Fully-Integrated 61 GHz ISM-Band CW SIMO Medical Radar for Multi-Patient Monitoring Batuhan Sutbas[1], Vladica Sark[1], Yanhua Zhao[1], Ayse Ecem Bezer[2], Uwe Maaß[2], Alexander Gäbler[2], Robert Holzschuh[3], Hui Lu[4], Mohamed Hussein Eissa[1], Wolfgang Heinrich[5], Corrado Carta[6], Gerhard Kahmen[1] [1]IHP Leibniz-Institut für Innovative Mikroelektronik, [2]Fraunhofer IZM, [3]Medizinische Universität Lausitz - Carl Thiem, [4]Brandenburgische Technische Universität, [5]Ferdinand Braun Institut (FBH), [6]Technische Universität Berlin	**EuRAD05-4** A Generic Virtual-Transmitter Decoder for Velocity Disambiguation in DDMA MIMO FMCW Radar Léa Volpin[1], Betrand Le Gal[2], Guillaume Ferré[3], Dominique Delbecq[4] [1]IMS Bordeaux / NXP Semiconductors, France, [2]IRISA Rennes, [3]IMS Bordeaux, [4]NXP Semiconductors, France	**EuRAD06-4** From Lidar Point Clouds to Semi-Synthetic Radar Representations in Automotive Scenes Avinash Nittur Ramesh[1], Aitor Correas-Serrano[1], Maria A. Gonzalez Huici[1] [1]Fraunhofer FHR
09:50 – 10:10	**EuMC42-5** Non-line-of-sight Multi-Polarization 802.15.3d Link enabled by RIS Dutin Frédéric[1], Rita Younes[1], Pascal Szriftgiser[1], Victor Torres[2], Jorge Teniente[2], Itziar Maestrojuán Biurrun[2], Chun-Lan Qin[3], Greg Jue[3], Guillaume Ducournau[1] [1] Univ. Lille, [2]Public University of Navarre, [3]Keysight Technologies	**EuMC43-5** A low-complexity Range-Dependent Resampling Technique for Accurate Large-Scale Motion Sensing Based on FMCW Radar Systems Yiyan Cao[1], Jiayu Zhang[1], Changzhan Gu[1] [1]Shanghai Jiao Tong University	**EuRAD05-5** OFDM Radar Processing Scheme with Improved Robustness to Off-Grid Doppler Frequency Shift Ruoyu Feng[1], Marc Bauduin[1], André Bourdoux[1] [1]imec	**EuRAD06-5** ARIFOMA: A Traffic-Driven Simulation Framework for Automotive Radar Interference Evaluation Arianit Preniqi[1], Oliver Lang[1], Stefan Schmalzl[2], Reinhard Feger[1] [1]Johannes Kepler University Linz, [2]Infineon Technologies AG
10:10 – 10:30	**EuMC42-6** A 140-GHz GaAs MMIC Reconfigurable Metasurface With Hot-Via Interconnects for Scalable RIS Implementation Shuping Li[1], Yi-En Kao[2], Yu-Hsiang Cheng[2], Jung-Tao Chung[3], Chung-Tse Michael Wu[2] [1]Rutgers University, [2]National Taiwan University, [3]Win Semiconductors	**EuMC43-6** Solving Beam-Compensated Sub-THz Volumetric Imaging via Differentiable Programming Lukas Furtmüller[1], Philipp Plöckinger[1], Reinhard Feger[1] [1]Johannes Kepler University Linz	**EuRAD05-6** Interference Detection Method for Automotive Radar Gabriela Enescu[1], Filip Alexandru Rosu[1], Adriana Brigalda[1], Pavel Agrigoroaei[1], David Bethge[1] [1]NXP Semiconductors	**EuRAD06-6** A Modular Simulation Architecture for C-UAS Evaluation Tim Kinnunen[1], Per Grahn[1], Johan Appelgren[1], Tommy Johansson[1], Fredrik Näsström[1] [1]Swedish Defence Research Agency (FOI)

THURSDAY 08:30 – 10:30

ROOM **Room 12**

EuRAD07
AI for Cognitive Radar, Waveform Intelligence & EW

Chair: David Greig[1]
Co-Chair: Carmine Clemente[2]
[1]Leonardo UK, [2]University of Strathclyde

08:30 – 08:50
EuRAD07-1
Learned Pre-Distortion of Diverse Radar Waveforms

Amos Hebb[1], Alexander Yarovoy[1], Francesco Fioranelli[1]
[1]Delft University of Technology

08:50 – 09:10
EuRAD07-2
Towards a Radar Foundation Model: Efficient Multi-task Deinterleaving of Radar Pulse Trains

Leo Zeitler[1], Ian Groves[1], Edward Gunn[1], Adam Hosford[2], Jarrod Williams[1], Varun Chhabra[1], Victoria Nockles[1]
[1]The Alan Turing Institute, [2]Dstl

09:10 – 09:30
EuRAD07-3
A Principled Empirical Game-theoretic Framework with Deep-RL for Cognitive Jamming Against Radar

Emma Hawes[1], Gregory Palmer[1], Daniel J. B. Harrold[1], Bashar Ahmad[1], Paul O'Shaughnessy[1]
[1]BAE Systems

09:30 – 09:50
EuRAD07-4
Deep Reinforcement Learning for Cognitive LPI Radar in Contested Spectrum Environments

Afonso Sénica[1], Paulo Marques[2], Mário Figueiredo[3]
[1]Instituto de Telecomunicacoes - Universidade de Lisboa (IST-UL), [2]Instituto Superior de Engenharia de Lisboa, [3]Instituto Superior Técnico

09:50 – 10:10
EuRAD07-5
Deep Learning for Narrowband Inter-Radar Interference Mitigation with Hardware Impairments

Yudai Suzuki[1], Xiaoyan Wang[1], Masahiro UMEHIRA[1], Hao Zhou[2]
[1]Ibaraki University, [2] University of Science and Technology of China

10:10 – 10:30
EuRAD07-6
Learning Electromagnetic Scattering Representations: Physics-Driven GAN for HRRP Extrapolation

Zhishuang Lin[1], Xiaoli Gao[1], Jianan Yan[1], Min Zhang[1]
[1]Xidian University

THURSDAY 10:30 – 12:50

Best Poster Award presented at the EuRAD Closing Ceremony

Exhibition Hall

EuRAD-P01
EuRAD Poster Session

Chair: Kamal Samanta[1]
Co-Chair: Aleksanteri Vattulainen[2]
[1]AMWT Ltd UK, [2]University of Strathclyde, Glasgow, United Kingdom

EuRAD-P01-1
Formation Flying Architecture for Multi-UAV SAR Experiments
Sofia Judith Sanchez Urresta[1], Alexis Fernando Mariño salguero[1], Stefan V. Baumgartner[1], Gerhard Krieger[1]
[1]Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)

EuRAD-P01-2
Millimeter Wave Radar Based Pedestrian Activity Classification with Multi-dimensional Point Cloud Data
Takeru Matsuoka[1], Shouhei Kidera[1]
[1]The University of Electro-Communications

EuRAD-P01-3
Automatic Location, characterisation, and classifiaction of vibrating maritime targets using high-order features
Laura Parra Garcia[1], Malcolm Macdonald[1], Carmine Clemente[1]
[1]University of Strathclyde, Glasgow, United Kingdom

EuRAD-P01-4
Sparse Estimation for the Detection of Multiple Scatterers in SAR Tomography
Pia Addabbo[1], Diego Reale[2], Antonio Pauciullo[2], Gianfranco Fornaro[2], Danilo Orlando[3]
[1]Università Telematica Giustino Fortunato, [2]National Research Council–Institute for the Electromagnetic Sensing of the Environment (CNR-IREA), Italy, [3]Department of Information Engineering, University of Pisa, Italy

EuRAD-P01-5
Parallel Fast Factorized Backprojection with NUFFT for SAR Imaging on Tightly Coupled CPU-GPU
Masato Gocho[1], Masayoshi Tsuchida[1]
[1]Mitsubishi Electric Corporation

EuRAD-P01-6
Efficient Joint TDOA and DOA Estimation in IR-UWB Radar for Multi-Person Localization
Chaima CHABBAT[1], Abdelmadjid MAALI[1], Mohamed Salah AZZAZ[1]
[1]Ecole Militaire Polytechnique

EuRAD-P01-7
Utilizing Non-Line-of-Sight Radar Features for Process Condition Characterization in Forging
Yuyao Jiang[1], Artem Alimov[2], Sebastian Härtel[2], Markus Gardill[1]
[1]BTU Cottbus-Senftenberg, Chair of Electronic Systems and Sensors, [2]BTU Cottbus-Senftenberg, Chair of Hybrid Manufacturing

EuRAD-P01-8
Backprojecting Gradients: Differentiable SAR Imaging for UAV Autofocus
Michael Fritzenwallner[1], Ahmed Hashem[1], Andreas Haderer[2], Reinhard Feger[1]
[1]Christian Doppler Laboratory for Distributed Microwave and Terahertz Systems for Sensors and Data Links, [2]Joby Austria GmbH

EuRAD-P01-9
Segmentation-based detector for mm-wave radar human detection
Dingyang Wang[1], Alexander Yarovoy[1], Francesco Fioranelli[1]
[1]TU Delft

EuRAD-P01-10
On Embedded Radiation Pattern Effects in MIMO Radar and Their Mitigation Using Dummy Antennas
Niklas Frewer[1], Bartosz Tegowski[1], Alexander Kölpin[1]
[1]Hamburg University of Technology (TUHH)

EuRAD-P01-11
Performance Analysis of a Fractional Fourier Domain Detector for Electronic Warfare
Aline de Oliveira[1], Canisio Barth[2], Fabian Backx[1]
[1]Brazilian Navy Research Institute, [2]Aeronautics Institute of Technology

EuRAD-P01-12
Correlator bank optimization for sparse beamspace recovery using MIMO radars with analog correlators
Iosif Vardakis[1], Ashish Pandharipande[2], Nitin Jonathan Myers[3]
[1]TU Delft, [2]NXP, [3]TU Deflt

EuRAD-P01-13
Comparison of Approaches to Road Texture Sensing with mm-Wave Automotive RADARs
Neil John Lord[1], Fhatuwani Luvhengo[2], Reinhardt von Brandis-Martini[2], Tinus Stander[2]
[1]Council for Scientific and Industrial Research (CSIR), [2]University of Pretoria, South Africa

EuRAD-P01-14
Investigation of Range Sidelobe Levels for FDA-MIMO Radar Systems via Analytical Ambiguity Functions
Durul Akdemir[1], Gökhan Muzaffer Güvensen[2], Ali Özgür Yılmaz[2], Sencer Koç[2]
[1]ASELSAN, [2]Middle East Technical University

EuRAD-P01-15
Adaptive Beamforming with Rotating 2D Antenna
Thomas Schuster[1]
[1]Hensoldt Sensors GmbH

EuRAD-P01-16
Array Design on Curved Surfaces for Near-Field MIMO Imaging Radar
Gabriel Schnoering[1], Halil Durmuş[2]
[1]FTES AG, [2]Fujikura Technology Europe Turkey

EuRAD-P01-17
DOA Estimation in Coherent Interference Environments Using Vortex Beamforming
Shikang Li[1], Ang Liu[1], Yafeng Wang[1], Yuhao Yang[1], Pin Li[1]
[1]National Key Laboratory of Radar Detection and Sensing, China

EuRAD-P01-18
Blockchain-Based Decentralized Task Allocation in Integrated Sensing and Communication Networks
Xianzhe Xu[1], Xingwei Ye[1], Luofang Jiao[1], Qiang Cheng[1], Linghao Xia[1], Yuhao Yang[1]
[1]Nanjing Research Institute of Electronics Technology

EuRAD-P01-19
Heartbeat Detection using CW Radar on the Edge
Jakob Strutz[1], Alexander Kölpin[2], Kay Bierzynski[1]
[1]Infineon Technologies AG, [2]Technische Universität Hamburg (TUHH)

THURSDAY 11:10 – 12:50

ROOM	Room 1	Room 7	Room 13	Room 17
	EuMC44 Antennas for Next-Generation Millimeter-Wave Communication and Sensing Chair: Kamil Yavuz Kapusuz[1] Co-Chair: Jin Zhang[2] [1]imec, [2]Queen Mary University of London	**EuMC45** Advances in Oscillators and Phase-Locked Loops Chair: Matthias Rudolph[1] Co-Chair: Florinel Balteanu[2] [1]Brandenburg University of Technology Cottbus-Senftenberg (BTU), [2]Skyworks Solutions Inc.	**EuMC46** Metasurfaces and Metamaterials Chair: Enrique Márquez-Segura[1] Co-Chair: Alejandro García-Tejero[2] [1]Universidad de Málaga, [2]HUBER+SUHNER AG	**EuMC47** Components for Microwave and THz Sensing Chair: Simon Hemour[1] Co-Chair: Jasmin Grosinger[2] [1]IMS Bordeaux (U.Bordeaux), [2]Universität Siegen
11:10 – 11:30	**EuMC44-1** On-Board Spherical Dielectric Resonator for Concurrent Antenna and High-Q Resonator Operation Ahmed Nasheed[1], Jan Hesselbarth[1] [1]Universität Stuttgart	**EuMC45-1** A 0.5-V 207-GHz Push–Push Oscillator With Highly-Scaled Mesa Achieving 190.8 dBc/Hz FoM in 70-nm GaAs pHEMT Technology Chih-Ju Wu[1], Xu Jiang[1], Jung-Tao Chung[2], Austin Ying-Kuang Chen[3], Chung-Tse Michael Wu[1] [1]National Taiwan University, [2]Win Semiconductors, [3]University of California, Santa Cruz	**EuMC46-1** A High-Gain Metasurface Antenna for Linearly Polarized mmWave Wireless Links Marcello Zucchi[1], Andrea Scarabosio[1], Giuseppe Musacchio Adorisio[1], Rossella Gaffoglio[1], Giorgio Giordanengo[1], Fabio Morgia[2], Francesco Verni[2], Matteo Alessandro Francavilla[2], Giuseppe Vecchi[3] [1]Fondazione Links, [2]Huawei Milan Research Center, [3]Politecnico di Torino	**EuMC47-1** Thermal Dynamics in Microwave Interferometric Nano and Microparticle Suspension Sensing SEVDA SEYYEDMASOUMIAN[1], Maede Chavoshi[1], Tomislav Markovic[2], Bart Nauwelaers[1], Dominique Schreurs[1] [1]KU Leuven, [2]Faculty of Electrical Engineering and Computing, University of Zagreb
11:30 – 11:50	**EuMC44-2** A Stacked Cavity-Backed Slot Antenna with Selective Frequency-Shifting Vias for Dual-band Operation in Metal Enclosure Yun-sung Kim[1], Hyeon-Jeong Cho[1], Yeong-Ju Seo[1], Haechan Kang[1], Ji-Young Kim[1], Jong-Won Yu[1] [1]Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea	**EuMC45-2** PLL-Based Control of Dielectric Resonator Oscillator with High Bandwidth and Dynamic Robin Kaesbach[1], Marcel van Delden[1] [1]Ruhr University Bochum	**EuMC46-2** A Semi-Transparent Flexible Dual-band Metantenna for Wearable Applications Yingrui Lu[1], Zhenzhen Jiang[1], Zijian Dong[1], Mark Leach[1] [1]Xi'an Jiaotong Liverpool University	**EuMC47-2** All-dielectric Terahertz near-field probe for high-resolution non-destructive inspection of integrated circuits Ashish Kumar[1], Muhsin Ali[2], Daniel C. Gallego[2], Guillermo Carpintero[1] [1]Universidad Carlos III de Madrid, Leganes, Madrid, Spain, [2]Leapwave Technologies SL
11:50 – 12:10	**EuMC44-3** Gain, Efficiency and Bandwidth Enhancement of mmWave Planar Antenna Array using Corrugated Aperture and Wave Guided CPW Transmission Line Mohammed Aborahama[1], Ahmed Metwally Hegazy[1], Omar M. Ramahi[1], Raafat R. Mansour[1] [1]University of Waterloo	**EuMC45-3** A Novel Low-complexity gm-boosted Oscillator Architecture for Millimeter-Wave Applications Mohamad El Chaar[1], Gustavo Misawa Hama[2], Florence Podevin[2], Antonio Augusto Lisboa de Souza[3], Ariana Lacorte Caniato Serrano[4], Gustavo Pamplona Rehder[4], Sylvain Bourdel[2] [1]CEA-LETI, [2]TIMA Laboratory, Grenoble INP, CNRS, University of Grenoble Alpes, [3]Federal University of Paraíba, [4]LME Laboratory, Escola Politécnica da Universidade de São Paulo	**EuMC46-3** Multiband CPW-fed Slot Antennas Loaded with CRLH Unit Cells Nour Elwagdy[1], Tamer Abuelfadl[2], Amr Safwat[2] [1] Faculty of Engineering, Ain Shams University, [2]Nile University, School of Engineering and Applied Sciences	**EuMC47-3** Planar Microwave Sensor with Tunable Sensitivity and Linearity Nazmia Kurniawati[1], Paris Vélez[1], Pau Casacuberta[1], Xavier Canalias[1], Ferran Martín[1] [1]Universitat Autònoma de Barcelona
12:10 – 12:30	**EuMC44-4** DGS-enhanced 5G NR FR3 Antenna Development and Validation for Joint Communication and Sensing Merve Tascioglu Yalcinkaya[1], Padmanava Sen[1], Yash Richhariya[1], Gerhard Fettweis[1] [1]Barkhausen-Institut gGmbH	**EuMC45-4** Reconfigurable Lock/Unlock Oscillator Dynamics for Short-Range Microwave Sensing Hanaa El Moudden[1], Franco Ramírez[1], Almudena Suarez Rodriguez[1] [1]Universidad de Cantabria	**EuMC46-4** Broadband Reconfigurable Reflectarray Antenna Based on Metasurface Jiaqing Li[1], Hao Wang[1], Guohong Du[1], Ximing Li[1], Fengling Peng[1] [1]Chengdu University of Information Technology	**EuMC47-4** Design and Evaluation of a Crosspolar Surface Dipole Antenna for Tracing Applications Eduard Gramlich[1], Nicholas Karsch[1], Jonas Schorlemer[1], Birk Hattenhorst[2], Marcel van Delden[1], Ilona Rolfes[1], Thomas Musch[1] [1]Ruhr University Bochum, Germany , [2]2pi-Labs GmbH
12:30 – 12:50	**EuMC44-5** A Compact Dual-Band Patch Antenna with Radiation Performance Enhancement for 6G Upper Mid-band and mmWave Sensing Applications Md Abu Sufian[1], Dowon Lee[1], Keunhoe Lee[1], Girdhari Chaudhary[1], Yongchae Jeong[1] [1]Jeonbuk National University	**EuMC45-5** Multi-Loop YTO Contolling for Wideband and Agile Frequency Synthesizer Lukas Polzin[1], Nils Pohl[1], Thomas Musch[1], Marcel van Delden[1] [1]Ruhr University Bochum	**EuMC46-5** Metasurface for Simultaneous Transmit-Receive Operation: Phase Quantisation and Optimisation Yihan Ma[1], Yibing Guo[1], Qi Luo[1], Leiyuan Qin[2], Wei Hu[2], Lehu Wen[3], Yonggang Zhou[4] [1]University of Hertfordshire, [2]Xidian University, China, [3]Brunel University London, [4]Nanjing University of Aeronautics and Astronautics	**EuMC47-5** Characterization of a 300 GHz Monopulse Multimode Antenna for THz-Link Alignment Mark Johannes Neff[1], Maximilian Heckele[1], Simon Haussmann[1], Keizo Inagaki[2], Hugh Gibson[3], Ralf Henneberger[4], Arata Ogaki[5], Shintaro Hisatake[6], Tetsuya Kawanishi[5], Ingmar Kallfass[1] [1]University of Stuttgart, [2]National Institute of Information and Communication Technology, [3]GMD EURL, [4]RPG Radiometer Physics GmbH, [5]Waseda University, [6]Gifu University, Gifu, Japan

THURSDAY 11:10 – 12:50

ROOM	Room 4	Room 8	Room 12	Room 15
	EuRAD08 Radar-Based Mapping, Localization, and Sensing for Autonomous Platforms Chair: Christian Waldschmidt[1] Co-Chair: Igal Bilik[2] [1]Ulm University, [2]Ben-Gurion University of the Negev	**EuRAD09** Direction of Arrival Estimation Chair: Laura Anitori[1] Co-Chair: Reinhard Feger[2] [1]CNIT RASS, [2]Johannes Kepler University Linz	**EuRAD10** AI for Detection, Tracking and Multi-Modal Perception Chair: Stephen Harman[1] Co-Chair: Leo Zeitler[2] [1]Thales UK, [2]The Alan Turing Institute	**EuRAD11** Special Session EMSIG – The UK Radar Society and UK Radar Ecosystem Chair: Carmine Clemente[1] Co-Chair: Darren Coe[2] [1]University of Strathclyde, [2]QinetiQ
11:10 – 11:30	**EuRAD08-1** Occupancy Grid Mapping Using a Single-Channel Sub-6 GHz FMCW Radar Max Basler[1], Sven Thäle[1], Ron Riekenbrauck[1], Daniel Laqua[1], Timo Grebner[1], Christian Waldschmidt[1] [1]Institute of Microwave Engineering, Ulm University	**EuRAD09-1** Resilient Radar Target Resolvability in Narrow Angular Sectors via Dual-Regularized IAA Ryuhei Takahashi[1], Tsubasa Terada[1], Hassan Mansour[2], Petros Boufounos[2] [1]Mitsubishi Electric Corporation, [2]Mitsubishi Electric Research Laboratories	**EuRAD10-1** From Classification to Tracking: A Unified Learning Framework for Imaging Radar Point Clouds Zhifei Wang[1], Xiao WANG[1], Zenghui LI[1], Huiqiang Zhou[1], Hongquan Liu[1] [1]Calterah Semiconductor Technology Co., Ltd.	**EuRAD11-1** The EMSIG and its activities in the UK Carmine Clemente[1] [1]University of Strathclyde
11:30 – 11:50	**EuRAD08-2** CohMap: Radar-Based Mapping Algorithm using Coherence Weighting and MIMO-SAR Processing Daniel Louback S. Lubanco[1], Ahmed Hashem[1], Reinhard Feger[1] [1]Johannes Kepler University Linz	**EuRAD09-2** Circular Arc Array Design for Peak Sidelobe Level Minimization in Wide-FOV Radar Systems Masoud Dorvash[1], Oliver Lang[1], Reinhard Feger[1] [1]Johannes Kepler University Linz - JKU	**EuRAD10-2** Spatio-Temporal Mamba for Detection of Small Targets in Cluttered Radar Environments Harry Braam[1], Phillip van Dorp[2], Bas Jacobs[2], Ronny Guendel[2] [1]University of Twente, [2]TNO	**EuRAD11-2** Panel Discussion Philip Clark[1], Marina Gashinova[2], Aled Catherall[3], Stephanie Ford[4], Sam Stevenson[5] [1]BAE Systems, [2]University of Birmingham, [3]PlexTek, [4]Defence Science and Technology Laboratory, [5]Leonardo
11:50 – 12:10	**EuRAD08-3** Attitude and Rotational Ego-motion estimation for Air Taxis using Automotive MIMO Radar Vignesh Gopalan Jeyaraman[1], Gunnar Briese[1], Patrick Wallrath[1] [1]Fraunhofer Institute for High Frequency Physics and Radar Techniques (FHR)	**EuRAD09-3** Ghost Suppression and Weak Target Detection by Switching Prior on SBL-based DoA Estimation Yufeng Fu[1], Shingo Jinno[1], yoshie kobayashi[1], Sungwoo Cha[1] [1]MIRISE Technologies Corporation	**EuRAD10-3** Self-supervised training of a detector with airborne maritime radar data Christian Blackman[1], Murat Uney[2], Yalin Zheng[1], David Greig[3] [1]University of Liverpool, [2]University of Edinburgh, [3]Leonardo UK	
12:10 – 12:30	**EuRAD08-4** Harmonic Tag Based AGV Localization for Automated Parcel Handling at 61/122 GHz Patrick Kwiatkowski[1], Irfan Fachrudin Priyanta[2], Dirk Höning[3], Steffen Hansen[4], Sönke Kauffmann[3], Tobias T. Braun[1], Nils Pohl[1] [1]Ruhr University Bochum, [2]TU Dortmund University, [3]Fraunhofer Institute for Material Flow and Logistics IML, [4]Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR	**EuRAD09-4** An Efficient Hardware-Oriented 2D DoA Engine Based on Conditional DML and DBF Fusion Peng Zhang[1], Yang Li[2], Jie Zhu[2], Bo Wang[2], Dixian Zhao[1] [1]Southeast University (China), [2]Purple Mountain Laboratories	**EuRAD10-4** Improving Adverse Weather Detection through Radar-Centric Early Fusion with Lidar Features Christof Leitgeb[1], Thomas Puchleitner[1], Daniel Watzenig[2] [1]Infineon Technologies AG, [2]Graz University of Technology, Austria	
12:30 – 12:50	**EuRAD08-5** Investigation of Forward Looking SAR for Advanced Road Debris Detection Theresa Noegel[1], Marc Reinecke[1], Oliver Sura[1], Max Heidbrink[1], Martin Vossiek[1] [1]Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany	**EuRAD09-5** Synthetic Aperture Based Ghost Image Suppression for Sparse Array Millimeter Wave Radar Seungjae Lee[1], Shouhei Kidera[1] [1]The University of Electro-Communications	**EuRAD10-5** Hybrid Classification-Regression Network for Multi-Target DOA Estimation Mingjie Shi[1], Xin Zhang[2], Yu Su[2], Xuefeng Yin[1], Gang Li[2], Xuyang Li[2] [1]Tongji University, [2]SINPRO Intelligent Technology(shanghai) Co., Ltd.	

