EUROPEAN MICROWAVE WEEK 2017
NÜRNBERG CONVENTION CENTER,
NUREMBERG, GERMANY
8TH - 13TH OCTOBER 2017
SIX DAYS ONE EXHIBITION
THREE CONFERENCES
EUROPEAN MICROWAVE WEEK 2017
CONFERENCE PROGRAMME
EUROPE’S PREMIER MICROWAVE, RF, WIRELESS AND RADAR EVENT
REGISTER ONLINE AT:
www.eumweek.com
European Microwave Week 2017 Sponsors

The organisers would like to thank the following companies for their help and valued support throughout this year’s event:

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Welcome to Nuremberg, the medieval city at the heart of Franconia in Northern Bavaria! It is my great pleasure to welcome you to the 20th European Microwave Week (EuMW) to be held at the Nürnberg Convention Center (NCC) from Sunday 8th to Friday 13th October 2017. After four years and the very successful editions in Rome (2014), Paris (2015), and London (2016) the EuMW returns to Nuremberg. This conference event, which was started by the European Microwave Association (EuMA) in 1998, is comprised of the 47th European Microwave Conference (EuMC) to be held from 8th to 12th October, the European Microwave Integrated Circuits Conference (EuMIC) which will take place from 8th to 10th October, and the European Radar Conference (EuRAD) which will run from 11th to 13th October. The three conferences are accompanied by the traditional 3-day trade show on microwaves and RF, which attracts about 300 exhibitors and is the largest of its kind in Europe.

Based on the invaluable commitment of some 450 reviewers, the 100 members of the Technical Programme Committee constituted an excellent programme comprising more than 500 presentations. This includes the contributions to three Focused Sessions devoted to conformal antennas for defence, security, and space applications, to advanced materials, and to the latest developments in vacuum electronics. The programme also includes six Special Sessions, four of which highlight the research activities in Central Europe, in the Asia Pacific Region, and in Latin America. Another one presents the latest research on stochastic approaches in Electromagnetic Compatibility (EMC). In the sixth Special Session representatives from US, European, and German agencies promote international funding opportunities.

The regular programme, which is organised in 85 oral