THURSDAY 14:10 – 16:10

ROOM Room 17

EuMC/EuRAD01
Special Session UKRI/EPSRC Selected Research Projects in mmWave and THz Research

Chair: Djuradj Budimir[1]

[1]University of Westminster

14:10 – 14:25 **EuMC/EuRAD01-1**
Transmission Channels Measurements and Communication System Design for Future MM-wave Communications (mm Wave TRACCS)

Izzat Darwazeh[1]

[1]University College London

14:25 – 14:40 **EuMC/EuRAD01-2**
All Analogue Full-duplex Dual-receiver Radio for Wideband Mm-wave Communications

Dariush Mirshekar-Syahkal[1], Djuradj Budimir[2]

[1]University of Essex, [2]University of Westminster

14:40 – 14:55 **EuMC/EuRAD01-3**
On-wafer microwave metrology for future industrial applications (On-Micro)

Zhirun Hu[1]

[1]University of Manchester

14:55 – 15:10 **EuMC/EuRAD01-4**
Beyond-Diagonal Reconfigurable Intelligent Surfaces

Bruno Clerckx[1]

[1]Imperial College London

15:10 – 15:25 **EuMC/EuRAD01-5**
Microplastic sensors based on terahertz metasurface

SaeJune Park[1]

[1]Queen Mary University of London

15:25 – 15:40 **EuMC/EuRAD01-6**
Active intelligent Reconfigurable surfaces for 6G wireless COMmunications (AR-COM)

Qammer H. Abbasi[1]

[1]University of Glasgow

15:40 – 15:55 **EuMC/EuRAD01-7**
EPSRC Microwave, Millimetre-Wave and THz Project Portfolio and Future Strategic Directions and Ambitions

Stephanie Russin[1]

[1]UKRI Engineering and Physical Sciences Research Council

Room 6

EuMC48
Channel Characterization and OTA Testing

Chair: Marianna Ivashina[1]
Co-Chair: Alexander Kölpin[2]

[1]Chalmers University, [2]Hamburg University of Technology

14:10 – 14:30 **EuMC48-1**
Photonic Vector Network Analyzer for Agile Channel Sounding Across the Sub-THz Spectrum

Ramez Askar[1], Garrit Schwanke[1], Timo Noack[2], Nico Vieweg[3], Thomas Puppe[3], Sebastian Müller[3], Albrecht Neudecker[3], Robert Kohlhass[1], Michael Peter[1], Gerd Hechtfischer[2], Taro Eichler[2]

[1]Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute, HHI, [2]Rohde & Schwarz GmbH & Co. KG, [3]Toptica Photonics SE

14:30 – 14:50 **EuMC48-2**
Characteristics of the Sub-THz Radio Channel at 158 and 300 GHz in a Street Canyon Scenario

Alper Schultze[1], Michael Peter[1], Wilhelm Keusgen[2], Taro Eichler[3]

[1]Fraunhofer Heinrich Hertz Institute, [2] Technische Universität Berlin, [3]Rohde & Schwarz

14:50 – 15:10 **EuMC48-3**
Blind Maximum Ratio Combining via Second-Order Statistics under Unequal Noise Powers

Constantin Wimmer[1], Marco Krondorf[1]

[1]HTWK Leipzig

15:10 – 15:30 **EuMC48-4**
A Novel Technique for Antenna Radiation Pattern Measurement With Incoherent Signal Sources

Sarah Klass[1], Bartosz Tegowski[1], Alexander Kölpin[1]

[1]Hamburg University of Technology (TUHH), Institute of High-Frequency Technology

15:30 – 15:50 **EuMC48-5**
Characterization of a Fully Integrated 100GHz Electronic Beamsteering Gap-Waveguide Phased-Array Front End in Reverberation Chamber

Pavlo Krasov[1], Viktor Chernikov[1], Magnus Franzén[2], Stefano Vindemmio[2], Lawrence Moore[3], Anders Fransson[3], Marianna Ivashina[1]

[1]Chalmers University of Technology, [2]Bluetest AB, [3]Ericsson AB

15:50 – 16:10 **EuMC48-6**
Antenna Array Embedded Element Efficiency Measurements Using Reverberation Chamber

Yared Leul Hagos[1], Thijs Brouwers[2], Tudor Popa[2], Bart Smolders[1], Diego Caratelli[1], Sander Bronckers[1]

[1]Eindhoven University of Technology (TU/e), [2]The Antenna Company

Room 7

EuMC49
Front-End and Transceiver Modules, System-in-Package Technologies

Chair: Franco Ramírez[1]
Co-Chair: Cristina Andrei[2]

[1]Universidad de Cantabria, [2]Brandenburg Technical University Cottbus-Senftenberg

14:10 – 14:30 **EuMC49-1**
A Hybrid CMOS/GaAs D-band Multi-Channel RX System-in-Package

Abdelaziz Hamani[1], José-Luis González-Jiménez[1], Florent Gamand[2], Vincent Gidel[2], Alexandre Siligaris[1], Guillaume Ducournau[1], Francesco Foglia Manzillo[1], Antonio Clemente[1], Renaud MOUROT[1], Eric MERCIER[1], Emmanuel Froger[4], Christophe Gaquiere[5], Michel Ramez[5]

[1]University of Grenoble Alpes, [2]MC2-Technologies, [3]University of Lille, [4]Nokia, [5]EPROM

14:30 – 14:50 **EuMC49-2**
Enabling Circuits for 6G FR3 RF Front-End Modules

Florinel Balteanu[1]

[1]Skyworks Solutions Inc.

14:50 – 15:10 **EuMC49-3**
A Q-band Manchester-Encoded 1-Bit BPDSM Transmitter with SB-APDNP Passive Tripler

Yuki Fujiya[1], Ryunosuke Saito[1], Ryosei Miyagawa[1], Tomoyuki Furuichi[1], Noriharu Suematsu[1]

[1]Research Institute of Electrical Communication, Tohoku University

15:10 – 15:30 **EuMC49-4**
Packaged High Power broadband Front-End for Q-band 36-42GHz 5G TN & NTN solutions

Mohammed Ayad[1]

[1]United Monolithic Semiconcuctors SAS

15:30 – 15:50 **EuMC49-5**
An All-Digital Frequency-Agile RF-PWM Modulator for Software-Defined Transmitters

Deguang Sun[1], Andreas Wentzel[1]

[1]Ferdinand-Braun-Institut

15:50 – 16:10 **EuMC49-6**
Novel GaN-based Full-Duplex Front-End Topology

Valerie Fetzer[1], Andreas Wentzel[1], Deguang Sun[1], Megha Krishnaji Rao[1], Thomas Hoffmann[1], Patrick Scheele[1], Matthias Rudolph[2]

[1]Ferdinand Braun Institut (FBH), [2]Brandenburg University of Technology Cottbus-Senftenberg (BTU), Ferdinand-Braun-Institut gGmbH, Leibniz-Institut für Höchstfrequenztechnik (FBH)

Room 13

EuMC50
Periodic and Quasi-Periodic Structures

Chair: María García-Vigueras[1]
Co-Chair: Guillaume Ducournau[2]

[1]IETR, INSA Rennes, [2]University of Lille

14:10 – 14:30 **EuMC50-1**
Compact and Asymmetric Dipole Antenna Array Exhibiting High Mutual Coupling via Leaky-Wave Radiation Behavior

Jae-Yeong Lee[1], Jae-Yeong Lee[2], Taehyung Kim[3], Wonbin Hong[4]

[1]Electronics and Telecommunications Research Institute (ETRI), [2]University of Science and Technology, Korea, [3]ANSYS Korea, [4]Pohang University of Science and Technology (POSTECH)

14:30 – 14:50 **EuMC50-2**
Reflective Surfaces in D Band on Quartz and PET substrates

Dylan Leborgne[1], Amani Cherif[1], Mohamed Himdi[1], Frederic Dutin[2], Guillaume Ducournau[2], Olivier Lafond[1], Xavier Castel[1], Ronan Sauleau[1]

[1]Institut d'Electronique et des Technologies du numéRique- Université de Rennes, [2]IEMN - CNRS 8520

14:50 – 15:10 **EuMC50-3**
Design Method of Topological Waveguides Using Two 2-D Hexagonal Distributed Transmission Line Models

Hayato Osuna[1], Tsutomu Nagayama[1], Seiji Fukushima[1], Toshio Watanabe[1]

[1]Kagoshima University

15:10 – 15:30 **EuMC50-4**
Metallo-Dielectric Hard-Soft EBG Structure for E-band Automotive Radar Applications

Felix Liu[1], Alejandro García-Tejero[2], Oskar Zetterström[3], Oscar Quevedo-Teruel[3], Francesco Merli[2]

[1]HUBER+SUHNER AG, KTH - Royal Institute of Technology, [2]HUBER+SUHNER AG, [3]KTH - Royal Institute of Technology

15:30 – 15:50 **EuMC50-5**
Design of Plasma-Enabled Reconfigurable Electromagnetic Absorbers

Krushna Kanth Varikuntla[1], Okan Yurduseven[2], Babar Abbasi Muhammad Ali[2]

[1]Queen's University Belfast, [2]Queen's University Belfast

15:50 – 16:10 **EuMC50-6**
Tunable Waveguide Bragg Filter using Liquid Crystal Filled Unit Cells

Tobias Bader[1], Simon Pietschmann[2], Gerald Gold[2]

[1]Friedrich Alexander University of Erlangen-Nürnberg, [2]Friedrich-Alexander-Universität Erlangen-Nürnberg

THURSDAY 14:10 – 16:10

ROOM	Room 1	Room 4	Room 12
	EuRAD12 Joint Sensing and Communications Chair: Matthew Ritchie[1] Co-Chair: Faruk Uysal[2] [1]University College London, [2]TNO	**EuRAD13** Medical and Health Applications Chair: Francesco Fioranelli[1] Co-Chair: Aled Catherall[2] [1]TU Delft, [2]PlexTek	**EuRAD14** Radar Beamforming and Frontend Technologies Chair: Ronny Harmanny[1] Co-Chair: Daniel Andre[2] [1]Thales Nederland B.V., [2]Cranfield University UK
14:10 – 14:30	**EuRAD12-1** Performance Improvement of OFDM-Based Forward Scatter Radar using Golay Codes: Experimental Validation Abdollah Ajorloo[1], Andrea Quirini[1], Fabiola Colone[1], Pierfrancesco Lombardo[1] [1]Sapienza University of Rome	**EuRAD13-1** Reduction of Radar Channel Spatial Variability in Medical Radar Applications by Means of Large Antenna Arrays Bartosz Tegowski[1], Alexander Kölpin[1] [1]Hamburg University of Technology (TUHH)	**EuRAD14-1** Fully Digital Beamforming Receiver with Improved Spur Suppression Using Fractional Frequency Dispersion Atsuro SAMBAYASHI[1], Osamu Wada[1], Nobuhiko ANDO[1] [1]MitsubishiElectric Corporation
14:30 – 14:50	**EuRAD12-2** Multibeam Sensing with Dedicated Slot in Cellular-based ISAC Systems Taewon Jeong[1], Xueyun Long[1], Lucas Giroto[2], Umut Utku Erdem[1], Thomas Zwick[1] [1]Karlsruhe Institut of Technology (KIT)/ Institute of Radio Frequency Engineering and Electronics (IHE), [2]Nokia Bell Labs Stuttgart	**EuRAD13-2** A DSIL Low-IF Radar System With a Dual-Triplet Non-Uniform Circular SRR for On-Wrist Vital Sign Sensing Chinmaya Tripathy[1], Hsuan-Yung Chen[1], Hao-Cheng Wang[1], Kuan-Yuan Lee[1], Mohammed Nurain Mustaque[1], Hao-To Wang[2], Tzyy-Sheng Horng[1] [1]National Sun Yat-Sen University, [2]Xunweitech	**EuRAD14-2** Terabit-per-Second Real-Time Chirp Synthesizer: An Ultra-Wideband Multi-Channel DDS Approach for RFSoC Radar Platforms Christian Gesell[1], Lukas Paulus[1], Simone Steinhauser[1], Julian Aguilar[1], Christian Waldschmidt[1] [1]University of Ulm
14:50 – 15:10	**EuRAD12-3** Analytical PSLR and ISLR Expressions for OTFS Radar Performance Evaluation Sirine Hamrouni[1], Jean-Yves Baudais[2], Stéphane Méric[1], Adnane Cherif[3] [1]IETR INSA of Rennes, [2]IETR INSA RENNES, France, [3]ATSSEE Laboratory, Science Faculty of Tunis, University of Tunis El Manar	**EuRAD13-3** Remote Respiratory Detection Using a Single UAV-Mounted FMCW Radar with Digital Beamforming Khaldoon Ishmael[1], Olga Boric-Lubecke[2] [1]Naval Information Warfare Center Pacific, [2]University of Hawaii at Manoa, College of Engineering	**EuRAD14-3** A 120/240 GHz Dualband FMCW Radar Frontend Maurice Schepers[1], Christian Bredendiek[1], Peter Knott[2] [1]Fraunhofer FHR, Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR, Wachtberg, Germany, [2]Chair of Radar Systems Engineering, Institute of High Frequency Technology, RWTH Aachen University, Aachen, Germany
15:10 – 15:30	**EuRAD12-4** An ISAC field demonstrator System Roland Oechslin[1], Timon Schmid[2], Andreas Zutter[2] [1]armasuisse, [2]Precisionwave AG	**EuRAD13-4** A TDD-Enabled FMCW Radar System with Self-Interference Mitigation for Vital Sign Detection Sarina Sabouri[1], Anantha Chandrakasan[1], Negar Reiskarimian[1] [1]Massachusetts Institute of Technology	**EuRAD14-4** A Fully-Digital NCO-Based Direct Digital Synthesis Architecture for Wideband Transmit Beamforming Fabia Arshad[1], Andrea Quirini[1], Pierfrancesco Lombardo[1] [1]Sapienza University of Rome, Italy
15:30 – 15:50	**EuRAD12-5** A System-Level Simulation for Multi-TRP 5G NR ISAC: Resolving Spatial and Velocity Ambiguities Xinze Lyu[1], Philipp Geuer[1], Joerg Huschke[1], Christopher Mollén[1], Johannes Nygren[1], Aleksandar Ichkov[1], Rui He[1], Narendar Madhavan[1] [1]Ericsson Research	**EuRAD13-5** A Pulse Conversion-based Heart Rate Estimation Method for Concurrent Multi-Beam Passive Radar Ziyin Xu[1], Heng Zhao[1], Junyu Wang[1], Shuaiming Huang[1], Hong Hong[1] [1]Nanjing University of Science and Technology	**EuRAD14-5** Implementation of Phased Array Noise Radar and FMCW Radar Systems on AMD's Radio Frequency System-on-a-Chip based sensor Colin Horne[1], Matthew Ritchie[1], Andrew Stove[2], Nial Peters[3] [1]University College London, [2]Stove Specialties, [3]Plextek UK
15:50 – 16:10			**EuRAD14-6** Large-Aperture mmWave MIMO Cascaded Radar Seifallah Jardak[1] [1]Bristol Research & Innovation Laboratory, Toshiba Europe Ltd., Bristol, UK

THURSDAY 16:50 – 18:30

ROOM **Room 8 - 11**

EuMW03
EuMW/EuMC Closing

16:50 – 17:00 Session Welcome

Nick Ridler[1]

[1]EuMC Chair

17:00 – 17:30 The Critical Role of RF/Microwave Engineering in Quantum Technology

Tobias Lindstrom[1]

[1]National Physical Laboratory (NPL)

Quantum technologies have rapidly progressed from academic research to emerging commercial applications. Many of these technologies rely on RF and microwave signals for device control and readout. While early prototypes could leverage equipment originally developed for the telecom market, the accelerating scale of, in particular, quantum computing is now increasingly demanding purpose-built, high-performance solutions capable of managing thousands of microwave channels.

Looking ahead, in a few years, there will be error corrected quantum computers requiring extremely low latency feedback and high instruction bandwidth, placing unprecedented demands on instrumentation, interconnects, and packaging. These challenges will push RF and microwave engineering to new performance limits.

This presentation will briefly explain how RF and microwave engineering underpins quantum technologies, outline the current state of the field, and discuss the expected demands over the next 5-10 years.

17:30 – 18:00 Development of RF and Microwave Solutions for Quantum Control and Measurement

Alisa Danilenko[1]

[1]Keysight Technologies Inc., USA

Quantum computing continues to attract intense interest across both research and industry, but for these systems to become practically useful, quantum processors must scale far beyond their current size. As qubit counts grow, the methods used for their control and read out must scale accordingly. In this presentation, the need for RF and microwave control and measurement signals in quantum computing will be described, with an emphasis on superconducting qubit architectures. Current approaches to implementing this control with then be discussed, examining how control systems are evolving, and must continue to evolve, to meet the demands of increasingly complex quantum processor units.

18:00 – 18:15 EuMC Best Paper Awards

Jiafeng Zhou[1], Roberto Gómez-García[2]

[1]EuMC TPC Chair, [2]EuMC TPC Co-chair

18:15 – 18:25 Closing Remarks

Stephen Harman[1]

[1]EuMW 2026 General Chair

18:25 – 18:30 Invitation to EuMW 2027

Paolo Colantonio[1]

[1]EuMW 2027 General Chair

THURSDAY 16:50 – 18:30

ROOM	Room 1	Room 4	Room 12	Room 13
	EuRAD15 Distributed Radar Synchronisation and Sensing Chair: Elisa Giusti[1] Co-Chair: Michail Antoniou[2] [1]CNIT, [2]Univerisity of Birmingham	**EuRAD16** Industrial and Civilian Applications Chair: André Bourdoux[1] Co-Chair: Nils Pohl[2] [1]IMEC, [2]Ruhr University Bochum	**EuRAD17** MIMO Radars: Array Design, Target Detection, DOA Estimation Chair: Fabiola Colone[1] Co-Chair: Matthew Ritchie[2] [1]Sapienza University of Rome, [2]University College London	**EuRAD18** AI for Short Range Radar Applications Chair: Julien Le Kernec[1] Co-Chair: Christos Ilioudis[2] [1]University of Glasgow, [2]Cranfield University
16:50 – 17:10	**EuRAD15-1** Impact of Distributed MIMO Radar Placement and Configuration on 3D Human Reconstruction Kuitong Lou[1], Dingyang Wang[1], Alexander Yarovoy[1], Francesco Fioranelli[1] [1]Delft University of Technology	**EuRAD16-1** Child Presence Detection in Vehicles: A Study on the Effectiveness of UWB Radar Antenna Concepts with Infant Test Dummies Christoph Hermann[1], Walther Pachler[1], Filippo Casamassima[1], Erich Leitgeb[2], Harald Witschnig[1] [1]Infineon Technologies Austria AG, Graz, Austria, [2]Graz University of Technology, Austria	**EuRAD17-1** Preliminary Experimental Results of a MIMO Forward Scatter Radar using Frequency Division Abdollah Ajorloo[1], Stefano Amato Ciciretti[1], Matteo Zorzi[1], Carlo Bongioanni[2], Fabiola Colone[1] [1]Sapienza University of Rome, [2]School of Advanced Defence Studies, Rome, Italy	**EuRAD18-1** A Self-Supervised Continual Foundation Model for Configuration-Agnostic Radar Gesture Recognition Tobias Sukianto[1], Matthias Wagner[2], Wei Liu[3], Sarah Seifi[3], Cecilia Carbonelli[3], Mario Huemer[2] [1]Infineon Technologies AG / Johannes Kepler University Linz, [2]Johannes Kepler University Linz, [3]Infineon Technologies AG
17:10 – 17:30	**EuRAD15-2** How Submillimetre Mounting Errors Degrade Beamforming in Coherent Radar Networks Martin Grünbacher[1], Mayeul Jeannin[2], Matthias Wagner[3], Mario Huemer[3] [1]Infineon Technologies, Austria / Johannes Kepler University Linz, [2]Infineon Technologies AG, [3]Johannes Kepler University Linz	**EuRAD16-2** "ICDUWB-26" Dataset for Infant In-Car Detection Using Ultra-Wideband Radar Lukas Klantschnig[1], Filippo Casamassima[1], Christoph Hermann[1], Harald Witschnig[1], Franz Pernkopf[2] [1]Infineon Technologies Austria AG, [2]Signal Processing and Speech Communication Laboratory, Graz University of Technology, Austria	**EuRAD17-2** Detector-less Coherent Integration-based Doppler Division MIMO Decoder Filip Alexandru Rosu[1], Adriana Brigalda[1] [1]NXP Semiconductors	**EuRAD18-2** Smart Infrastructure Monitoring based on Ground Penetrating Radar with Explainable and Green AI Ingrid Ullmann[1], Vasileios Belagiannis[2] [1]Institute of Microwaves and Photonics, Friedrich-Alexander-Universität Erlangen-Nürnberg, [2] Chair of Multimedia Communications and Signal Processing, Friedrich-Alexander-Universität Erlangen-Nürnberg
17:30 – 17:50	**EuRAD15-3** Comparison of a Signal-Processing-Synchronized Radar Network and a Repeater-Based Radar Network David Werbunat[1], Julian Aguilar[1], Christina Bonfert[1], Christian Waldschmidt[1] [1]Ulm University	**EuRAD16-3** Measurement Uncertainty in Vital Sign Detection with Frequency-Comb Continuous-Wave Radar on Unmanned Aerial Vehicles Dominik Martin Spale[1], Gunnar Gidion[1], Eric Maier[2], Katrin Schmitt[2], Stefan Johann Rupitsch[1] [1]University of Freiburg, [2]Fraunhofer Institute for Physical Measurement Techniques (IPM)	**EuRAD17-3** Electromagnetically Informed DoA Resolution Analysis of Bumper-Integrated 77 GHz Automotive MIMO Radar Adrian Lamoral-Coines[1], Yanki Aslan[1], Alexander Yarovoy[1], Rabia Syeda[2], Nikita Petrov[2] [1]TU Delft, MS3, [2]NXP	**EuRAD18-3** Parametric Modeling of Cardiac Radar Signatures via Symbolic Regression Kristina Hess[1], Bartosz Tegowski[1], Frederik Vollmer[1], Alexander Kölpin[1] [1]Hamburg University of Technology (TUHH), Hamburg, Germany
17:50 – 18:10	**EuRAD15-4** Target Detection Performance of a Synchronized Distributed Bistatic Radar System at V-band Takumi Harada[1], Lijia Liu[1], Atsushi Kanno[1] [1]Nagoya Institute of Technology	**EuRAD16-4** Detecting Defects Inside Non-unity Refractive Index Material Based on THz SAR Imaging Nancy Mary Rozario[1], Yevhen Ivanenko[1], Mats I. Pettersson[1], Vanja Lindberg[1], Viet Thuy Vu[1] [1]Blekinge Institute of Technology	**EuRAD17-4** Compact Near-Field Self-Calibration of Sparse MIMO Array Radar via Two-Range Interferometric Processing Seo-Ryeong Choi[1], Hyun-Hwan Choi[1], Yong Tae[1], Sungho Lee[2], Sangwook Nam[3], Byung-Sung Kim[1] [1]Sungkyunkwan University, [2]Korea Electronics Technology Institute, [3]Seoul National University	**EuRAD18-4** Resolving Spatial Ambiguity in FMCW Radar for In-Air Writing Using Class-Conditioned Diffusion Salah Abouzaid[1], Nils Pohl[2] [1]Ruhr University Bochum, [2]Ruhr University Bochum / Fraunhofer FHR
18:10 – 18:30	**EuRAD15-5** Frequency and Phase Synchronization Method for Distributed Wireless Sensor Network based on Dynamic Diffusion Kalman Filter Yonglin Yu[1], Jun Wang[1], Xueyin Geng[1], Bin Yang[1] [1]Beihang University	**EuRAD16-5** On-Axis Power Density of Superquadric Reflectors in the Fresnel Region for Harmonic Radar Tracking Applications Dominique Henry[1], Julia Dillard[1], Mathieu Lihoreau[2], Hervé Aubert[1] [1]LAAS-CNRS, [2]CRCA-CBI, CNRS	**EuRAD17-5** Design of Sparse Modular MIMO Radar Arrays under Coherent, Quasi-Coherent, and Incoherent Operation Christian Kurtscheid[1], Aitor Correas-Serrano[1], Jan Schröder[1], Maria A. Gonzalez Huici[1] [1]Fraunhofer FHR	**EuRAD18-5** Temporal Fusion Strategies for Human and Vehicle Classification using miniature mmWave Radar Christos Ilioudis[1], Alessio Balleri[1], Damien Clarke[2], Aled Catherall[2] [1]Cranfield University, [2]Plextek Ltd

FRIDAY 08:30 – 10:30

ROOM	Room 1	Room 4	Room 6	Room 12
	EuRAD19 Defence and Multistatic Radar Imaging Chair: Stefan Scholl[1] Co-Chair: Marco Martorella[2] [1]Fraunhofer FHR (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR), [2]Univ. of Pisa	**EuRAD20** Applied Signal Processing and Systems Chair: Kevin Chetty[1] Co-Chair: Andrea Quirini[2] [1]University College London, [2]Sapienza University of Rome	**EuRAD21** Applications of High-Resolution SAR Systems Chair: Pia Addabbo[1] Co-Chair: Ilaria Nasso[2] [1]Università Telematica Giustino Fortunato, [2]Sapienza University of Rome	**EuRAD23** Cognitive Techniques, Sensor Tasking and Machine Learning Chair: Mayazzurra Ruggiano[1] Co-Chair: Fatemeh Norouzian[2] [1]Thales Nederland B.V., [2]University of Birmingham
08:30 – 08:50	**EuRAD19-1** Envelope-Constrained BRSR-OpGAN for Blind Radar Pulse Transient Restoration Ana Claudia Soares Simoes[1], Mariane Rembold Petraglia[2] [1]Brazilian Navy Research Institute, [2]Federal University of Rio de Janeiro	**EuRAD20-1** Coherent Band Combination for a Multi-Band Radar from 24 to 182 GHz using Compressed Sensing Nico Riese[1], Christina Bonfert[1], Alexander Grathwohl[1], David Werbunat[1], Christian Waldschmidt[1] [1]Ulm University	**EuRAD21-1** Range Resolution of Narrowband Near-field SAR Marcin Wachowiak[1], André Bourdoux[2], Sofie Pollin[1] [1]imec, KU Leuven, [2]imec	**EuRAD23-1** Enhancing Automotive Radar Point Clouds through Cognitive Modulation Adaptation Yun Kuan Su[1], Benedikt Lösch[1], Nicolai Kern[1], Alexander Yarovoy[2], Francesco Fioranelli[2] [1]Robert Bosch GmbH, [2]Delft University of Technology
08:50 – 09:10	**EuRAD19-2** Low-Complexity Radar Emitter Classification for Sub-Nyquist Sampling Receivers Stefan Scholl[1] [1]Fraunhofer FHR (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR)	**EuRAD20-2** High-Resolution Motion Tracking in Automotive Crash Tests Using mm-Wave Harmonic Radar Steffen Hansen[1], Gunnar Briese[1], Dominic Funke[1], Christian Krebs[1], Jan Wessel[1], Nils Pohl[2] [1]Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR, [2]Ruhr-Universität Bochum	**EuRAD21-2** Realistic Ray-Tracing-Based Simulation of Wave Propagation Through Dielectrics for Subsurface Radar Imaging Applications Peter Mergenthaler[1], Ingrid Ullmann[1], Christian Schüßler[2], Johanna Bräunig[2], Konstantin Root[3], Georg Schnattinger[3], Marcel Hoffmann[2], Martin Vossiek[1] [1]Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg, [2]fiveD GmbH, [3]Rohde & Schwarz GmbH & Co. KG	**EuRAD23-2** Subarray-Based Scheduling and Resource Allocation for Multi-Function Radar via Reinforcement Learning Mohammadhossein Alishahi[1], Raviraj S. Adve[1], Zhen Ding[2], Peter W. Moo[2] [1]University of Toronto, [2]Radar Sensing and Exploitation Section, Defence Research and Development Canada (DRDC), Ottawa, Canada
09:10 – 09:30	**EuRAD19-3** Blind Receiver Scheduling for Electronic Support Using Machine Learning Vaibhav Sekhar[1], Gottfried Lechner[2], Khoa Nguyen[2], Simon Faulkner[1] [1]Defence Science and Technology Group, [2]Adelaide University	**EuRAD20-3** Millimeter Wave Radar Image Correlation Based Pedestrian Detection in Mobile Radar Platform Shunsuke Tanaka[1], Shouhei Kidera[1] [1]The University of Electro-Communications	**EuRAD21-3** A 77GHz Compact Fully Polarimetric SAR Imaging System for Non-Destructive Test Qiushi Xiang[1], Kamran Entesari[1], zibo gong[1], Mohamad Mahdi Rajaei Rizi[1] [1]Texas A&M University	**EuRAD23-3** Temporal Graph Neural Network for ISAC Target Detection and Tracking Saiedeh Maboud Sanaie[1], Thomas Dallmann[1] [1]Ilmenau University of Technology
09:30 – 09:50	**EuRAD19-4** Parameter-Level Spin Estimation of Space Targets Using Multi-Perspective InISAR Bangjie Zhang[1], Marco Martorella[1], Marina Gashinova[1] [1]University of Birmingham	**EuRAD20-4** Joint Memory and Matrix Optimization for JDL STAP with Non-Homogeneous Detection on Embedded MPSoC Yu-Chieh Chu[1], Jen-Ming Wu[2] [1] National Tsing Hua University, [2]National Tsing Hua University	**EuRAD21-4** Implementation of a Wideband L-band FMCW SAR for High-Resolution UAV-Borne Imaging Chanhee Lee[1], Yongsun Yoo[2], Junhyun Kim[1], Yeong-Ju Seo[1], Yun-sung Kim[1], Jong-Won Yu[1] [1]Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea, [2]Korea Aerospace University	**EuRAD23-4** Open-Set Radar Jamming Pattern Recognition via Ensemble Multiple Time-Frequency Features Binbin Chen[1] [1]Nanjing University of Aeronautics and Astronautics
09:50 – 10:10	**EuRAD19-5** Reduced Resource Data Acquisition Method for Bistatic Space-to-Ground SAR using Sentinel-1 as a Transmitter of Opportunity for MicroSTAR Reev Dass[1] [1]Council for Scientific and Industrial Research (CSIR)	**EuRAD20-5** CW Doppler Radars for Displacement Detection: Phase Interaction from Multiple Moving Targets Fabrizio Lorenzo Carcione[1], Victor M. Lubecke[2], Olga Boric-Lubecke[2], Emanuele Cardillo[1] [1]University of Messina, Italy, [2]University of Hawaii at Manoa, College of Engineering	**EuRAD21-5** Platform Velocity Estimation from Sub-Aperture Range-Doppler Maps Using Cross-Range Consistency Optimization Ahmed Hashem[1], Michael Fritzenwallner[1], Reinhard Feger[1] [1]Johannes Kepler University Linz	**EuRAD23-5** Lightweight Object Detection with Long-Term Temporal Fusion for 4D Automotive Radar bin tan[1], Yu Su[1], Wanwan Zhao[1], Xin Yang[1], Gang Li[1], Xuyang Li[1] [1]SINPRO (Shanghai) Intelligent Technology Co., Ltd.
10:10 – 10:30			**EuRAD21-6** A Framework for High-Resolution Forward-Looking Imaging of High-Speed Moving Platforms Lingyun Ren[1] [1]Nanjing University of Aeronautics and Astronautics	

FRIDAY 08:30 – 10:30

ROOM **Room 14**

EuRAD24
SAR Imaging and Moving Target Refocusing

Chair: Debora Pastina[1]
Co-Chair: Laurent Ferro-Famil[2]
[1]Sapienza University of Rome, [2]ISAE-SUPAERO, Université de Toulouse

08:30 – 08:50

EuRAD24-1
Improving Moving Target Imaging With Multistatic Synthetic Aperture Radar

Francis Watson[1], Daniel Andre[2]
[1]University of Manchester, [2]Cranfield University

08:50 – 09:10

EuRAD24-2
Non-Coherent Video Circular SAR for Moving Target Detection and Refocusing

Cao Hong Phuc Nguyen[1], Xiaojing Huang[1], J. Andrew Zhang[1]
[1]University of Technology Sydney

09:10 – 09:30

EuRAD24-3
Joint Estimate of Acceleration and Velocity of Moving Targets by using Along-track SAR Formations

Giulia Pisani[1], Debora Pastina[1], Pierfrancesco Lombardo[1]
[1]Sapienza University of Rome

09:30 – 09:50

EuRAD24-4
Forward-Looking SAR Imaging of Non-Cooperative Moving Targets

Giulio Merciadri[1], Adnan Al Baba[2], Marc Bauduin[2], Maria-Sabrina Greco[3], Fabrizio Lombardini[3], Fulvio Gini[3], André Bourdoux[2]
[1]imec and University of Pisa, [2]imec, [3]University of Pisa

09:50 – 10:10

EuRAD24-5
Satellite-Based Bistatic SAR/ISAR Techniques for Maritime Situational Awareness

Fabrizio Santi[1], Ilaria Nasso[1]
[1]Sapienza University of Rome

10:10 – 10:30

EuRAD24-6
Phase and Timing Synchronization Technique for Distributed Synthetic Aperture Radar Systems

Greta Zefi[1], Carmine Clemente[2]
[1]University of Strathclyde, Glasgow, United Kingdom, [2]University of Strathclyde

FRIDAY 11:10 – 12:50

ROOM	Room 1	Room 4	Room 6	Room 12
	EuRAD25 Space Domain and Space Situational Awareness Chair: Pierfrancesco Lombardo[1] Co-Chair: Faruk Uysal[2] [1]Sapienza University of Rome, [2]TNO	**EuRAD26** Geoscience, Weather and Environmental Remote Sensing Chair: Felix Yanovsky[1] Co-Chair: André Bourdoux[2] [1]National University Kyiv Aviation Institute, Kyiv, Ukraine, [2]IMEC	**EuRAD27** Activity, Behavior and Infrastructure Monitoring Chair: Martin Vossiek[1] Co-Chair: Bashar Ahmad[2] [1]Friedrich-Alexander University Erlangen-Nürnberg (FAU), [2]BAE Systems	**EuRAD28** Detection and Tracking Chair: Fabrizio Santi[1] Co-Chair: Mohammed Jahangir[2] [1]Sapienza University of Rome, [2]University of Birmingham, UK
11:10 – 11:30	**EuRAD25-1** Sensitivity Analysis for Space-Based ISAR, MIMO-ISAR, and Phased-MIMO-ISAR Imaging Anum Pirkani[1], Alexander Fernihough[1], Marco Martorella[1], Marina Gashinova[1] [1]University of Birmingham	**EuRAD26-1** Joint Estimation of Fall Velocity, Radial Wind, and Median Drop Diameter from Doppler Spectra of a Fast-Scanning Weather Radar Tworit Dash[1], Oleg Krasnov[1], Hans Driessen[1], Alexander Yarovoy[1] [1]Delft University of Technology	**EuRAD27-1** Towards a Radio-Frequency Native Skeletal Model Chengyang Zhang[1], Chuanwei Ding[1], Heng Zhao[1], Qing Zhou[1], Xiaohua Zhu[1], Hong Hong[1] [1]Nanjing University of Science and Technology, China	**EuRAD28-1** Detection of Wildlife-Snares using UAV-Borne SAR Tim Köhler[1], Alexander Grathwohl[1], Stephen Paine[2], David Gaynor[3], Christian Waldschmidt[1] [1]Institute of Microwave Engineering, Ulm University, [2]University of Cape Town, [3]University of Pretoria, South Africa
11:30 – 11:50	**EuRAD25-2** Semantic Learning of Satellite Morphology using in-orbit Inverse Synthetic Aperture Radar Ian Groves[1], Gruffudd Jones[2], Yao Ge[2], Marco Martorella[2], Marina Gashinova[2], Victoria Nockles[1] [1]The Alan Turing Institute, [2]University of Birmingham, UK	**EuRAD26-2** Multi-Frequency K/Ka/W-Band Radar Calibration and Doppler Characterization of Rain Using Disdrometer–Radiometer Data Fusion Felix Yanovsky[1], Aleksander Pitertsev[1], Herman Russchenberg[2], Christine Unal[2] [1]National University Kyiv Aviation Institute, Kyiv, Ukraine, [2]Delft University of Technology	**EuRAD27-2** Fall Prediction from Micro-Doppler Signature of Human Gait: A Proof of Concept Fabrizio Lorenzo Carcione[1], Paolo Brasiliano[2], Elena Bergamini[2], Emanuele Cardillo[1] [1]University of Messina, Italy, [2]University of Bergamo	**EuRAD28-2** Unscented GM-PHD Filter for Tracking of Multiple Pedestrians with an FMCW Radar Mohcine Hamoumi[1], François Horlin[1], François Quitin[1], Jérôme Louveaux[2], Nihad Elhag[1] [1]ULB, [2]UCLouvain
11:50 – 12:10	**EuRAD25-3** Sub-THz ISAR Characterisation of Resident Space Objects During Proximity Operations Gruffudd Jones[1], Ian Groves[2], Yao Ge[1], Bangjie Zhang[1], Leah-Nani Alconcel[3], Marco Martorella[1], Victoria Nockles[2], Marina Gashinova[1] [1]EESE, University of Birmingham, [2]The Alan Turing Institute, [3]University of Birmingham	**EuRAD26-3** Multitaper Spectral Estimation Based on Burg Band Prediction Error Weighting for UHF Hydrological Radar Flow Velocity Measurement linxun Jiang[1], Qing Zhou[2], DePeng Wang[2], Chuanwei Ding[2], Heng Zhao[2], Hong Hong[2], Xiaohua Zhu[2] [1]Nanjing University of Science and Technology, [2]School of Electronic and Optical Engineering, Nanjing University of Science and Technology, China	**EuRAD27-3** A Minimum-Burden Framework for Weakly Supervised Through-Wall Radar Activity Labelling at Scale Matt Ash[1], James Brown[1] [1]Supersense Technologies Ltd	**EuRAD28-3** Airborne Bistatic Radar Detection with Long Integration Times Using Quadratic Time Delay Model and Keystone Transformation Olof Forssén[1], Tomas McKelvey[1], Mats Viberg[1], Patrik Dammert[2] [1]Chalmers University of Technology, [2]Saab AB and Chalmers University of Technology
12:10 – 12:30	**EuRAD25-4** Joint Range and Spin Rate Estimation of Tumbling Space Targets Using OFDM Radar Haofan Dong[1], Ozgur B. Akan[1] [1]University of Cambridge	**EuRAD26-4** Monitoring River Freeze-Thaw State using Polarimetric GNSS-R Ankit Regmi[1], Leo-Juhani Meriö[2], Pertti Ala-aho[3], Marko E. Leinonen[1] [1]Center for Wireless Communications, University of Oulu, [2]Finnish Environment Institute (SYKE) , [3]Water, Energy and Environmental Engineering, University of Oulu	**EuRAD27-4** Escalator-Aided Millimeter-Wave ISAR Imaging for Walk-Through Security Screening: Feasibility Study Isao Matsushima[1], Masato Gocho[1], Norihiro Togo[2], Tadashi Oshima[1] [1]Mitsubishi Electric Corp., [2]Mitsubishi Electric Engineering Company Limited	**EuRAD28-4** Detection of Targets with Unknown Coherence Time Tomas McKelvey[1], Ciaran Hoskins[2], Patrik Dammert[3] [1]Chalmers University of Technology, [2]University of Strathclyde, [3]Saab AB
12:30 – 12:50	**EuRAD25-5** Edge Computing Requirements for Spaceborne Sub-THz ISAR: A Real-Time Processing Analysis for SDA Yao Ge[1], Bangjie Zhang[1], Gruffudd Jones[1], Ian Groves[2], Victoria Nockles[2], Iain Styles[3], Marco Martorella[1], Marina Gashinova[1] [1]University of Birmingham, UK, [2]The Alan Turing Institute, [3]Queen's University Belfast	**EuRAD26-5** Experimental Validation of a 77 GHz FMCW Radar for Water Surface Velocity Measurement in a Controlled Open Channel Estelle Yvana EYENGA ABATE[1], Alain CRAVE[2], Stéphane Méric[1], María García-Vigueras[1], Gilles PICOULT[1] [1]IETR, INSA Rennes, [2]Univ Rennes, CNRS, Géosciences Rennes	**EuRAD27-5** A Time Domain Method for Estimating Wind Turbine RPM Using a Monostatic Pulse Doppler Radar George Mathai[1] [1]Lund University and Ericsson AB	**EuRAD28-5** Region-Based Dynamic Object Detection and Tracking in Cluttered Environments Anum Pirkani[1], Aleksandr Bystrov[2], Marina Gashinova[2] [1]The University of Birmingham, [2]University of Birmingham

FRIDAY 13:50 – 15:50

ROOM **Room 7 - 9**

EuRAD29
EuRAD Closing

13:50 – 14:00 Session Welcome

David Greig[1]

[1]Leonardo UK

14:00 – 14:45 ESA Activities on Advanced SAR Signal Processing Techniques and Applications for Security

Michela Corvino[1]

[1]European Space Agency

This keynote will present recent and ongoing ESA funded activities on advanced SAR signal processing techniques for security applications. With the increasing availability of high-resolution and agile spaceborne SAR data, advanced processing methods are opening new possibilities to extract information that goes far beyond conventional SAR imaging products. The keynote will provide an overview of key research areas including Inverse SAR (ISAR), micro-Doppler, VideoSAR, distributed SAR processing, SAR polarimetry, and data fusion with non-EO sources, together with emerging approaches for target motion estimation and feature extraction. Examples from ESA-funded projects will illustrate how these techniques can support applications such as maritime surveillance, moving target analysis, infrastructure monitoring, and broader situational awareness for safety and security, aiming to offer a concise view of current technological trends, recent achievements, and future directions in advanced SAR signal processing for operational security-related services.

14:45 – 15:30 Challenges Facing Modern RADAR Development

Phil Clarke[1]

[1]BAE Systems

This keynote will discuss some of the challenges facing modern RADAR development, in terms of evolving target types, operating environments and operational constraints. Meeting these challenges through architectural improvements and novel signal processing techniques offers hope, and opportunities for aspiring RADAR designers.

15:30 – 15:45 Awards Ceremony - EuRAD Best Paper Awards

David Greig[1]

[1]Leonardo UK

15:45 – 15:50 Closing Remarks & Invitation to EuRAD 2027

David Greig[1]

[1]Leonardo UK

Welcome from Workshop/Short Course Chair

We are delighted to welcome you to the Workshops and Short Courses Programme of the 29th European Microwave Week (EuMW2026), taking place in London, United Kingdom, from 4–9 October 2026.

The Workshops and Short Courses programme has been carefully designed to provide participants with in-depth technical insight into both established and emerging areas spanning microwave components and materials, advanced integrated circuit designs, radar and remote sensing, and next-generation 6G communications. This year's programme features 24 workshops and 8 short courses delivered by leading experts from academia and industry, covering a broad spectrum of topics, including:

- Microwave, mm-wave, and THz technologies
- 6G, AI-driven RF design, and integrated sensing
- Radar, remote sensing, and space applications
- Circuits, Devices and Semiconductor Technologies
- Antennas, Propagation and Measurement Techniques
- Photonics and Emerging Materials Technologies
- Sustainable RF Systems, Packaging, Power and Thermal Management

We extend our sincere appreciation to all organisers, presenters and contributors whose dedication and expertise have made this programme possible. Their continued efforts ensure the high technical quality and relevance that define the EuMW technical programme year after year.

The workshops and short courses are scheduled throughout the week in coordination with three EuMW conferences:

- EuMIC: Sunday – Monday
- EuMC: Sunday – Monday and Thursday
- EuRAD: Thursday – Friday

To enhance accessibility and flexibility for attendees, all presentation materials will be made available digitally during the conference. Please note that printed copies of the workshop and short course notes will not be provided. Registered participants will receive further information regarding access to the materials closer to the event.

We hope the programme will provide an engaging and rewarding experience for all attendees, and we look forward to welcoming you to London for an exciting and inspiring EuMW2026.

DR FATEMEH NOROUZIAN
Workshop & Short Course Chair
University of Birmingham, United Kingdom

SUNDAY 08:30 – 12:50

SS01
EuMC

Challenges and Payoffs in Next-Generation SATCOM: Multi-Band, Multi-Orbit, Multi-Constellation Ground Terminals

Chair: Ryan Jennings[1]
Co-Chair: Dean White[1]
[1]Qorvo

Room 6

The promise of next-generation SATCOM lies in seamless global connectivity powered by multi-orbit, multi-constellation networks across LEO, MEO, and GEO. With Ka-band adoption accelerating and Q/W-band expansion on the horizon, the ground segment urgently needs to evolve. Yet technical barriers–massive array density, extreme thermal load, and prohibitive cost curves–remain unsolved. This course explores the critical technical and architectural challenges of delivering affordable, power-efficient ground terminals capable of supporting multi-band operations, digital beam steering, and 6G-aligned traffic requirements. Panelists will explore both the pain points and the strategic payoffs of success, including high-throughput edge access, unlicensed Q/W-band opportunities, and advanced mobility for defence and commercial users. Topics covered: - Power/thermal tradeoffs in 6K–8K element Q-band phased arrays; - Hybrid analog/digital beamforming architectures; - System packaging and frequency co-design for LEO/MEO/GEO; - Integration strategies for multi-band RF front-ends; - Case studies on phased array pathfinding and cost optimization

PROGRAMME

Welcome and Course Introduction
Dean White[1]
[1]Qorvo

Deploying RF Subsystems for Next-Generation SATCOM Ground Terminal
Tudor Williams[1]
[1]Filtronic

Beyond a Single-Orbit, Unlocking the Value of Multi-Band, Multi-Constellation SATCOM User Terminals
Mark Steel[1]
[1]NexSAT

Network agnostic multi-orbit antennas; lessons learned from our first 1000 aircraft installations
Nick Zawistowski[1]
[1]BAE

SATCOM Terminal Solutions for Mobility and Mission Use
Maria Grana Varela[1]
[1]Insta

Building the RF Foundation for Advanced SATCOM Ground Terminals
Ryan Jennings[1]
[1]Qorvo

SUNDAY 08:30 – 18:30

Fundamentals of Microwave PA Design

SS02
EuMIC

Chair: Paolo Colantonio[1]
Co-Chair: Rocco Giofrè[1]
[1]University of Roma Tor Vergata

Room 7

Semiconductor Power Amplifiers are key components in radio frequency and microwave transmitter systems. They have received a great deal of attention and development effort over the last decades and are still a hot topic in research area. This short course aims to provide a comprehensive overview of all aspects of fundamental semiconductor microwave power amplifier design. It is an introductory course, aimed at graduate engineers who have moved into the field of RF design, as well as to microwave designers who aim to deeply understand the power amplifier basic concepts. This short course features a range of presentations and will provide a comprehensive overview and basic understanding on recent important progress and novel state-of-the-art achievements in semiconductor power amplifiers. Very recent advances in semiconductor amplifiers and their applications will also be covered. Starting from the fundamental concepts on semiconductor devices, the core of a power amplifier design, the theoretical foundations of a power amplifier design are discussed. It will include fundamental concepts and state-of-the-art results on actual designs of a range of semiconductor power amplifiers using existing foundries. The load pull technique is also addressed and focused on the designer perspective. The presentations will also cover a variety of advanced topics, and will provide the attendees with a clear overview of the main streams of current and important research trends worldwide in this field, as the Doherty architecture and the more recent load modulation power amplifier design concepts.The short course will also focus on the major challenges, such as stability (small and large signal) and how to address these in amplifier design. Finally, accounting for the linearity issue, a basic overview on linearization techniques and their adoption to properly mitigate the amplifier distortion effects will conclude the short course.

PROGRAMME

Semiconductor devices for PAs

Iltcho Angelov[1]
[1]Chalmers University (Sweden)

PA theoretical foundation

Paolo Colantonio[1]
[1]University of Roma Tor Vergata

Design and model-oriented Load Pull techniques: from basic CW to wideband and double pulsed Load Pull systems

Marco Pirola[1]
[1]Politecnico di Torino (Italy)

Design and model-oriented Load Pull techniques: from basic CW to wideband and double pulsed Load Pull systems

Gustavo Avolio[1]
[1]Maury Microwave, Eindhoven, The Netherlands

A practical guide to first-time-right integrated microwave PA design

Gijs van der Bent[1]
[1]TNO Radar Technology Department (The Netherlands)

X-parameters high-power PAs modeling for System Level Analysis

Alessandro Cidronali[1]
[1]University of Florence (Italy)

The Doherty Power Amplifier

Rocco Giofrè[1]
[1]University of Roma Tor Vergata (Italy)

Balanced PAs: an old trick revival

Roberto Quaglia[1]
[1]Cardiff Univeristy (UK)

Balanced PAs: an old trick revival

Aleksander Bogusz[1]
[1]Cardiff Univeristy (UK)

Linear and Nonlinear Stability Analysis of Power Amplifiers

Giorgio Leuzzi[1]
[1]University of L'Aquila (Italy)

Linearization techniques overview

Pere L. Gilabert[1]
[1]Universitat Politècnica de Catalunya (UPC-Barcelona Tech.), Spain

MONDAY 08:30 – 12:50

Modern SatCom Waveforms and Payload Performance: Linearity, PAPR, Spectrum Compliance , and Advanced Signal Analysis

SM01
EuMC

Chair: Aidin Taeb[1]
Co-Chair: Raj Sodhi[2]
[1]Keysight RF Solution Engineer, [2]Keysight product Manager

Room 2

Next-generation satellite communication systems are rapidly evolving toward flexible, high-throughput, and software-defined payloads that integrate advanced waveform processing with increasingly complex phased-array architectures. While DVB-S2/S2X remains the dominant broadcast and broadband standard, many operators and research groups are investigating custom OFDM-based or adaptive waveforms to support dynamic beam steering, multi-beam operations, and on-board digital channelization. These innovations introduce new engineering challenges, including high PAPR sensitivity, nonlinear distortion in power amplifiers, multi-carrier interference, and beam-dependent performance degradation in large phased-array systems. This half-day short course brings together experts from academia, industry, and test & measurement to explore the intersection of waveform design, payload hardware constraints, phased-array effects, and modern signal-analysis techniques. Topics may include DVB-S2/S2X PLFrame characterization, OFDM waveform adaptability, PA/DPD behavior under wideband high-PAPR conditions, array-level nonlinearity, beamforming impairments, and realistic end-to-end validation workflows for SatCom payloads. Measurement-focused sessions will demonstrate state-of-practice analysis methods–ranging from vector-domain DVB-S2/S2X demodulation and modulation-quality metrics to spectrum-domain nonlinearity and DPD-related evaluations using X-Apps. These techniques support both single-carrier and multi-beam payload scenarios, providing deep insight into time, frequency, modulation, and spatial domains.

PROGRAMME

Signal Quality and Spectrum Compliance in DVB-S2/S2X and Emerging SatCom Waveforms: Advanced Characterization Using the 89600 VSA

Raj Sodhi[1]
[1]Keysight product Manager

Power Amplifier Characterization with Digital Pre-Distortion: Wideband Linearity, PAPR Stress, and X-App Measurements

Aidin Taeb[1]
[1]Keysight RF Solution Engineer

Emulation-Driven Design and Testing of Power Amplifiers for Large Scale Beamforming Transmitters

Slim Boumaiza[1]
[1]Professor at University of Waterloo

The Application of Digital Predistortion in Enhancing Data Throughput for Space-Based Ku-Band Radio Systems in LEO

Aurora Nowicki[1]
[1]Hardware Test Engineering at Kepler Communications

MONDAY 14:10 – 18:30

Harnessing Phase Information to Improve RF Measurements

SM02
EuMC

Chair: Markus Lörner[1]
Co-Chair: Thorsten Lück[1]
[1]Rohde & Schwarz

Room 2

Precision is paramount in the microwave technology sector, where even small measurement inaccuracies can significantly affect device performance. This workshop, "Harnessing Phase Information to Improve RF Measurements" focuses on reliable characterization methods incorporating both amplitude and phase data – a critical need as RF devices become increasingly complex. Participants will learn to maximize the capabilities of modern test and measurement (T&M) instruments, including vector network analyzers (VNAs) and vector signal analyzers/generators (VSAs/VSGs), through a deep understanding of phase references and traceable calibration. This ensures confidence in measuring uncertainties and compliance with industry standards. The session features practical applications like time domain transformation and frequency-converting circuit measurements, addressing real-world challenges faced by the microwave community. By fostering collaboration and knowledge sharing, we aim to empower professionals to enhance measurement accuracy and drive innovation. Ultimately, this workshop is vital for advancing the understanding and application of phase information in microwave technology.

PROGRAMME

Why defined phases matter and how to achieve them

Markus Lörner[1]
[1]Rohde & Schwarz

Advanced measurement techniques with defined phases on multichannel signal analyzers

Florian Ramian[1]
[1]Rohde & Schwarz

Advanced measurement techniques with defined phases on VNAs

Thorsten Lück[1]
[1]Rohde & Schwarz

Characterizing electronic and optoelectronic pulse generators for traceable broadband phase referencing

Heiko Füser[1]
[1]Physikalisch-Technische Bundesanstalt (PTB)

Reliable Measurements of Modulated Signals: Establishing Traceability

Bryan Bosworth[1]
[1]NIST Communications Technology Laboratory

Frequency-Agile Phase settings for High-Performance Beamforming

Peter Moosbrugger[1]
[1]Qorvo

Behavioral Modeling via Time-Domain Signal Analysis

Mauro Marchetti[1]
[1]Maury

THURSDAY 14:10 – 18:30

Brief INCOMPLETE History of Radar

STh01
EuRAD

Chair: Eric Mokole[1]
[1]Retired, U.S. Naval Research Laboratory

Room 15

In this short course, a brief and incomplete history of radar from publicly accessible resources is presented. The discussion is divided into 5 time periods (1865-1930, 1930-1945, 1945-1992, 1992-2007, 2007-present), with the major emphasis on developments through WWII (1945). Only selected highlights will be presented from 1946 to the present. No individual or nation has had access to all historical information, because such knowledge was (and often still is) considered sensitive with regard to each country's national security and was withheld from publicly releasable venues. Historically, radar-enabling technological developments often occurred simultaneously and independently in different countries, unbeknownst to the other countries. The 1865-1930 segment discusses the theoretical and experimental foundations of radar (radar pre-history). The date 1865 corresponds Maxwell's publication, "A dynamical theory of the electromagnetic field." During the second period (1930-1945), serious developments of operational radars that were secretly initiated in many countries simultaneously and independently in anticipation of World War II (WWII) are discussed. The period (1945-1992) covers post WWII to the dissolution of the Soviet Union and witnessed the Cold War, the space race, and publication of theoretical concepts that put radar design on a better quantitative foundation. From 1945-1950, progress in radar technology slowed considerably and radar innovation plateaued, because efforts focused principally on WWII developments like monopulse-tracking, moving-target-indication, and phased-array radars. Military and civilian radar developments significantly increased, with widespread use in meteorology, air traffic control, aviation, planetary observation, etc. Major improvements were achieved through significantly better signal-processing software/hardware. Some new radar types were invented (SAR, ISAR, space, ultrawideband). The period 1992-2007 corresponds roughly to the advent of 2nd generation (2G) digital cellular technology; much of its technology base, hardware miniaturization, and increased computer memory/speed formed the foundation for waveform-diverse systems like digital array radar, software-defined radar, micro-Doppler, joint RF functionality, and multifunctional radar. The start of the period from 2007-present is arbitrarily chosen to reflect the beginning of the tremendous growth of bandwidth-intensive communication applications. Discussed topics include spectrum EMC, spectral harmony, RF convergence, distributed systems, and notions of software-defined and cognitive radars. Two final sections present closing observations and a set of references.

PROGRAMME

Brief INCOMPLETE History of Radar

Eric Mokole[1]
[1]Retired, U.S. Naval Research Laboratory

FRIDAY 08:30 – 12:50

Integrated Sensing and Communications: Fundamentals, State-of-the-Art and the Road Ahead

SF01
EuRAD

Chair: Maria-Sabrina Greco[1]
Co-Chair: Christos Masouros[2]
[1]U. Pisa, [2]UCL

Room 10

The emergence of applications such as smart cities, urban security, smart mobility, and infrastructure monitoring, demands next-generation networks with multi-functional capabilities beyond communication to address 6G KPIs like ultra-high data rates, precise localization, low latency, and energy efficiency, while aligning with the UN's Sustainable Development Goals. Spectrum congestion has been a major bottleneck in the network design, and for more than a decade, spectrum sharing, co-existence and dynamic spectrum licensing has been the prevalent paradigm. The proposed Short Course overviews the emerging wireless technology of Integrated Sensing and Communications (ISAC), that is shifting the paradigm from co-existence to co-design. The timeliness of this Short Course is underlined by the global push by academia, industry, and standards bodies to incorporate ISAC into 6G and beyond. Delegates will benefit from insights into ISAC's foundational principles, practical implementation strategies, and how it underpins emerging applications like intelligent transportation, WiFi sensing, and perceptive mobile networks. It offers a comprehensive view of how ISAC technologies can address spectrum congestion, improve sustainability, and create new opportunities in wireless network design, appealing to researchers, industry professionals, and early-stage scholars. The Short Course will cover the below content: • Motivation: emerging wireless applications demanding ISAC and the potential for a sustainable provision; • Basics on Radar; • Basics on Communications; • Signalling design: Sensing/Communication-Centric ISAC Designs; • Signalling design: Joint waveform design for ISAC, beamforming ISAC designs, pareto framework, and hardware efficient ISAC; • Network level ISAC design and optimization; • Distributed ISAC: Synchronisation issues and solutions; • Security challenges and opportunities for ISAC, and state of the art secure ISAC techniques; • Cognitive sensing techniques for ISAC; • MIMO Radar cognitive beamforming; • Experimentation and proof-of-concept results

PROGRAMME

Short course Part A

Christos Masouros[1]
[1]UCL

Short course Part B

Maria-Sabrina Greco[1]
[1]U. Pisa

FRIDAY 08:30 – 12:50

Digital Twins for Radar Systems: Modeling, Simulation, and AI Applications

SF02
EuRAD

Chair: Giorgia Zucchelli[1]
[1]MathWorks

Room 16

Digital twins are transforming radar system development by providing virtual representations that mirror real-world radar operations. In this short course, we introduce the concept of digital twins for radar applications, focusing on how these virtual models enable rapid design, analysis, and optimization of radar systems before building costly prototypes. Participants will learn how digital twins integrate antenna arrays, RF front-ends, and advanced signal processing algorithms–including AI and deep learning–into a unified simulation environment. We begin with the basics of modeling a radar's front-end and antenna array, showing how electromagnetic simulations inform system-level performance. Next, we explore scenario modeling, where digital twins simulate radar operation in realistic environments, accounting for terrain, atmospheric conditions, interference, and clutter. Through hands-on examples, we demonstrate how to use digital twins to evaluate radar coverage, beamforming, and beam-steering techniques, and how these models help predict system performance in complex, large-scale tracking scenarios. The course also introduces AI-assisted target classification, where digital twins generate synthetic radar data to train and evaluate machine learning and deep learning algorithms. We discuss the advantages of using digital twins for rapid prototyping, performance trade-off analysis, and cognitive radar development in crowded RF environments. Throughout, we use MATLAB to illustrate practical workflows, emphasizing how digital twins balance modeling fidelity, analysis speed, and optimization needs. By the end, attendees will understand how digital twins accelerate radar innovation, reduce development costs, and improve real-world system performance.

PROGRAMME

Introduction to Digital Twins for Radar Systems

Giorgia Zucchelli[1]
[1]MathWorks

Modeling Antenna Arrays and RF Front-Ends

Giorgia Zucchelli[1]
[1]MathWorks

Scenario Simulation: Environment, Clutter, and Propagation

Steven Thomsett[1]
[1]MathWorks

AI and Machine Learning for Radar Data Analysis

Steven Thomsett[1]
[1]MathWorks

FRIDAY 08:30 – 12:50

Beyond Vision: 4D Radar and Sensor Fusion AI for Robust Perception

SF03
EuRAD

Chair: Seung-Hyun Kong[1]
Co-Chair: Dong-Hee Paek[1]
[1]KAIST

Room 17

4D millimeter-wave (mmWave) imaging radar has rapidly emerged as a key sensing modality for autonomous systems, offering robust 3D spatial perception with radial velocity measurement under all weather and lighting conditions. Unlike cameras and LiDAR, 4D radar maintains reliable performance in rain, fog, snow, and dust, making it an indispensable component of next-generation perception systems. However, effectively leveraging 4D radar data for AI-based perception remains challenging due to its inherent sparsity, noise, and low angular resolution compared to other sensor modalities. This short course is an updated and significantly expanded version of our tutorials previously presented at IEEE IV 2024 (https://www.ieee-iv-4dradar.org/) and IEEE ICRA 2025 (https://sites.google.com/view/icra25-4dradar-tutorial), incorporating the latest research advances in 4D radar perception and multi-modal fusion AI. The course begins with an introduction to 4D radar fundamentals and data representations essential for AI-based approaches. It then covers 4D radar perception AI in depth, including backbone design, 3D object detection, occupancy prediction, and radar-based SLAM. The course further explores multi-modal sensor fusion, presenting advanced methods for integrating 4D radar with cameras and LiDAR through feature-level fusion, knowledge distillation, auto-labeling, and generative data augmentation. Finally, the course addresses emerging topics and future directions, including foundation models, adverse weather perception, edge deployment, and applications beyond automotive domains such as robotics, UAVs, and industrial environments. This course is designed for researchers and engineers across RF/microwave and AI communities seeking to bridge the gap between radar hardware expertise and modern deep learning-based perception. No prior deep learning experience is required.

PROGRAMME

Introduction to 4D Radar for AI-Based Perception

Seung-Hyun Kong[1]
[1]KAIST

4D Radar Perception AI

Dong-Hee Paek[1]
[1]KAIST

Multi-Modal Sensor Fusion AI

Dong-Hee Paek[1]
[1]KAIST

Emerging Topics & Future Directions

Seung-Hyun Kong[1]
[1]KAIST

SUNDAY 08:30 – 18:30

Additive Manufacturing of Microwave Components and Systems

WS01
EuMC

Chair: Tinus Stander[1]
Co-Chair: Cristiano Tomassoni[2]
[1]University of Pretoria, [2]University of Perugia

Room 1

Additive manufacturing has firmly established itself as a valuable tool for rapid prototyping and cost-effective low-volume production of RF, microwave and mm-wave devices and systems. While powder bed fusion techniques remain important in direct printing of metal components, metallization of 3D printed photopolymers and thermoplastics have created new opportunities with significant cost and weight advantages. This workshop brings together additive manufacturing experts from academia and industry to showcase new design and manufacturing techniques, as well as equipment and materials, for additively manufactured microwave components. The workshop also highlights application of these designs in a variety of industries. Key technologies included in this year's workshop are micro-stereolithography for sub-THz components, sustainable multi-layer printed electronics and polymer jetting, while design-for-print and wearable electronics design strategies will also feature prominently.

PROGRAMME

Metal 3D Printed Filters and Antenna Feeders
Yi Wang[1]
[1]University of Birmingham

Monolithic Metallic Additive Manufacturing for High-Frequency Microwave Components: From Design Methodology to Industrial Deployment
Pepe Rico[1]
[1]Northern Waves

Multimaterial Additively Manufactured RF Electronics
Yang Yang[1]
[1]University of Technology Sydney

RF components by Cyclic Olefin Thermoset vision-controlled jetting
Scott Twiddy[1]
[1]Inkbit

From Silver Mirrors to Microwave Components
Dominik Langer[1]
[1]Technische Universität Hamburg-Harburg

From Nanoparticles to Functional Inks: Additive Manufacturing of Microwave Components and Systems
Atif Shamim[1]
[1]KAUST

Passive microwave components made by micro-SLA resin printing and metallic coating and their space qualification
Andreas Frölich[1]
[1]Horizon Microtechnolgies

Additive manufacturing of sub-THz passive components using new generations of printers
Nicolas Delhote[1]
[1]XLIM

Recent advances in 3D printed dielectric-filled waveguides and waveguide components
Archibald Wishard Rohde[1]
[1]University of Pretoria

SUNDAY 08:30 – 18:30

Accurate Signals, Linear Amplifiers: Measurement Techniques from RF to Sub-THz

WS02
EuMC

Chair: Osamu Kusano[1]
Co-Chair: Jan Verspecht[1]
[1]Keysight Technologies

Room 17

As wireless systems advance toward higher frequencies and wider bandwidths for 5G-Advanced, 6G, and satellite communications, demands on signal generation accuracy and amplifier linearity continue to grow. Measurement techniques that work well at conventional RF bands often fall short at millimeter-wave and sub-THz frequencies, where mismatch effects, phase instability, and limited device power challenge established practices. This full-day workshop brings together measurement scientists from Keysight Technologies and researchers from academia and industry to address these challenges. Each presentation builds from fundamental principles before introducing advanced techniques, making the workshop accessible to engineers at all experience levels. The morning session covers three core measurement techniques. The first explains how impedance mismatch degrades signal accuracy and introduces match-corrected signal delivery using embedded reflectometry. The second revisits the fundamentals of modulation quality assessment and proposes Equalized Channel Capacity as a universal, information-theoretic alternative to traditional EVM. The third covers the principles of phase coherence and demonstrates multi-channel signal generation techniques for MIMO and angle-of-arrival applications. The afternoon session features three invited presentations on advanced applications: Wideband PA linearization using analog pre-distortion, sub-THz measurement methodologies above 100 GHz, and digital pre-distortion for J-band (220–330 GHz) power amplifiers targeting future 6G systems. Whether you are new to millimeter-wave measurements or an experienced RF engineer exploring sub-THz, this workshop offers practical knowledge of techniques that scale across frequency for next-generation wireless and sensing applications.

PROGRAMME

Match-Corrected Signal Delivery at the DUT Reference Plane

Randy Becker[1]
[1]Keysight

Equalized Channel Capacity – A Universal Approach to Quantifying Modulation Quality

Jan Verspecht[1]
[1]Keysight Technologies

Improving mmW Design Prediction Accuracy through the Use of Measured Broadband Permittivity and Conductivity

Yoshiyuki Yanagimoto[1]
[1]EMLabs, inc

Phase-Coherent Multi-Channel Signal Generation for MIMO and AoA Applications

Osamu Kusano[1]
[1]Keysight Technologies

Accurate Analog Pre-Distortion Achieving DPD-Like Performance

Tommaso Cappello[1]
[1]Villanova University

Linearity and Signal Purity Challenges in Sub-THz Measurements

Eric Bryeton[1]
[1]Virginia Diodes, Inc. (VDI)

Digital Pre-Distortion for J-Band Power Amplifiers

Ibrahim Abdo[1]
[1]NTT Corporation

SUNDAY 08:30 – 18:30

Advances in microwave to THz biomedical sensing and imaging: application to skin and breast cancer

WS03
EuMC

Chair: Daniel Segovia-Vargas[1]
Co-Chair: Elliott Brown[2], Zachary Taylor[3]
[1]UC3M, [2]WSU, [3]Aalto University.

Room 4

From microwave to THz, RF sensor technology has displayed the ability to detect a number of medical maladies, including breast cancer, corneal disease, skin burns and cancers; and it provides real-time, contactless monitoring of physiological vital signs. Malady detection usually depends on a contrast mechanism, such as differences in hydration between healthy and tumorous cells. However, these mechanisms are often difficult to describe in terms of standard electromagnetic quantities, like complex dielectric function and scattering parameters. The core problem is that hydration involves both "bound" and "free" water. While the dielectric function of "free" water is described well by the Debye models up to THz frequencies, "bound" water is hard to measure and factor into effective-media models. One objective of the Workshop is to address dielectric models of soft tissue that account for "bound" and "free" water. Another challenge in RF biomedical imaging is spatial resolution. Many of the maladies require positive detection of small tumors and other objects that are much smaller than the RF wavelength so cannot be resolved by traditional RF coupling, like antennas or quasi-optical components. To improve the resolution, various near-field-coupling techniques have been demonstrated, and THz radiation (sub-1-mm-wavelength) been employed to reduce the diffraction limits. However, increasing the RF frequency always increases the attenuation in soft tissue, so there is always trade-off between resolution, and depth-of-penetration, which needs to be quantified in RF biomedical sensors, and is one objective of the Workshop.

PROGRAMME

New equipment for microwave and mm wave biomedical characterization
Youzhi Li[1]
[1]Keysight Technologies

THz time-domain detection and imaging for medical applications
Don Arnone[1]
[1]Teraview

New advances in THz skin cancer detection
Emma MacPherson[1]
[1]University of Warwick

Camera characterization
Zachary Taylor[1]
[1]Aalto U.

Portable system for Microwave breast cancer detection (MABIS)
Daniel Segovia-Vargas[1]
[1]UC3M

Skin burn imaging
Elliott Brown[1]
[1]WSU

Contact-less devices for vital sign monitoring
Chris Van Hoof[1]
[1]Katholieke Universiteit Leuven

New approached to inverse scaterring problem
Lorenzo Crocco[1]
[1]CNR - IREA

Breast cancer imaging and phantoms development

SUNDAY 08:30 – 18:30

Antenna Technologies for Non-Terrestrial Networks and SATCOM Terminals

WS04
EuMC

Chair: Teun van den Biggelaar[1]
Co-Chair: Naila Rubab[2]
[1]Antennex, The Netherlands, [2]Antennex, The Netherlands Eindhoven University of Technology, The Netherlands

Room 8

The rapid expansion of next-generation satellite communication (SATCOM) systems is being propelled by Non-Terrestrial Networks (NTN), Low Earth Orbit (LEO), and Medium Earth Orbit (MEO) constellations, along with integrated space-air-ground architectures. These advanced SATCOM systems demand radio frequency payloads that can deliver high throughput, ultra-reliable links, low latency, and seamless beam mobility, challenging engineers to develop breakthroughs in antenna design, system integration, digital processing, and validation methods within strict SWaP-C constraints. This workshop offers a unique opportunity to explore the latest technological advancements shaping future SATCOM terminals. Sessions will cover system architecture and requirement flows for NTN user and gateway terminals, alongside cutting-edge electromagnetic modeling and co-design strategies that unify RF, thermal, and mechanical considerations. The impactful role of artificial intelligence and machine learning in antenna synthesis, calibration, fault detection, and adaptive beam control will also be highlighted. Additional focus will be on integrated antenna technologies such as active phased arrays, RFIC/beamformer integration, and scalable manufacturing and packaging solutions suitable for mass deployment. Dedicated discussions on digital and hybrid beamforming, Doppler effects in high-dynamic LEO scenarios, and advanced signal processing techniques will emphasize strategies to optimize link performance. The workshop will conclude with insights into emerging over-the-air measurement and validation techniques essential for certifying NTN terminals. By bridging design, production, and verification, this forum aims to catalyze innovation and encourage collaboration across the next-generation SATCOM antenna ecosystem.

PROGRAMME

Requirements and design of D2D constellations

Carolina Vigano[1]
[1]Viasat, Switzerland

Advances in Antenna Technologies for SATCOM

Alessandro Garufo[1]
[1]TNO, The Netherlands

AI/ML techniques for in-flight correction of Array Fed Reflector deformation

Martin Togstad[1]
[1]Large Space Structures GmbH, Heriot-Watt University

Advances in Ridge Waveguide Phased Array Antennas: Scan Limits and Design Solutions

Sören Harms[1]
[1]TU Eindhoven

Textile-based terrestrial user terminal antenna

Hoda Nematollahi[1]
[1]ESA

Multiple Beam Forming Phased Array Architectures for NTN User Terminals

Yanki Aslan[1]
[1]TU Delft

Emerging OTA measurement techniques for NTN terminals

Teun van den Biggelaar[1]
[1]Antennex, The Netherlands

SUNDAY 08:30 – 18:30

Current Trends in MMW and THz components

WS05
EuMC

Chair: Nicolas Delhote[1]
Co-Chair: Aurelian Crunteanu[1]
[1]XLIM Research Institute, CNRS/ University of Limoges, France

Room 9

This workshop provides an opportunity for presenters to share their work in multiple domains and application covered by the mm-wave and THz spectrum. A great part of this workshop will highlight extremely accurate manufacturing technologies able to comp with such high frequency, namely additive manufacturing, deep reactive ion etching (DRIE), ultra-precise deposition (UPD), structured glass technology, on laser-induced deep etching and micromachining. Based on these state of the art fabrication means, their potential is illustrated through extremely accurate interconnects and packaging, filters, couplers and power dividers. The application to antennas, MIMO front-end, metasurfaces for communications, beamsteering modules for 5G, 6G, radar and space applications as well as integrated sensing and communication will be highlighted thanks to renowned speakers. Thanks to this workshop, the attendees will have a snapshot of up to date activities in these field all gathered in a full day workshop.

PROGRAMME

Silicon-micromachined devices for mm and sub-mm wave communication and sensing

Joachim Oberhammer[1]
[1]KTH Royal Institute of Technology, Sweden

Additively Manufactured FHE-Enabled Wireless/5G+ Ultrabroadband Components and Modules for IoT, SmartAg, Industry 4.0 and AI-enabling ISAC/JCAS Applications

Manos M. Tentzeris[1]
[1]School of ECE, Georgia Tech, USA

Functional Materials for Millimeter-waves and THz Agile Devices

Aurelian Crunteanu[1]
[1]Xlim - UMR 7252 - CNRS- University of Limoges

Tentative: Structured glass technologies and 3D printing for mm-wave and THz components

Chad Bartlett[1]
[1]Department of Electronic Electrical and Systems Engineering School of Engineering University of Birmingham, UK

THz packaging: interconnects and antenna integration

Thomas Zwick[1], Elizabeth Bekker[1]
[1]Karlsruhe Institute of Technology (KIT), Germany

Multi-Diversities via Leaky and Standing Wave Radiations for Sensing and Communications

Steve Hang Wong[1]
[1]Department of Electrical Engineering, City University of Hong Kong

Monolithic Q/V/W feed chains for next generation feeder links

María García-Vigueras[1]
[1]IETR and INSA Rennes, France

SUNDAY 08:30 – 18:30

Advanced power sensing for frequencies above 140GHz

WS06
EuMC

Chair: Daniel Stokes[1]
Co-Chair: Murat Celep[1]
[1]National Physical Laboratory (NPL) [UK]

Room 10

With the increased use cases for high frequencies greater than 100 GHz, the need for metrological traceability has grown. This workshop focuses on one of the high frequency fundamental parameters, power. Specifically, the development of new sensors and sensing technologies needed to achieve primary level traceability and the systems used to disseminate this to end users. The workshop will cover topics such as:
- The design and fabrication of traceable power sensors.
- The fundamentals of testing and characterizing these new sensors.
- New measurement hardware developed by European National Measurement Institutes (NMI's) which allow for primary level SI traceability. -How this traceability is disseminated from NMI labs to end user artifacts.

Speakers will be from academic institutes, industry and several European NMI's.

PROGRAMME

140 - 220 GHz power sensor characterization at TUBITAK UME

Erkan Danaci[1]
[1]TUBITAK UME

Thermoelectric RF power transfer standards – calibration methods and comprehensive characterization

Marcel Thraenhardt[1]
[1]Rohde & Schwarz

Novel power measurement technologies: Challenges and commercial solutions above 140 GHz

Eric Breakenridge[1]
[1]Keysight Technologies (UK)

140 - 220 GHz power sensor characterization at NPL

Daniel Stokes[1]
[1]National Physical Laboratory (NPL) [UK]

Recent advances in microcalorimeter for use as microwave power standards at LNE

Doudou BA[1]
[1]LNE (France)

Design, Implementation, and Scalability of a 140 - 220 GHz metrology power sensor

Yi Wang[1]
[1]University of Birmingham

The dissemination of traceability for RF power up to 220 GHz at PTB

Karsten Kuhlmann[1]
[1]PTB

SUNDAY 08:30 – 18:30

Advances in cryogenic microwave design and measurement techniques of superconducting and spin qubits

WS07
EuMC

Chair: Felice Francesco Tafuri[1]
Co-Chair: Daryoush Shiri[2]
[1]Keysight Technologies, italy, [2]Keysight Technologies, Singapore

Room 11

This workshop addresses the cryogenic microwave engineering challenges of reading out superconducting and spin qubits with high fidelity and scalability. The morning session introduces key hardware solutions, including parametric amplifiers such as Josephson and traveling-wave designs, and advanced spectroscopic methods for spin-based qubits. These talks emphasize how amplification and noise performance impact system-level readout. The afternoon session focuses on design strategies of novel superconducting qubits, microwave resonator modelling, design challenges of large qubit chips, cryoCMOS chip design for spin qubits. We will also explore system-level noise modeling and integration approaches for high-density readout. The goal is to provide practical insights into device selection, circuit design, and system optimization for next-generation quantum computing platforms.

PROGRAMME

High-Fidelity single-shot Readout of Superconducting Qubits
Felice Francesco Tafuri[1]
[1]Keysight Technologies, italy

Hradware-accelaretd Quantum Indicators for metrology of Losephson Microwave Amplifiers
Emanuele Enrico[1]
[1]Istituto Nazionale di Ricerca Metrologica (INRiM), Italy

Accurate Cryogenic S-parameter measurements for reflectometry-based Qubit Readout
Manoj Stanley[1]
[1]National Physical Laboratory (NPL) [UK]

Wiring up molecular spins with Microwave Circuit QED technology
Fernando Luis[1]
[1]INMA-CSIC, Spain

Practical microwave resonator measurement and modeling for Qubit Readout
Martin Weides[1]
[1]James Watt, School of Engineering, University of Glasgow, UK

Physics and Design principles of Minimon and Exotic superconducting Qubits
Rainer Dumke[1]
[1]Centre for Quantum Technologies (CQT), Singapore

Testing RF ASICs for scalling spin Qubit systems
James Kirkman[1]
[1]Quantum Motion, UK

Overview of Design Tools and challenges for superconducting Qubits
Aneirin Baker[1]
[1]National Quantum Computing Center (NQCC), UK

Noise and System Level simulation for Superconducting Qubit Readout
Daryoush Shiri[1]
[1]Keysight Technologies, Singapore

SUNDAY 08:30 – 18:30

Advances in AI-Driven Microwave Design: From devices up to system-level

WS08
EuMC

Chair: Fábio Passos[1]
Co-Chair: Simona Donati Guerrieri[2]
[1]University of Lisbon, [2]Politecnico di torino

Room 12

The rapid integration of artificial intelligence (AI) and machine learning (ML) techniques into microwave engineering is transforming the way devices, circuits, and systems are conceived, optimized, and deployed. This workshop aims to provide a comprehensive overview of recent advances in AI-driven microwave design, spanning multiple abstraction levels–from antennas, passive and active devices, through circuits, up to subsystem/system level. At the device and component level, the workshop will address data-driven modeling, surrogate models, inverse design, and fast electromagnetic optimization for antennas and passive devices. Moving to the circuit and subsystem level, contributions will highlight AI-assisted synthesis and co-design methodologies from specifications to layout. At the system level, the workshop will explore AI-enabled design and optimization of systems, including hardware–algorithm co-design and digital twins. This workshop aims to bridge microwave theory, electromagnetic simulation, and modern AI techniques, offering attendees a unified perspective on how AI can accelerate innovation, reduce design cycles, and enable next-generation microwave and mm-wave systems.

PROGRAMME

Introduction to ML/AI for microwave applications
Qi-Jun Zhang[1]
[1]Carleton University

Accelerating RF design, analysis, and optimization with AI
Giorgia Zucchelli[1]
[1]Mathworks

AI-driven design of RF passives and integrated circuits
Bo Liu[1]
[1]University of Glasgow

AI Enabling Discovery and Design of Radio and High-Frequency Wireless Chips Beyond
Kaushik Sengupta[1]
[1]Princeton University

Towards Generative AI for Analog and RF IC Design: From Spec to Layout
David Pan[1]
[1]Univesity of Texas at Austin

Loadpull data into Circuit Simulator Using Artificial Neural Networks
Gustavo Avolio[1]
[1]Maury Microwave, Eindhoven, The Netherlands

Loadpull data into Circuit Simulator Using Artificial Neural Networks
Mauro Marchetti[1]
[1]Maury

Machine-Learning based Digital Predistortion Solutions for High-efficiency Power Amplifiers for Base Stations
Pere Gilabert[1]
[1]Universitat Politècnica de Catalunya

Digital twins and self-learning AI for RF and microwave
Dmitry Gnatyshak[1]
[1]Keysight

Digital twins and self-learning AI for RF and microwave
Majid Ahadi Dolatsara[1]
[1]Keysight

SUNDAY 08:30 – 18:30

Advanced IC Design for mm-Wave and Beyond

WS09
EuMC/
EuMIC

Chair: Alessandro Fonte[1]
Co-Chair: Luca Aluigi[2]
[1]SIAE Microelettronica, [2]Huawei Technologies

Room 13

Design and package of advanced integrated circuits operating at mm-Wave and sub-THz frequencies has become the central challenge in modern communication, radar, and satellite systems, as well as in emerging beyond-5G and early 6G scenarios. The continuous push toward higher data rates, wider bandwidths, and improved energy efficiency is driving IC designers to operate at increasingly higher frequencies, where conventional design assumptions often break down. This workshop focuses on critical aspects, key techniques, and practical insights for the design and integration of ICs at mm-Wave and sub-THz frequencies. Core topics include high-frequency device and circuit modeling, power-efficient transmitter and receiver architectures, thermal and reliability issues, advanced integration and packaging strategies, and the impact of emerging technologies, materials, and fabrication processes. Particular emphasis will be placed on satellite communications and high-capacity wireless links, where mm-Wave and sub-THz solutions are rapidly transitioning from research to real-world deployment. The technical program consists of invited talks covering device-, circuit-, and system-level perspectives, followed by a focused mini panel session addressing silicon versus III-V technologies, with an emphasis on performance limits, integration challenges, and system-level trade-offs. Participants will gain a realistic perspective on current limitations and future opportunities, and will leave with a clearer understanding of the challenges that must be addressed to enable robust, scalable, and high-performance and very high-frequency ICs.

PROGRAMME

Key MMIC Components for V-Band Inter-Satellite Links

Ernesto Limiti[1]
[1]Dept. of Electronics Engineering University of Rome Tor Vergata, Rome, Italy

Transistor stacking and load-modulation: from low to high frequency

Vittorio Camarchia[1]
[1]Department of Electronics and Telecommunications Politecnico di Torino Torino, Italy

Challenges in IC design for 6G: Fundamental SiGe BiCMOS Building Blocks

Guglielmo De Filippi[1]
[1]Fondazione Chips-IT, Pavia, Italy

Sculpting mm Wave Performance: Passive Innovation, local-backside-etching advantages, and Sub THz practical insights

Aniello Franzese[1]
[1]IHP – Leibniz-Institut für Innovative Mikroelektronik, Frankfurt (Oder), Germany

Design of a 39 GHz digital beamforming TRX in 22FD SOI

Jerome Prouvee[1]
[1]CEA LETI, Grenoble, France

Integrated Millimeter-Wave Avalanche Noise Sources for Cryogenic Applications

Federico Alimenti[1]
[1]Department of Engineering, University of Perugia Perugia, Italy

From mm-Wave Measurements to Nonlinear Transistor Models: Challenges and Practice

Valeria Vadalà[1]
[1]University of Milano-Bicocca, Milan, Italy

From Switched-Beam Architectures to mm-Wave IC Limits: Practical Insights for Highly Integrated SatCom Terminals

Emilio Arnieri[1]
[1]Millimeter-Wave Antennas and Integrated Circuit Laboratory (MAIC LAB) University of Calabria, Quattromiglia, Italy

System- and antenna-in-package design > 100 GHz: a practical approach with multiphysics simulation

Francesco Filice[1]
[1]IMEC, Leuven, Belgium

Multi-Antenna Transceivers Exploiting Spatial Processing

Dominique Morche[1]
[1]CEA LETI, Grenoble, France

MINI PANEL SESSION: Silicon vs. III-V Technologies: Implications for Millimeter-Wave IC Development

Alessandro Fonte[1]
[1]SIAE Microelettronica, R&D Dept., Italy

SUNDAY 08:30 – 18:30

Exploring the Innovative Technologies and Circuits Driving the Transition to 6G

WS10
EuMC/
EuMIC

Chair: Florinel Balteanu[1]
Co-Chair: Andrei Grebennikov[2]
[1]Skyworks Solutions Inc. USA, [2]Sumitomo, London, UK

Room 14

Research in 6G radio frequency (RF) technology is advancing rapidly in parallel with the widespread adoption of 5G. The integration of artificial intelligence (AI) is anticipated to necessitate higher data rates, thereby accelerating the development of 6G. Future 6G networks are expected to operate at higher frequencies, including 7–25 GHz for FR3 bands in mobile devices and up to 300 GHz for fixed wireless networks. These frequency ranges are critical for achieving enhanced data rates and improved connectivity. Progress in CMOS semiconductor technology, particularly at 2-nm feature sizes, is enabling advancements in smartphone applications. In conjunction with artificial intelligence, these developments are projected to further increase the demand for higher uplink data rates in 6G. This workshop will examine current 5G RF cellular designs, challenges associated with the transition to 6G, and anticipated advancements in circuit architecture, semiconductor, and packaging technologies that will enable this evolution, including AI-assisted design.

PROGRAMME

From analog/RF SoC to 6G chiplet heterogeneously integrating III-V & Si technologies: Challenges & Perspectives

Frédéric Gianesello, Pascal Chevalier[1]
[1]ST Microelectronics, Grenoble, France

PA/Transmitter Design and Architecture for 6G – Leveraging AI-assisted design

Han Zhou[1], Victor Åberg[1], Gregor Lasser[2], Christian Fager[2]
[1]Lund University, Lund, Sweeden, [2]Chalmers University, Sweeden

Advanced High-Efficiency GaN PA Module for FR3 massive MIMO Base-Stations

Shuichi Sakata[1], Kento Saiki[1]
[1]Mitsubishi Electric Corporation, Kanagawa, Japan

Trends and Challenges in Power Amplifier Linearization on the Path to 6G

Pere L. Gilabert[1]
[1]Universitat Politècnica de Catalunya, Barcelona, Spain

Time-Division Phased-Array Transceivers for 6G Massive MIMO

Kenichi Okada[1]
[1]Institute of Science, Tokyo, Japan

Radio Architectures and Technologies for FR3-6G Infrastructure

Rui Ma[1]
[1]pSemi Murata, Boston,MA, USA

6G FR3 Power Amplifier Design Considerations for Mobile Communications in B55X Technology

Nathalie Deltimple[1], Paul Rezette[2], Eric Kerhervé[3]
[1]INP/ENSEIRB-MATMECA Bordeaux, France, [2]INP/ENSEIRB-MATMECA, Bordeaux, France, [3]IMS Bordeaux

Transition to FR3-6G RF Front End Modules

Florinel Balteanu[1]
[1]Skyworks Solutions Inc. USA

MONDAY 08:30 – 18:30

On-Wafer Microwave Measurement Techniques for 6G and Beyond

WM01
EuMC

Chair: Abhijeet Kanitkar[1]
Co-Chair: Xiaobang Shang[2]
[1]Ferdinand-Braun-Institut gGmbH (FBH), [2]National Physical Laboratory (NPL)

Room 1

Accurate on-wafer measurements play an important role in the development of many established and emerging applications such as 6G communication, quantum computing, radar sensing. However, despite the significant progress made over the last decade in improving the accuracy of on-wafer measurements, several challenges remain to be overcome, particularly as frequency of operation increases. Through this interactive full-day workshop, international experts will share their experience and guide us through different aspects of on-wafer measurement techniques. The workshop addresses key aspects of advanced on-wafer measurement techniques, with a particular focus on precise material characterization for 6G and other emerging technologies. It covers recent advancements in automatic model-extraction methods for novel calibration techniques, innovative approaches for leakage correction using TRL standards, and the growing importance of AI-assisted automatic probing and RF signal detection. The speakers will discuss methodologies for transferring the accuracy of multiline TRL calibration from industrial BiCMOS technologies to commercially available substrates, as well as provide a CMOS IC designer's perspective on on-wafer measurements. Key challenges in on-wafer S-parameter, noise measurements, characterization of advanced transistor technologies, and field-mapping techniques for 6G communication systems will be examined. The workshop will also feature recent experimental results, including single-sweep wafer-level measurements up to 250 GHz, and multi-mode differential de-embedding and calibration results extending to 220 GHz. To summarize the workshop, we will initiate an open discussion to allow audience to interact with speakers. This will give everyone an opportunity to discuss the presented topics in detail and provide broad feedback on potential future topics.

PROGRAMME

Advancements in precise material characterisation up to 170 GHz towards 6G communications and other emerging technologies

Marzena Olszewska-Placha[1], Bartłomiej Salski[2]
[1]QWED, [2]Warsaw University of Technology

Transfer of mTRL Accuracy in industrial BiCMOS Technology to commercial Lumped-Element Calibrations up to 110 GHz

Gia Ngoc Phung[1], Uwe Arz[2], Samuel Nguyen Dinh An[3], Joao Carlos Azevedo Goncalves[3]
[1]Physikalisch Technische Bundesanstalt (PTB), [2]STMicroelectronics, [3]Institute of Electronics, Microelectronics and Nanotechnology (IEMN)

First Calibration and Measurement Results of a Novel Wafer-Level Single-Sweep 100 kHz-250 GHz System

Suren Singh[1], Andrej Rumiantsev[2]
[1]Keysight Technologies, [2]MPI Corporation

A new perspective on on-wafer measurement technique with TRL calibration standards

Chong Li[1]
[1]University of Glasgow

Automatic Model Extraction for the symmetric-reciprocal-match (SRM) VNA calibration

Michael Ernst Gadringer[1]
[1]Institute of Microwave and Photonic Engineering, Graz University of Technology

AI-Assisted Probe Alignment and Measurement for Next-Generation RF Devices

Kamel Haddadi[1]
[1]University of Lille

Recent progresses in on-wafer measurement with RF signal detection technique

Ryo Sakamaki[1]
[1]National Institute of Advanced Industrial Science and Technology (AIST) and Hiroshima University

De-embedding topics related to broadband, differential on-wafer measurements

Jon Martens[1]
[1]Anritsu Company

Multi-Mode Multi-Line Thru-Reflect-Line Calibration for On-Wafer Differential Measurements up to 220 GHz

Xinghao Tong[1], Lei Li[1], Antonio Morini[2], Marco Farina[2], James C. M. Hwang[1]
[1]Cornell University, [2]Marche Polytechnic University

Challenge of On-Wafer S-Parameters and Noise Measurements in an Industrial Environment for Advanced Silicon Devices

Joao Carlos Azevedo Goncalves[1], Samuel Nguyen Dinh An[2]

[1]STMicroelectronics, [2]Institute of Electronics, Microelectronics and Nanotechnology (IEMN)

A High-Precision 16-Term Calibration Approach for Bias-Dependent Characterization of Scaled InP HBTs

Ralf Doerner[1], Thomas Flisgen[2], Wolfgang Heinrich[3], Abhijeet Kanitkar[1]

[1]Ferdinand-Braun-Institut gGmbH (FBH), [2]Brandenburg University of Technology, [3]Ferdinand-Braun-Institut gGmbH (FBH), Leibniz Institut für Höchstfrequenztechnik

Field Mapping Techniques Using Electro-Optic Sensing for Electronics and 6G Communications

Young-Pyo Hong[1]

[1]Korea Research Institute of Standards and Scienece (KRISS)

A CMOS IC Designer's Look at On-Wafer Microwave Measurements

Shuhei Amakawa[1]

[1]Hiroshima University

SUNDAY 14:10 – 18:30

Emerging components for sub-terahertz 6G applications

WS11
EuMC

Chair: Fabrizio De Paolis[1]
Co-Chair: Withawat Withayachumnankul[2]
[1]European Space Agency, [2]The University of Adelaide

Room 6

The rapid push toward 6G is accelerating global interest in sub-THz (sub-terahertz) technologies, where frequencies between 100–300 GHz promise unprecedented data rates, ultra-low latency, and seamless integration of sensing and communication. Realising this vision requires a new generation of components and subsystems that deliver high performance, manufacturability, and reliability across both terrestrial and space-based platforms. This workshop brings together leading developments from industry, research institutions, and academia to provide a comprehensive overview of emerging sub-terahertz hardware technologies that will underpin future 6G systems. The program will highlight recent advances in semiconductor devices, photonic-electronic signal generation, high-frequency packaging, micromachined waveguides, and calibration methodologies that enable robust operation at sub-terahertz frequencies. Emphasis will be placed on compact, power-efficient front-ends; scalable fabrication approaches; and architectures that support joint communication-sensing, beam steering, and high-capacity backhaul. Contributions from space-focused initiatives will illustrate how sub-terahertz components are being adapted for high-altitude platforms, satellite payloads, and inter-satellite links, where constraints on mass, thermal management, and radiation tolerance drive unique design trade-offs. By convening industrial players alongside leading research laboratories and universities, the workshop aims to foster cross-sector dialogue on technology readiness, standardisation challenges, and pathways toward commercial deployment. Attendees will gain a clear understanding of the current state of the art, emerging trends, and the critical component-level innovations required to unlock the full potential of sub-terahertz 6G networks.

PROGRAMME

Preparing the future of 6G: D-Band technologies to meet the rising demand for higher data capacity

Tudor Williams[1]
[1]Filtronic

Enabling Sub-THz 6G Satellite Systems: V, W and D-Band Payload Technologies

Hui Wang[1]
[1]RAL Space

Advancing RF components and transceiver design from W-Band to D-Band

Mark Kelly[1]
[1]Celtonn

Photonic generation and detection of sub-THz waves

Withawat Withayachumnankul[1]
[1]University of Adelaide

Electronic metadevices for sub-terahertz 6G applications

Gabriele Gradoni[1]
[1]University of Surrey

Advanced photomixer concepts to enable photonics-assisted sub-THz MIMO wireless networks

Fabrizio De Paolis[1]
[1]European Space Agency

TBC

Theodore Reck[1]
[1]Virginia Diodes, Inc.

TBC

Tadao Nagatsuma[1]
[1]University of Tokyo

TBC

Jan Stake[1]
[1]Chalmers University of Technology

MONDAY 08:30 – 12:50

Open-source Toolchain in RF and Digital Design

WM02
EuMC

Chair: Sergei Andreev[1]
Co-Chair: Corrado Carta[1], Farabi Ibne Jamal[2]
[1]IHP GmbH, [2]IHP - Leibniz-Institut für innovative Mikroelektronik

Room 3

The European Chips Act serves as a strategic roadmap to secure technological sovereignty by aiming for a 20% global market share in semiconductors by 2030. The goal is to minimize the geopolitical supply chain risks and foster a self-sufficient ecosystem. Democratization of hardware development through the development of open-source EDA tools is a key pillar in these aspects. This would lower the entry barriers for SMEs and researchers, and ultimately accelerate a collaborative and transparent era of European silicon innovation. There are multiple EU funded projects have started from last few years. These projects are set to offer robust process design kits (PDK) for open-source tools. In parallel, existing open-source tools for IC design are being further enhanced to include necessary functionalities for complete design flow for digital, analog and RF design. Aligning with above mentioned goals, multiple private, academic, and commercial entities have stepped up towards the development. This workshop aims to share a glimpse of activities in open-source EDA tools developments and chip design activities in Europe. It would begin with a talk about current EU projects and the statuses in open-source EDA development. Then there will be two talks about digital and RF design flow using open-source tools. The final talk is about electro-magnetic simulation for RF circuits. Overall, this workshop is targets to publicize the open-source activities towards the building of a collaborative society in chip design domain.

PROGRAMME

Current activities in open-source IC Design

Sergei Andreev[1]
[1]IHP GmbH

RF design using open-source EDA tools

Harald Pretl[1]
[1]Johannes Kepler University, Linz, Austria

End-to-end open-source Digital IC Design

Frank Gürkaynak[1]
[1]ETH, Zürich, Switzerland

EM simulation for IC design using open-source EDA tools

Giovanni Di Pietrantonio[1]
[1]IHP GmbH, Frankfurt (Oder), Germany

MONDAY 08:30 – 18:30

Photonic Technologies and Systems for RF Applications

WM03
EuMC

Chair: Andreas Stöhr[1]
Co-Chair: Guillaume Ducournau[2]
[1]University Duisburg-Essen, [2]Univ of Lille

Room 6

Today, most devices and technologies rely on electronics to process, transmit, and analyze information. This workshop will address photonic RF technologies aiming to transform these electronic connections into photonic ones, increasing transmission speeds and improving responsiveness while consuming substantially lower levels of power. The key advantage of photonic RF technology is the potential to provide a continuous and interference-free coverage of multi-octave frequency bands up to the THz regime with only a single technological solution paving the way for a plethora of future applications, measurement technologies and metrology. Potential applications include high-capacity fixed wireless access, mobile mm-wave/THz communications, satellite communications, earth observation and techniques for ultrawideband signal processing. Generic functions include multi-octave bandwidth high output power RF sources and receivers, optically pumped mm-wave/THz receiver, phase-stable transport of RF signals over optical fiber, optical beamforming technology. The workshop will provide an insight into the state-of-the-art of photonic RF technologies, and it aims to discuss whether maturity, performance and cost of photonic RF technology is ready to compete with existing solutions.

PROGRAMME

Photonic Terahertz Vector Network Analyzer for High-Frequency Test and Measurement Applications
Taro Eichler[1]
[1]Rohde & Schwarz

Photonics for test & mesurement applications
Radu Lupoaie[1]
[1]Keysight

RF Photonics for Space
Alexander Hees[1]
[1]AIRBUS

Low-phase noise THz generation
Marcel Grzeslo[1]
[1]MWP

Photonics for THz VNA
Robert Kohlhass[1]
[1]HHI

Photonic Terahertz Systems and their Use as High Frequency Measurement Equipment.
Nico Vieweg[1]
[1]TOPTICA

RF photonics for real-time material analysis
Israa Mohammad[1]
[1]UDE

THz photonics for system-level testing
Guillaume Ducournau[1]
[1]Univ of Lille

Optical pumped heterodyne mixers
Oleg Cojocari[1]
[1]ACST

Plasmonics & photonics for Terahertz
Jürg Leuthold[1]
[1]ETH Zürich

Laser Sources Architectures for Classical and Quantum RF and Optical Sensing”
Morvan Loic[1]
[1]THALES

THz mixers
Peter Huggard[1]
[1]Rutherford Appleton Labs

MONDAY 14:10 – 18:30

Old Dog New Tricks: Analog Linearization of RF/ Microwave Power Amplifiers for Efficient and Wideband Transmitters

WM04
EuMC

Chair: Tommaso Cappello[1]
Co-Chair: Kevin Morris[2]
[1]Villanova University, [2]University of Leeds

Room 13

The unprecedented growth of wireless devices has resulted in increasingly congested spectrum and power consumption issues. Power amplifiers (PAs) are designed to be linearized with digital pre-distortion (DPD) but this results in expensive hardware and power consumption issues. Analog predistortion (APD) can be used to reduce hardware costs and power consumption. This workshop presents several state-of-art analog linearizers ranging from sub-7GHz to mm-waves. Examples of these techniques are presented for a Doherty PA with 1.8GHz bandwidth: the APD circuit is specifically designed to correct the gain inflection with a triple-branch series-diode circuit. An alternative approach is to use diodes as a nonlinear impedance in reflective linearizers: this approach is demonstrated with a class-AB PA between 1.4 and 2 GHz achieving 7-13 dB spectral regrowth reductions. The nonlinearity used for pre-distortion can be generated using a nonlinearity generator with vector modulator: this approach is demonstrated for a 3.5GHz PA demonstrating spectral regrowth reductions up to 23.7 dB. An alternative approach to RF pre-distortion is to modulate the gate bias of the RF PA to improve linearity using custom-built integrated modulator amplifiers. Similarly, a "generic analog linearizer" is demonstrated with an E-band PA with a 250-MHz 16-QAM waveform with substantial improvements in the spectral regrowth. Finally, the results of an APD circuit specifically designed to correct for the gain ``hump" in high-efficiency Class-AB Pas is presented, showing full compliance with 5G requirements while consuming only few milliwatts of power.

PROGRAMME

Analog Linearization of Doherty Power Amplifiers for Combined Efficiency and Linearity with High Peak-to-Average Power Modulated Signals

Alex Pitt[1]
[1]Compound Semiconductor Applications (CSA) Catapult, UK

Design of Wide Bandwidth Reflective Analog Predistorters (RAPD)

Jiayang Yu[1]
[1]University of Aveiro, Portugal

Analog Predistorter Design Considerations for 5G/ 6G Communication

Meenakshi Rawat[1]
[1]Indian Institute of Technology, Roorkee

A Controllable Analog Linearizer MMIC at E-band

Marcus Gavell[1]
[1]Gotmic AB, Sweden

Analog Linearity Enhancement for Overall Efficiency Improvement of Wideband Transmitters

Gregor Lasser[1]
[1]Chalmers University of Technology, Sweden

Analog Predistortion Linearizer for Class-AB Power Amplifiers

Tommaso Cappello[1]
[1]Villanova University

MONDAY 08:30 – 12:50

Embedding Sustainability into Electronics: A Workshop for Circuit Designers on Quantification, Implementation, and Future Technologies

WM05
EuMC/
EuMIC

Chair: Helmuth Morath[1]
[1]TU Dresden

Room 13

How can electrical engineers assess and improve the sustainability of electronics? This half-day workshop addresses this question by combining assessment methodologies, circuit-level design strategies, manufacturing considerations, and forward-looking material technologies. The workshop opens with Life Cycle Assessment (LCA) for Engineers, introducing the core methodology and terminology. The presentation shows how environmental impacts can be quantified across the full life cycle of electronic systems and how LCA results can support informed engineering decisions. It also highlights how raw material extraction and supply chains influence environmental performance and design risk. The second presentation focuses on Responsible Integrated Circuit Design, discussing how circuit architectures and low-power techniques can reduce both energy consumption and material usage. The talk highlights trade-offs and limitations of different approaches and includes an overview of energy harvesting sources, techniques, and challenges as a pathway toward batteryless and energy-autonomous systems. The third contribution addresses Materials and Manufacturing, outlining recent developments in electronics and photonics packaging and heterogeneous integration aimed at lowering environmental impact. Emphasis is placed on green manufacturing approaches such as additive manufacturing, low-temperature integration and contacting technologies, and the use of recycled or sustainable materials for substrates and contacts. The workshop concludes that sustainability must be considered early-on in Future Technologies: heterogeneous integration of semiconducting nanowires and two-dimensional materials, leads to enhanced properties of field-effect transistors and sensors. This can be performed in SOI processes, compatible to CMOS, as well as on novel substrates. The sustainability of these approaches will be investigated considering the full process.

PROGRAMME

How Sustainable Is Your Design? An Engineer's Introduction to Life Cycle Assessment

Azin Zarei[1]
[1]United Nations University

Design Trade-Offs for Sustainable Integrated Circuits: From Low-Power Techniques to Energy Harvesting

Helmuth Morath[1]
[1]TU Dresden

Sustainable electronics packaging and heterogeneous integration

Krzysztof Nieweglowski[1]
[1]TU Dresden

Designing Future Technologies with Sustainability in Mind: Nanowire and 2D Material Integration

Artur Erbe[1]
[1]Helmholtz-Zentrum Dresden-Rossendorf e.V.

MONDAY 08:30 – 18:30

Enabling Ultra-Low Noise RF Systems: Technology, Materials and Metrology

WM06
EuMC/
EuMIC

Chair: Nizar Messaoudi[1]
Co-Chair: Chong Li[2]
[1]Keysight Technologies, [2]University of Glasgow

Room 15

The availability of high-volume, ultra–low-noise transistor technologies at cellular, Wi-Fi, and SATCOM frequencies poses a fundamental challenge to existing noise metrology practices. While traditional low-noise semiconductor technologies such as GaAs and InP have long dominated microwave and millimeter-wave applications due to their superior noise performance at higher frequencies, increasing system complexity and cost pressures are driving a transition toward heterogeneous integration of these materials with advanced silicon-based platforms across a broader frequency range. At these exceptionally low noise levels, state-of-the-art device noise measurement systems lack the resolution and repeatability required to reliably distinguish the performance of competing device technologies, limiting actionable insight for system architects and technology developers. Recent worldwide investments in advanced semiconductor manufacturing, including RF, microwave, and millimeter-wave applications, further underscore both the urgency and the opportunity for enhanced public–private collaboration in this area. In parallel, there is growing interest in exploring emerging semiconductor materials such as GaN and GaAs to address complementary requirements in power handling, bandwidth, and ultra-low-noise operation across extended frequency regimes. This workshop begins by motivating the need for extremely low minimum noise figure technologies, driven by applications such as LEO satellite communications, remote sensing, and emerging quantum computing systems. It then presents technology developers' experiences and limitations encountered with current noise metrology practices, and concludes with a forward-looking discussion involving commercial instrumentation vendors and national metrology institutes on potential paths toward next-generation noise measurement methodologies.

PROGRAMME

Introduction to the recent progress on microwave and mm-wave low noise technologies
Chong Li[1]
[1]University of Glasgow

InGaAs Metamorpic HEMT Technologies for Cutting-Edge Low-Noise, High-Frequencies, and Ultra-Wideband Applications
Fabian Thome[1]
[1]Fraunhofer IAF

trapping in GaN LNAs
Matthias Rudolph[1]
[1]Brandenburg University of Technology Cottbus-Senftenberg

Low-noise GaN-on-Si HEMTs for mm-Wave Integrated T/R Modules
Ng Geok Ing[1]
[1]Nanyang Technical University Singapore

Highly efficient 2D material based transceivers for space communications (tentative)
Peng Zhou[1]
[1]Fudan University

Cryogenic InGaAs transistor for low-noise amplifier and routing circuits
Sanghyeon Kim[1]
[1]KAIST

Challenges of On-Wafer Noise Parameter Measurements in an Industrial Environment for Advanced Silicon Technologies
Joao Carlos Azevedo Goncalves[1]
[1]ST Micro

Practical Noise Figure Measurements: Methods, Limitations and Uncertainties
Nizar Messaoudi[1]
[1]Keysight Technologies

Advancements Noise Parameters Characterization: from Room-Temperature to cryogenic applications
Mauro Marchetti[1]
[1]Maury

Pushing the Limits of Wafer-Based Noise Characterization: Measurement Error at mm-Wave and Sub-THz
Bryan Hosein[1]
[1]Focus Micorwaves

Pulse-operated HEMT LNA using time-domain noise measurements
Jan Grahn[1]
[1]Chalmers

MONDAY 08:30 – 18:30

Is RF GaN-on-Si ready for prime time?

WM07
EuMC/
EuMIC

Chair: Nadine Collaert[1]
Co-Chair: Bertrand Parvais[1]
[1]imec

Room 16

Over the last years, GaN has rapidly become a cornerstone technology for high-performance RF power applications, driven by its high breakdown voltage, power density, and efficiency. While GaN-on-SiC remains the benchmark for premium RF performance, GaN-on-Si has emerged as a compelling alternative due to its potential for lower cost, larger wafer sizes, and compatibility with CMOS-centric manufacturing ecosystems. As 5G/6G, satellite communications, and radar systems continue to push for higher frequencies, wider bandwidths, and improved power efficiency, the question arises: Is RF GaN-on-Si mature enough to meet these evolving system demands? This workshop will explore the state of the art in GaN-on-Si RF technology, addressing materials advances, defect and thermal management, device architectures, circuit demonstrators, and reliability assessment. Recent progress in substrates, buffer engineering, and thermal mitigation approaches will be reviewed, alongside application-driven requirements for FR1, FR3, and mm-Wave/sub-THz systems.
The goal of this workshop is to bring together experts from industry, academia, and research institutes to discuss the remaining challenges and opportunities that will determine whether RF GaN-on-Si can transition from a promising contender to a widespread mainstream technology. Participants will gain insight into the readiness level of GaN-on-Si and the innovation pathways that could accelerate its adoption.

PROGRAMME

The Evolving Landscape of RF GaN-Si Technology
Nadine Collaert[1]
[1]imec

Market opportunities and competitive Positioning for GaN-on-Si in the RF industry
Hassan Saleh[1]
[1]Yole

RF GaN substrates
Marianne Germain[1]
[1]SOITEC

RF GaN-on-Si Beyond the Device: Where System Reality Sets the Limits
Kauser A. Chaudhry[1]
[1]CSA Catapult

GaN reliability challenges
Enrico Zanoni[1]
[1]University of Padova

GaN Technology for Telecom Infrastructures – the challenges and opportunities
Rui Hou[1]
[1]Ericsson

Substrate and Buffer Engineering in RF GaN-on-Si: Implications for RF Losses, Linearity, Efficiency, and Reliability
Farid Medjdoub[1]
[1]IEMN

Title to be provided
Thomas Roedle[1]
[1]Infineon

MONDAY 14:10 – 18:30

Reproducible RF & Radar Research with Open-Source Software, Testbeds, and Datasets

WM08
EuMC/
EuMIC/
EuRAD

Chair: Chang Gao[1]
[1]Delft University of Technology (TU Delft), The Netherlands

Room 3

This workshop brings together open-source toolchains that make RF and radar research easier to reproduce, compare, and extend. The program spans the full "lab-to-paper-to-reuse" loop across communications and sensing. This workshop will cover: (1) open RFIC design automation via transfer-learning-based passive design migration and scalable, PDK-driven flows; (2) open datasets and end-to-end deep-learning frameworks for wideband PA modeling and neural digital predistortion (DPD) with measurement-validated baselines and pathways toward real-time deployment; (3) reproducible RF measurement and network-analysis workflows using scikit-rf, including practical guidance on software architecture, testing, and community-driven maintenance; and (4) how to build open radar datasets and benchmarks that are actually useful across labs, including what to capture, how to label, and how to define evaluation protocols that avoid common pitfalls, e.g., domain shift, leakage, sensor mismatch. The goal is to give attendees a practical map of what is available today, what is still missing, and how to contribute back to connect the EuMC, EuMIC, and EuRAD communities around shared open-source practices and reusable research assets.

PROGRAMME

RFIC-TL: Open-Source Transfer Learning for RFIC EM Passive Design Migration

Chenhao Chu[1]
[1]ETH Zurich, Switzerland

OpenDPD: Open-Source Wideband PA Modeling and Neural DPD

Yizhuo Wu[1]
[1]TU Delft, The Netherlands

Lessons Learnt for Open Radar Datasets & Benchmarks for Micro-Doppler & Automotive Sensing

Francesco Fioranelli[1]
[1]TU Delft

Sionna: An Open-Source Library for AI-Native 6G Research

Sebastian Cammerer[1]
[1]NVIDIA

THURSDAY 08:30 – 18:30

Active Phase Arrays: Bridging Design and Measurement for Young and Industry Professionals

WTh01
EuMC/
EuMIC/
EuRAD

Chair: Marc Dirix[1]
Co-Chair: Kamil Yavuz Kapusuz[2]
[1]Emerson&Cuming Anechoic Chambers, Belgium, [2]IMEC-Ghent University, Belgium

Room 16

Active phased arrays are a cornerstone technology for emerging communication, and sensing systems operating from mm-wave to sub-THz frequencies. However, the increasing complexity of these systems has widened the gap between design, simulation, realization, and measurement. This workshop aims to bridge that gap by bringing together leading experts from academia, research institutes, and industry to present a coherent, end-to-end perspective on modern active phased array development. The program spans the full lifecycle of phased arrays, from chip-level and interposer design to scalable array architectures, radar modules, and full-duplex integrated sensing and communication systems. Key design challenges such as low-loss D-band realization, reconfigurability, MIMO operation, direct RF sampling architectures, and thermal management are addressed alongside advanced multi-physics simulation. Equally emphasized are measurement-oriented topics, including near-field power handling estimation, industrial robotics–based antenna measurements, and techniques to mitigate measurement artifacts at mm-wave and sub-THz frequencies. By tightly coupling design methodologies with practical measurement and validation strategies, the workshop highlights how theoretical performance can be reliably translated into real-world hardware. Targeted at young professionals, researchers, and practicing engineers, this workshop provides both foundational insights and industrially relevant perspectives, equipping attendees with a holistic understanding of how to design, analyze, and measure next-generation active phased array systems with confidence.

PROGRAMME

From chip to system: A holistic approach to 2D scalable low-loss D-band active phased array realization

Kamil Yavuz Kapusuz[1]
[1]IMEC-Ghent University, Belgium

Design, simulation and realization of phased array

Simona Bruni[1]
[1]IMST, Germany

Advanced radar module development: Innovations and efficiency enhancements for flexible phased array and MIMO operation

Dirk Nüßler[1], Christian Krebs[1]
[1]Fraunhofer, Germany

Element-Level Direct RF Sampling and Synthesis for Next-Generation Antenna Arrays: System Benefits, Practical Limitations and Design Tradeoffs

Doganay Dogan[1]
[1]Aselsan, Turkiye

Reconfigurable active phased array for full duplex integrated sensing and communication.

Eric Klumperink[1]
[1]University Twente, Netherlands

RF interposer design for mm-Wave/Sub-THz phased arrays: A multi-physical CAE approach

Francesco Filice[1]
[1]IMEC, Leuven, Belgium

Fast and Accurate thermal analysis of active phased arrays

Amazir Moknache[1]
[1]Ansys, France

Estimation of power handling in near-field measurement setups for phased array antennas

Marc Dirix[1]
[1]Emerson&Cuming Anechoic Chambers, Belgium

Industrial robotics in the measurement of active array antennas

Stuart Gregson[1]
[1]Next Phase Measurements,Queen Mary University of London, UK

FRIDAY 08:30 – 18:30

Radar Research Trends for Mobility: Automotive and Beyond

WF01
EuRAD

Chair: David Werbunat[1]
Co-Chair: Fabian Roos[2]
[1]Ulm University, [2]Robert Bosch GmbH

Room 2

Automotive radar is currently driving innovation across multiple research domains, ranging from radar networks and radar imaging to AI-based scene understanding. This workshop provides a comprehensive overview of recent advances and emerging research directions in automotive radar and related application fields. One of the central themes of the workshop are radar networks, which are expected to significantly extend the sensing and imaging capabilities of automotive radar systems. The first part of the workshop, therefore, focuses on system design and synchronization concepts for radar networks. Establishing coherency enables bi- and multistatic signal processing, opening the door to novel imaging concepts, expected to enhance resolution and robustness. Beyond theoretical concepts, the workshop will also address practical challenges related to integrating radar networks into vehicles, including hardware impairments and integration constraints. These new advances in radar system design and signal processing are closely linked to progress in higher-layer algorithms. Modern radar imaging approaches such as automotive SAR improve the capturing of the environment, while AI-based methods such as semantic segmentation enable scene interpretation and target classification. By covering these aspects, the workshop aims to provide a comprehensive overview of the future capabilities of automotive radar systems. Importantly, these developments extend beyond the automotive domain. Emerging applications in areas such as robotics increasingly leverage automotive-grade radar sensors as key components for physical AI. The workshop therefore highlights not only advances within automotive radar but also their impact on next-generation radar-enabled sensing platforms

PROGRAMME

Synchronization and imaging concepts for automotive radar networks

Julian Aguilar[1], Max Basler[1], Vinzenz Janoudi[1], Christian Waldschmidt[1], David Werbunat[2]
[1]Ulm University, Ulm, Germany, [2]Ulm University

Bringing Automotive Radar Networks on the road

Mayeul Jeannin[1], Francesco Laghezza[1]
[1]Infineon Technologies AG, Neubiberg, Germany

Integrating Cooperative Radar Networks in Real-World: Challenges and Solutions for Optimal Performance

Daniel Schindler[1], Cornelius Kaiser[1], Tobias Schmid[1]
[1]Robert Bosch GmbH, Renningen, Germany

Future Radar System Architectures for ADAS and AD

Maximilian Steiner[1]
[1]Mercedes-Benz AG, Sindelfingen, Germany

Automotive SAR: Concepts and Applications

Marc Reinecke[1], Theresa Noegel[1], Oliver Sura[1], Martin Vossiek[1]
[1]Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany

Redefining automotive radar archetype - from detection to dynamic scene perception.

Anum Pirkani[1], Yang Xiao[1], Ali Bekar[1], Marina Gashinova[1]
[1]University of Birmingham, Birmingham, United Kingdom

AI techniques in automotive radar: inspiration for object detection, segmentation, and ego-motion estimation

Mujtaba Hassan[1], Ignacio Roldan[1], Alexander Yarovoy[1], Sen Yuan[1], Simin Zhu[1], Francesco Fioranelli[2]
[1]TU Delft, Delft, The Netherlands, [2]TU Delft

Future Applications of Automotive-Grade 4D Imaging Radar: Robotics, Human Sensing, and PhysicalAI

Jürgen Hasch[1]
[1]Waveye, Palo Alto, California, United States

FRIDAY 08:30 – 18:30

Distributed/Multistatic radar principles and practice

WF02
EuRAD

Chair: Michail Antoniou[1]
Co-Chair: Matthew Ritchie[2]
[1]University of Birmingham, [2]University College London

Room 3

This workshop will provide an overview of multistatic and distributed radar systems, from first principles to advanced system and signal processing concepts and practical demonstrations. Its end goal is to advance from fundamentals to an overview of the state of the art in the field, thus offering insights into both theoretical and practical aspects of such systems. The workshop will begin by introducing the essential operating principles of multistatic radar systems and how they can manifest in practice, highlighting their relative advantages over stand-alone, monostatic sensors, but also some of the requirements towards their implementation. Of those, specific emphasis will be placed on the issue of time/phase synchronisation to establish coherence across radar nodes, both in terms of the requirements and challenges it presents but also in terms of methods to achieve it and evaluate its effectiveness. The focus of the workshop will then shift from an introduction to fundamentals to an overview of selected advanced concepts and systems with practical implementations and experimental results. Those will include an overview of passive radar systems, utilising transmitters of opportunity to provide situational awareness; passive multistatic Synthetic Aperture Radar (SAR) and Ground Moving Target Indication (GMTI) techniques; and distributed radar 2-D and 3-D target imaging. The discussions will feature real-world case studies, including a live demonstration from the University of Birmingham's ADvanced Radar Network (ADRAN), to provide a deeper understanding of the benefits and challenges these technologies introduce and future directions to address them.

PROGRAMME

Multistatic Sensing – Introduction to Benefits and Challenges
Matthew Ritchie[1], Piers Beasley[2]
[1]University College London, [2]BAE Systems

Signal synchronisation in multistatic radar systems
Mohammed Jahangir[1]
[1]University of Birmingham

Distributed passive radar systems
Krzysztof Kulpa[1]
[1]Warsaw University of Technology

Multistatic passive SAR systems
Michail Antoniou[1]
[1]University of Birmingham

Multi-bistatic Interferometric ISAR
Elisa Giusti[1], Selenia Ghio[1]
[1]CNIT

Distributed ISAR imaging
Fabrizio Santi[1], Debora Pastina[1]
[1]University of Rome

Multistatic GMTI
Philipp Markiton[1]
[1]Fraunhofer FHR

FRIDAY 08:30 – 12:50

Remote Sensing for Medical Applications

WF03
EuRAD

Chair: Igal Bilik[1]
Co-Chair: Julien Le Kernec[2]
[1]Ben Gurion University of the Negev, [2]University of Glasgow

Room 15

This workshop focuses on the intersection of advanced radar signal processing and clinical health management, specifically highlighting the transition from raw electromagnetic data to actionable medical insights. As healthcare trends toward decentralized, continuous monitoring, the challenge lies not only in sensor hardware but also in developing robust algorithms capable of extracting subtle physiological indicators in realistic, "uncontrolled" environments. Some topics include the use of mmWave and Ultra-Wideband (UWB) systems for high-precision vital sign monitoring, such as heart rate variability and respiratory patterns, without the need for skin-contact sensors. We will examine the role of micro-Doppler signatures in human activity recognition for elderly care and fall detection, as well as the emergence of microwave imaging for internal diagnostics. Beyond hardware, we will discuss state-of-the-art algorithmic frameworks for non-contact vital sign estimation, including advanced denoising and motion-compensation techniques, such as extended noise-immune motion sensing, used to isolate micro-displacements from the chest and carotid pulse. A portion of the session will be dedicated to human activity recognition (HAR), examining how micro-Doppler signatures and range-Doppler maps are processed through deep learning architectures, such as CNNs, LSTMs, and Transformers, for fall detection, gait analysis, and sleep disorder diagnosis. By focusing on the "intelligence" behind the sensor, this workshop provides a roadmap for engineers and data scientists to build privacy-preserving, "invisible" healthcare systems for the smart homes and clinics of.

PROGRAMME

Radar sensing in assisted living
Julien Le Kernec[1]
[1]University of Glasgow

UWB-based In-cabin vital signs monitoring
Igal Bilik[1]
[1]Ben Gurion University of the Negev

TBC
Syed Aziz Shah[1]
[1]Coventry University

TBC
Glenn Forbes[1]
[1]Robert Gordon University

TBC
Kevin Chetty[1]
[1]University College London

TBC
Timothy Constandinou[1]
[1]UK Dementia Research Institute

TBC
Francesco Fioranelli[1]
[1]TU Delft

TBC
Sevgi Zubeyde Gurbuz[1]
[1]NC Stte University

FRIDAY 08:30 – 12:50

Radar Technologies for Space Domain Awareness (SDA)

WF04
EuRAD

Chair: Marco Martorella[1]
Co-Chair: Marina Gashinova[2]
[1]University of Birmingham, [2]University of Birmingham, Birmingham, United Kingdom

Room 13

Space-based infrastructure is expanding at an unprecedented pace, driven by the rapid growth of satellite constellations, increasing platform complexity, multi-mission payloads, and the emergence of disruptive applications such as on-orbit servicing and autonomous space-based facilities. This evolution creates a critical demand for reliable exteroceptive sensing and perception systems capable of operating in complex and contested space environments. As governments, industry, and defence increasingly depend on space-based intelligence and communication assets, there is a pressing need for fast, autonomous, and actionable assessment of high-value space and ground infrastructure. Any disruption to these assets can have severe consequences for national security, economic activity, and essential services. This workshop will explore emerging concepts, technologies, and applications of radar for Space Domain Awareness (SDA), including–but not limited to: • Space Situational Awareness (SSA) and Space Domain Awareness (SDA) using ground-based and space-based radar sensors, including in-orbit sensing
• Distributed, cooperative, and multifunctional radar systems
• RF and electromagnetic systems and components for advanced satellite payloads
• Hybrid sensing and AI-enabled classification techniques for enhanced SDA performance
Leading experts from research institutions, industry, and government organizations will present and discuss current challenges, capability gaps, and technological opportunities. The workshop aims to identify future research directions, highlight state-of-the-art developments, and foster collaboration across sectors to advance radar-enabled SDA capabilities.

PROGRAMME

Passive Radar for SDA
Konrad Jedrzejewski[1]
[1]Warsaw University of Technology

Novel Spaceborne Radars for Surveillance
Marco Maffei[1], Augusto Aubry[1], Massimo Rosamilia[1], Roberto Venturini[1], Antonio De Maio[1]
[1]Thales Alenia Space Italy

Research progress on SSA/SDA at DLR
Markus Peichl[1], Simon Anger[1], Matthias Jirousek[1], Florian Bischeltsrieder[1], Fabian Hochberg[1]
[1]German Aerospace Centre (DLR)

Detecting and tracking threats in-space with a low-cost radar
Joe Milbourn[1], Vidhya Sridhar[1]
[1]TTP

In-orbit sub-THz sensing for SDA
Marina Gashinova[1], Marco Martorella[2], Gruffudd Jones[2]
[1]University of Birmingham, Birmingham, United Kingdom, [2]University of Birmingham

Ground-based Dual-Band Radar for Space Domain Awareness
Richard Reeves[1]
[1]RAL Space

Reconfigurable Intelligent Surfaces for Space Comms and Sensing
Gabriele Gradoni[1]
[1]University of Surrey

Exhibitor TBC
Technical Workshops

Date: Tuesday 6th October 2026
Time: 08:30 – 18:30
Room: 2

Cost: Free to attend for all EuMW 2026 registrants

More details to follow.

SUNDAY OVERVIEW

Room	08:30 – 12:50	14:10 – 18:30
1	**WS-01 EuMC** Additive Manufacturing of Microwave Components and Systems	
2	**Tom Brazil Doctoral School of Microwaves**	
3		
4	**WS-03 EuMC** Advances in microwave to THz biomedical sensing and imaging: application to skin and breast cancer	
5		
6	**SS-01 EuMC:** Challenges and Payoffs in Next-Generation **SATCOM:** Multi-Band, Multi-Orbit, Multi-Constellation Ground Terminals	**WS-11 EuMC** Emerging components for sub-terahertz 6G applications
7	**SS-02 EuMIC** Fundamentals of Microwave PA Design	
8	**WS-04 EuMC** Antenna Technologies for Non-Terrestrial Networks and SATCOM Terminals	
9	**WS-05 EuMC** Current Trends in MMW and THz components	
10	**WS-06 EuMC** Advanced power sensing for frequencies above 140GHz	
11	**WS-07 EuMC** Advances in cryogenic microwave design and measurement techniques of superconducting and spin qubits	
12	**WS-08 EuMC** Advances in AI-Driven Microwave Design: From devices up to system-level	
13	**WS-09 EuMIC/EuMC** Advanced IC Design for mm-Wave and Beyond	
14	**WS-10 EuMIC/EuMC** Exploring the Innovative Technologies and Circuits Driving the Transition to 6G	
15		
16		
17	**WS-02 EuMC** Accurate Signals, Linear Amplifiers: Measurement Techniques from RF to Sub-THz	

EuMC EuMIC EuRAD Students EuMW Exhibitors

MONDAY OVERVIEW

Room	8:30 – 10:30	11:10 – 12:50	14:10 – 16:10	16:50 – 18:30
1	**WM-01 EuMC** On-Wafer Microwave Measurement Techniques for 6G and beyond			
2	**SM-01 EuMC** Modern SatCom Waveforms and Payload Performance: Linearity, PAPR, Spectrum Compliance , and Advanced Signal Analysis		**SM-02 EuMC** Harnessing Phase Information to Improve RF Measurements	
3	**WM-02 EuMC** Open-source Toolchain in RF and Digital Design		**WM-08 EuMC/EuMIC/EuRAD** Reproducible RF & Radar Research with Open-Source Software, Testbeds, and Datasets	
4	**EuMW Student School**			
6	**WM-03 EuMC** Photonic Technologies and Systems for RF Applications			
7				
8		**EuMIC01** EuMIC Opening		
9				
10	**EuMIC02** From TCAD to PDKs: Advanced Modeling of III-V HEMPTs		**EuMIC06** Advanced Circuits Analysis, Simulation, and synthesis	**EuMIC10** MMIC Advanced Automated and Open-Source Design Flows
11	**EuMIC03** High Frequency Mixed-Signal CMOS Components			**EuMIC11** Advanced III/V RF Components
12	**EuMIC04** W-Band and D-Band High-Performance Integrated Amplifiers		**EuMIC07** Millimeter-Wave Phase Shifters and Mixed-Signal Circuits	**EuMIC12** Frequency Multipliers and Oscilators in Si and II-V Based Technologies
13	**WM-05 EuMIC/EuMC** Embedding Sustainability into Electronics: A Workshop for Circuit Designers on Quantification, Implementation, and Future Technologies		**WM-04 EuMC** Old Dog New Tricks: Analog Linearization of RF/Microwave Power Amplifiers for Efficient and Wideband Transmitters	
14	**EuMIC05** Gallium Nitride Power Amplifiers		**EuMIC08** Silicon-Based Circuits and Systems for Emergin Applications	
15	**WM-06 EuMIC/EuMC** Enabling Ultra-Low Noise RF Systems: Technology, Materials and Metrology			
16	**WM-07 EuMIC/EuMC** Is RF GaN-on-Si ready for prime time?			
17			**EuMIC09** GaN Devices and Technolgoies	**EuMIC13** CMOS Devices and Technologies

Room	Evening programme
Galyons Royal Docks	**EuMIC Get-Together** 19:00 - 22:00

EuMC EuMIC EuRAD Students EuMW Exhibitors

TUESDAY OVERVIEW

Room	8:30 – 10:30	11:10 – 12:50	14:10 – 16:10	16:50 – 18:30
1	**EuMC01** Novel Guided-Wave Structures for Microwave Applications		**EuMC04** Advanced Non-Reciprocal Technologies for RF and Microwave Systems	**EuMC08** 3D Passive Components and Non-Planar Microwave Structures
2	**Exhibitor Workshop**		**Exhibitor Workshop**	
3	**Exhibitor Workshop**		**Exhibitor Workshop**	
4	**EuMC02** Millimeter-Wave Circuits and Modules		**EuMC05** Terahertz Antennas	**EuMC09** Millimeter-Wave and Terahertz Devices
6	**EuMC03** Sustainable Microwave and Communication Technologies		**EuMC06** Advances in Quantum Technologies and Educational Initiatives	
7		**EuMW01** EuMW/EuMC Opening		
8				**EuMIC19** EuMIC Closing
9				
10				
11				
12				
13	**EuMIC14** Silicon Based Power Amplifiers	**EuMIC16** Advanced Techniques for Linear PA Design	**EuMC07** AI, 3D, Miniaturized, and Quantum Technologies for Microwave Filters	**EuMC10** Non-Planar Filters
14	**Automotive Forum**			
15		**Women in Microwaves (WiM) 1** Panel session 13:00 – 13:30		
16			**EuMC/EuMIC01** Special Session on Sustainability in Microwave Systems - Materials, carbon Footprint, and Social Impact	
17	**EuMIC15** Integrated Millimeter-Wave Transmitters and Receivers	**EuMIC17** Millimeter-Wave Mixers and Power Detectors	**EuMIC18** Recent Advances in III/V Amplifiers	**EuMC11** Modeling of Propagation Structures and Transitions
Exhibition Hall		**Poster01: EuMIC**	**Poster01: EuMC**	
Operations Office		**Tom Brazil Fellowship Award Finalists Pitching**		
External			**Women in Microwaves (WiM) 2: Royal Observatory Greenwich** 13:30 – 18:30	

Room	Evening programme
Bokan 39	**Automotive Forum Dinner** 19:00 – 22:00
London Excel	**EuMW Welcome Reception** 18:30 – 21:00

EuMC EuMIC EuRAD Students EuMW Exhibitors

WEDNESDAY OVERVIEW

Room	8:30 – 10:30	11:10 – 12:50	14:10 – 16:10	16:50 – 18:30
1	**EuMC12** Active Integrated Phased Arrays and Tx/Rx Module Technologies	**EuMC20** Phase Array Topologies, Elements, and Wide-Angle Beam Scanning	**EuMC27** Smart Antennas, SatCom Apertures, and Array Characterisation	**EuRAD02** Enabling Technolgoies for Novel Sensing Systems
2	**Exhibitor Workshop**		**Exhibitor Workshop**	
3	**Exhibitor Workshop**		**Exhibitor Workshop**	
4	**EuMC13** Millimeter-Wave and THz Communication	**EuMC21** Millimeter-Wave and THz Photonics Techniques	**EuMC28** Innovative Additive Fabrication Techniques	**EuMC34** RF Exposure Modeling and Characterization of Biological Materials
6	**EuMC14** Components Based on Emerging Materials and Processes	**EuMC22** Biomedical Imaging and radar Sensing	**EUMC29** Special Session on Green Energy Transmitting and Harvesting RF/Millimetre-wave/Microwave Devices and Internet of Things Sensors	**EuRAD03** Advanced Automotive Radar Signal Processing
7	**EuMC15** Integrated CMOS and GaN Power Amplifiers	**EuMC23** Advanced Power Amplifier Design	**EuMC30** Digital Linearization Techniques	**EuMC35** Load-Modulated Power Amplifiers
8	**EuMW02** EuMC/APMC Special Session on Microwave Technologies for Quantum Computers and Quantum Sensing in Asia-Pacific Region		**EuRAD01** EuRAD Opening	
9				
10				
11	**EuMC16** EuMA-EurAAP Special session on Co-Design of Electronics and Antennas for Active Array Antennas			
12	**Defence Forum**			
13	**EuMC17** Sustainable and Ambient Energy Harvesting for Wireless Power Transfer	**EuMC24** Next-Geenration Backscatter Tags and Harmonic Radar Systems	**EuMC31** Focused Session on Advanced Rectifiers and Rectennas for Microwave Power Transmission	**EuRAD04** AI-Based Enhancement of Radar Data
14	**EuMC18** Advanced VNA Measurement Techniques	**EuMC25** Advanced On-Wafer Calibration and Characterization Techniques for mmWave and Sub-THz Technologies	**EuMC32** Techniques for Material Characterization From Waveguide Alignment to Permittivity Measurement	**EuMC36** Advanced Characterization of RF Devices and Systems
15		**Career Platform**		
17	**EuMC19** Advanced Filter Design AI-Driven, ML-Enhanced & Space-Mapped	**EuMC26** Advanced Modeling Methods for Active and Integrated Circuits	**EuMC33** Recent Advances in Electromagnetic Theory and Computational Numerical Techniques	**EuMC37** Antenna/Metasurfaces Design and Imaging Techniques
Exhibition Hall		**Poster02: EuMC**	**Poster03: EuMC**	

Room	Evening programme
Sundown Bar, Sunborn Yacht	**Defence Forum Dinner** 18:30 - 22:00
London Museum Docklands	**EuMW Gala Event** 19:00 - 23:00

EuMC EuMIC EuRAD Students EuMW Exhibitors

THURSDAY OVERVIEW

Room	8:30 – 10:30	11:10 – 12:50	14:10 – 16:10	16:50 – 18:30
1	**EuMC38** Metasurface and Leaky-Wave Antennas	**EuMC44** Antennas for Next-Generation Millimeter-Wave Communication and Sensing	**EuRAD12** Joint Sensing and Communications	**EuRAD15** Distributed Radar Synchronisation and Sensing
2	**Exhibitor Workshop**		**Exhibitor Workshop**	
3	**Exhibitor Workshop**		**Exhibitor Workshop**	
4	**EuRAD05** Advanced Automotive Radar Signal Processing	**EuRAD08** Radar-Based Mapping, Locaization, and Sensing for Autonomous Platforms	**EuRAD13** Medical and Health Applications	**EuRAD16** Industrial and Civilian Applications
6	**EuMC39** Design and Characterization Techniques		**EuMC48** Channel Characterization and OTA Testing	
7	**EuMC40** LNAs, Phase Shifters, and Frequency Multipliers	**EuMC45** Advances in Oscillators and Phase-Locked Loops	**EuMC49** Front-End and Transceiver Modules, System-In-Package Technologies	
8	**EuRAD06** Radar System Simulators	**EuRAD09** Direction of Arrival Estimators		**EuMW03** EuMW/EuMC Closing
9	**EuMC41** Reconfigurable and MIMO Antennas			
10				
11	**Space Forum**	**Space Forum**		
12	**EuRAD07** AI for Cognitive Radar, Waveform Intelligence & EW	**EuRAD10** AI for Detection, tracking and Multi-Modal Perception	**EuRAD14** Radar Beamforming and Frontend Technologies	**EuRAD17** MIMO Radars: Array Design, target Detection, DOA Estimation
13	**EuMC42** Reconfigurable Intelligent Surfaces	**EuMC46** Metasurfaces and Metamaterials	**EuMC50** Periodic and Quasi-Periodic Structures	**EuRAD18** AI for Short Range radar Applications
14	**6G/Next-G Forum**			
15		**EuRAD11** Special Session EMSIG - the UK Radar Society and UK Radar Ecosystem	**STh-01 EuRAD** Brief INCOMPLETE History of Radar	
16	**WTh-01 EuMC/EuMIC/EuRAD** Active Phase Arrays: Bridging Design and Measurement for Young and Industry Professionals			
17	**EuMC43** Advanced Millimeter-Wave and Sub-THz Sensing, Imaging, and Communication systems	**EuMC47** Components for Microwave and THz Sensing	**EuMC/EuRAD01** Special Session UKRI/ EPSRC Research Projects in Microwave, Millimetre MWave and THz Research	
Exhibition Hall		**Poster01: EuRAD**		

Room	Evening programme
Off site locations	**6G Forum Dinner** 19:00 - 22:00
Fremantle Bar & Kitchen	**Radar Interchange** 19:00 - 22:00

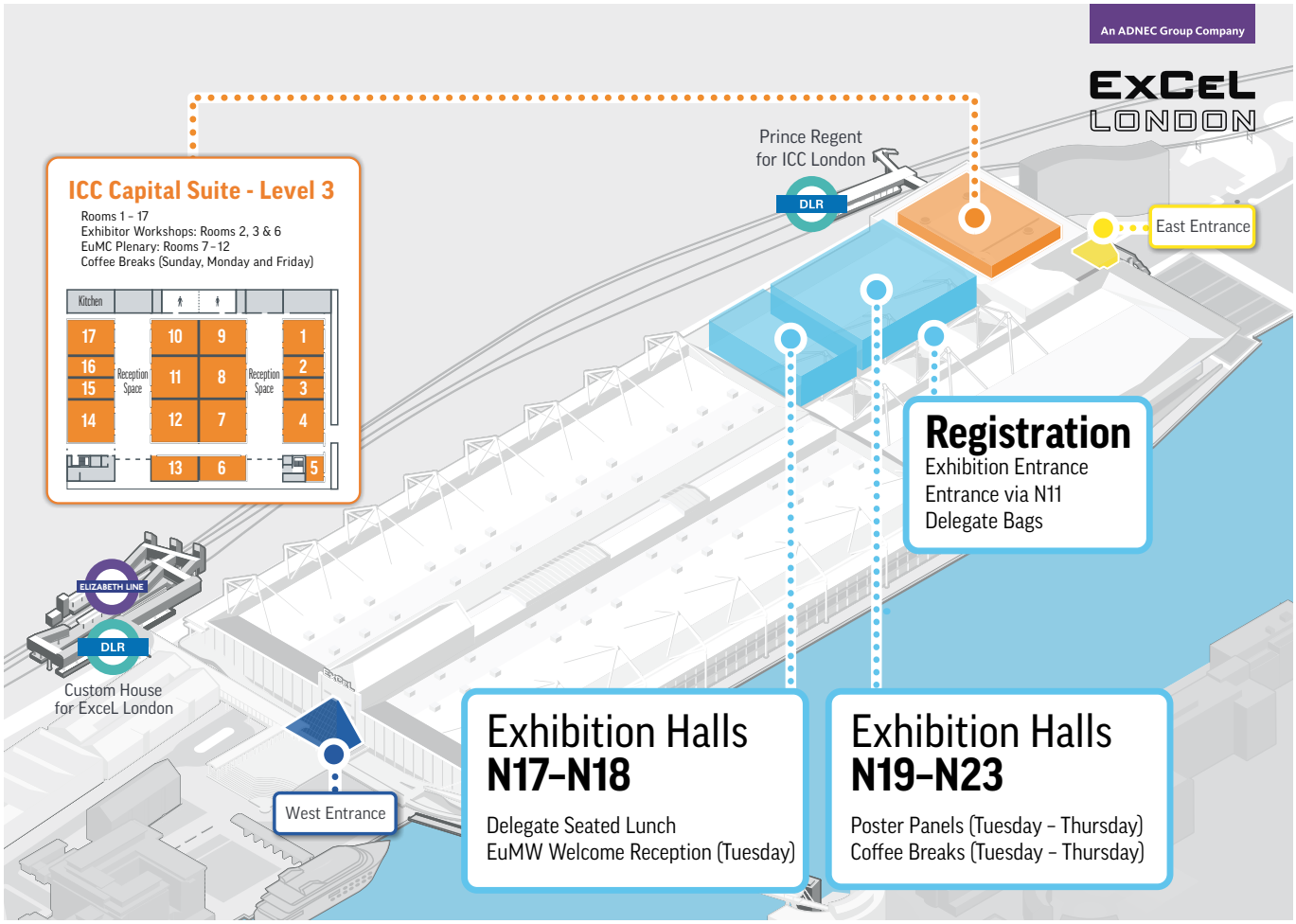
EuMC EuMIC EuRAD Students EuMW Exhibitors

FRIDAY OVERVIEW

Room	8:30 – 10:30	11:10 – 12:50	13:50 –15:50	16:20 – 18:00
1	**EuRAD19** Defence and Multistatic Radar Imaging	**EuRAD25** Space Domain and Space Situational Awareness		
2	**WF-01 EuRAD** Radar Research Trends for Mobility: Automotive and Beyond			
3	**WF-02 EuRAD** Distributed/Multistatic radar principles and practice			
4	**EuRAD20** Applied Signal Processing and Systems	**EuRAD26** Geosceince, Weather, and Environmental Remote Sensing		
6	**EuRAD21** Applications of High-Resolution SAR Systems	**EuRAD27** Activity, Behaviour and Infrastructure Monitoring		
7			**EuRAD29** EuRAD Closing	
8				
9				
10	**SF-01 EuRAD** Integrated Sensing and Communications: Fundamentals, State-of-the-Art and the Road Ahead			
11	**EuRAD22** Special Session EMERSON Student's Challenge			
12	**EuRAD23** Cognitive Techniques, Sensor Tasking and Machine Learning	**EuRAD28** Detection and Tracking		
13	**WF-04 EuRAD** Radar Technologies for Space Domain Awareness (SDA)			
14	**EuRAD24** SAR Imaging and Moving Target Refocusing			
15	**WF-03 EuRAD** Remote Sensing for Medical Applications			
16	**SF-02 EuRAD** Digital Twins for Radar Systems: Modeling, Simulation, and AI Applications			
17	**SF-03 EuRAD** Beyond Vision: 4D Radar and Sensor Fusion AI for Robust Perception			

EuMC EuMIC EuRAD Students EuMW Exhibitors

Venue Overview



Exhibitor List (Stand Number)

4a manufacturing GmbH (L260) · 50.com Inc. (L154)

A A-INFO INC (K84) · A1 Microwave (L276) · Aaronia AG (A10) · ABS Technics BV (L118) · Accucom Ltd (L284A) · ACST GmbH (L182) · Active Technologies SRL (L54) · Advanced Technical Ceramics (K104) · AGC Multi Material Europe SASU (J45) · Alaris - The RF Technology Group (L246) · ALPHA-RLH (L336) · Alroy Microwave (J40) · Alter Technology Tüv Nord S.A.U. (L300) · AMBASEN (L240) · American Standard Circuits Inc. (L102) · Ampwave Defense LLC (L270) · Amtery Corporation (L196) · Analog Devices LTD (B20B) · Anritsu EMEA GmbH (K38) · Ansys Inc. (J30) · Antae (L106, L122, L170) · Antares Defence Systems Ltd (L272) · AntenneX BV (J10) · AO Technologies (L94) · Artech House (L116) · Aspocomp Group (L86) · AT Microwave (K122) · ATEK MIKRODALGA AS (L108) · Aumiwalker Technology CO.,LTD (L268) · Auriga PIV-Tech (F25) · AVT GROUP (L60)

B Becker Nachrichtentechnik GmbH (D75B) · Beijing Xibao Electronic Technology Co. Ltd. (L152) · Bits&Chips (Pub Corner 1)

C Cadence Design Systems Ltd (D25) · CADFEM Germany GmbH (J30) · Calibre RF & Microwave Consultancy Ltd (L202) · Castle Microwave Ltd (F20) · CEA Leti (L286) · CEMWorks (L248) · Changzhou Wujin Fengshi Connectors Co., LTD (K114) · Chengdu Bearing New Machinery Equipment Co. Ltd. (L332) · Chengdu Filter Technology Co., Ltd (L242) · Chengdu Hongke Electronic Technology Co., Ltd (K70) · Chengdu Huaxing Huiming Technology Co., Ltd (L200) · Chengdu Precision Rong Creation Technology Co.Ltd (L48) · Chengdu RF Miso Inc. (L18) · Chengdu Ruida Iot Technology Co.,ltd (L124) · Chengdu Sheenst Technology Co.,Ltd (L174) · Chengdu Simon Elektronika Teknologio Co. Ltd. (K128) · Chengdu Skylink Intellitech Co. Ltd. (L204) · Chengdu Yuexiang Technology Co. Ltd. (L302) · Cicor Microtech AG (K24) · Coilcraft (K54) · Comtest Engineering (K96) · Copper Mountain Technologies (K50) · CPE Italia S.P.A. (L244) · CPI TMD Technologies Ltd (K120)

D Dalian Dalicap Technology Co. Ltd (L138) · DANDAN (L172) · Danyang Teruilai Electronics Co. Ltd. (K10) · Dassault Systèmes UK Ltd (A40C) · Diconex Deti (K88) · Die Devices (L252) · DiTom Microwave Inc. (L326) · DMTL (B20) · Dongyi Microwave (L130) · dSPACE Group SE & Co. KG. (C10)

E E&C Anechoic Chambers NV (K140) · EECL (K110) · Electronic Specifier Ltd (Pub Corner 2) · Electronics World (Pub Corner 1) · Elvia Electronics (K124) · EMITE (L106) · Equipements Scientifiques (ES (D45) · Eravant (G25) · ERZIA (D45) · Etrontimes Technology (L14) · EurAAP (L310) · European Microwave Association (EuMA) (L176) · European Microwave Week 2027 (L12) · Everbeing International Corp. (L126) · everything RF (Pub Corner 1)

F Faraday Defense Corporation (L36) · Farran Technology Ltd (K98) · Filtronic (D55) · Flann Microwave Ltd. (G20) · Focus Microwaves Inc. (F25) · FormFactor Inc. (D10) · Fraunhofer FHR (B35) · Fraunhofer Heinrich-Hertz-Institut (D75C) · Fraunhofer IAF (B35) · Fraunhofer Inst Reliability Microintegration IZM (L290) · Frequencies Idea Technology Co. Ltd. (L30) · Fujipoly Europe B.V. (L66)

G Gapwaves (K66) · Genmix Technology Co., Ltd (L230) · Gigatronix Ltd (K68) · Glenair UK Limited (B30B) · Gold sky Microwave (L298) · Golden Devices GmbH (L104) · Golden Loch Inc. Co. Ltd. (L266) · Greenray Industries, Inc (K104) · Greenray Industries, Inc (K104) · Guangdong Kansai Technology Ltd. (L308) · Guangdong Kansaitom Technology Ltd (L308)

H HAROGIC Technologies Co., Ltd (H20) · Harp Technologies Oy (L228) · Hebei Far-East Communication System Engineering Co (L212) · hf-Praxis (Pub Corner 1) · HHV Advanced Technologies Pvt Ltd. (L280) · HI MICROWAVE (L10) · High Frequency Electronics (Pub Corner 2) · HJEMC (L88) · HTD Huayang Technology (L222) · Huang Liang Technologies Co. Ltd. (L304A) · Huber + Suhner AG (K34) · HYMAG'IN (L264) · HYTEM (L72) · HzBeat (K134)

I IEEE Microwave Magazine (Pub Corner 2) · IEEE MTT-S/ IMS2027 (K90) · IHI Hauzer Techno Coating B.V. (L238) · IHP GmbH (K42) · IHP Solutions GmbH (K42) · IMST GmbH (K76) · Innertron Inc. (L218) · iNPACK (L38) · iNRCORE (B25A) · Inspower Co. Ltd. (L180) · Integra Technologies Inc. (L22) · Intergrated Circuit Research Institute (L62) · Interlligent UK Ltd (L322) · Interwiser (L70)

J Johanson Technology (L136) · JQL Technologies Corp. (K32) · JSD PCB (L82) · JunCoax RF Technologies Co. Ltd. (K80) · Junkosha Inc. (D05) · JYH FUTURE (L140)

K KEYCOM Corporation (K100) · Keysight (A20) · Knowledge Resources GmbH (L178) · Knowles (D50) · KOSTECSYS CO., LTD. (L224) · KVG Quartz Crystal Technology GmbH (L74) · KYOCERA AVX Components Ltd (K46)

L LA Techniques Ltd (K82) · Ladybug Technologies (L106) · Lanjian Electronics (L292) · LeapWave Technologies (L334) · Link Microtek Ltd (D80) · Low Noise Factory (L318) · LPKF Laser & Electronics SE (K62)

M MACOM Technology Solutions (B45) · Marki Microwave, LLC. (B15) · MathWorks (K74) · Maury Microwave (B30) · MegiQ (L106) · Melcom Electronics Ltd (L134) · Mesuro Limited (F25) · MIcable Inc. (K12) · Mician GmbH (K58) · Microchip Technology Ireland Ltd. (D85A) · MicroPhoton Technology (L24) · Microsanj (D20) · Microwave Amps Ltd. (K118) · Microwave Factory Co. Ltd. (H25) · Microwave Journal (Pub Corner 2) · Microwave Journal/ Signal Integrity Journal (K102) · Microwave Road (K142) · Microwave Vision Group (MVG) (L216) · Microwavefilters & TVC Srl (K112) · Microwaves & RF (Pub Corner 1) · Miczen Technologies Co., Ltd (L306A) · Milexia (D30) · Miller MMIC Inc. (A50B) · Mini-Circuits (A40A) · Mintres BV (L304) · MPG - Microwave Products Group (K48) · MPI Corporation (C25) · Murata Electronics Europe B.V. (B40B)

N National Instruments (A40B) · Northern Waves AB (L112) · NSI-MI Technologies (K132) · NSTIC GaN (L258)

O Octric Semiconductors Ltd (L214) · OPHIR RF Inc (L198) · Optiprint AG (L56) · Optispac, Inc. (L330)

P Pasquali Microwave Systems SRL (K30) · Passive Plus Inc. (B25A) · PCB Technologies (L38) · Pendulum Instruments Sp. zo.o. (L282) · Pico Technology (L78) · Plexsa Manufacturing Hungary Kft. (K52) · PM Industries Inc. (L110) · Presidio Components (L28) · Primcera Electronics Co., Limited (L208) · Procurement Pro (Pub Corner 2)

Q Qotana Technologies Co. Ltd. (B50B) · QP Technologies (L46) · QRT Inc. (K136) · Qualwave Inc. (L186) · Quantic Electronics (K60) · QuSine research project (D75C) · QWED Sp. z.o.o (L194)

R Radiall (K28) · Radio Design Limited (L328) · RapidRF GmbH (B50A) · RCD Components (B25A) · Reliasat Limited (D85B) · RF Com Limited (B25B) · RF Globalnet (Pub Corner 2) · RF Lambda Europe GmbH (A50A) · RF Morecom Corea (L44) · RF ONE (L168) · RF SPIN S.R.O. (B25C) · RFHIC Corporation (B40A) · RFlight Communication Electronic Co. Ltd (K130) · RFMW UK LTD (B30A) · Richardson RFPD (D70) · Rigol Technologies EU GmbH (D75A) · Rogers BV/ Rogers Corporation (L314) · Rohde & Schwarz (B10) · Rosenberger Hochfrequenztechnik GmbH & Co. KG (F10) · RUPPtronik GmbH (K22) · RW MMIC (L142)

S S2P Smart Plastic Products (L284) · Samtec France LLC (D40) · SARAS Technology Ltd. (K94) · Scientific Microwave Corp. (K20) · SERMA Group (L68) · Shaanxi Shinhom Enterprise Co. Ltd. (L158) · Shanghai Hexu Microwave Technology Co.,Ltd (B25D) · Shanghai Xinxun Microwave Technology Co. Ltd. (L84) · Siglent Technologies Germany GmbH (G35) · Signal Solutions Nordic OY (K116) · Slipstream Engineering Design Ltd. (L288) · SLK Technologies Inc. (L32) · Smiths Interconnect (G10) · SomeFly Interconnection USA Ltd. (L220) · SomeFly Technologies Co. Ltd (L220) · Southwest Microwave (L98) · Spectrum Control (H15) · Spectrum Elektrotechnik GmbH (K78) · Spinner GmbH (H10) · SSM Susumu Deutschland GmbH (K92) · STACEM (L100) · Sumitomo Electric Device Innovations Inc (D35) · Sumitomo Electric Europe Ltd. (D35) · SuperApex LLC (L286A) · Suzhou Eoulu System Integration Co. Ltd. (L256) · Suzhou Inston Technology Co.,Ltd (L274) · Suzhou Lair Microwave Inc. (L40) · Suzhou Semi-Mile Test and Control Co.,Ltd (L132) · Swissto12 (L50) · Synopsis Corporation Group (J25)

T TagoreTech Inc. (G30) · Talent Microwave Inc. (K106) · Talent Microwave Inc. (L192) · Tecdia Inc. (L236) · TECNISCO Ltd (L16) · Tecnomec S.R.L. (L184) · Tektronix International Sales GmbH (L80) · Teledyne e2v Semiconductors (L210) · Teledyne Microwave UK (L210) · Teledyne Reynolds UK (L210) · Telonic Berkeley Inc (K20) · Temwell Group (L156) · TIANFUCHIP (L296) · Tianqiong Electronics (L150) · Times Microwave Systems (D60) · TMY Technology Inc. (L52) · TNO (B35) · Tong Zhi Li Trading Co., Ltd (L312) · TOTOKU INC. (L306) · Transcom Inc. (L304A) · Transline Technology Inc. (K20) · Trigiant Technology (L58) · TRUMPF Huttinger GmbH + Co. KG (K108) · TWM Technology Ltd (L278)

U Ulbrich of Austria (L144) · UNI-Trend Technology EU GmbH (K36) · United Monolithic Semiconductors (UMS) (C20) · University of Bristol (L232) · Uziwave (L90)

V Varioprint AG (K64) · Ventec International Group (Europe) (L206) · Viper RF Limited (L250) · Virginia Diodes Inc. (D15) · Vishay Electronic GmbH (K72) · Vomac Technology Co., Ltd. (L26)

W Watech Electronics Co., Ltd. (K56) · Wave Tech Co., Ltd (L262) · WAVEPIA Co. Ltd (K138) · WavePro, a Garlock Brand (K86) · WCI CO., LTD (D80) · Weasic (L106) · WIN Semiconductors Corp. (C15)

X Xi'an Jingshi Electronics Co., Ltd (L188) · Xi'an Longtrox RF Scien-Tech Co. Ltd. (L92) · Xinqiyuan Technology Co. Ltd. (L148) · Xtalong Electronics (L76) · XtalTQ Technologies Co. Ltd (L120)

Y Y-TECH Co. Ltd. (J35)

Z ZDECL (L166) · Zhejiang Jiakang Electronics Co. Ltd. (L146) · Zhixin Leitong Microsystem (L128) · ZTS Technologies Co., Ltd (L164)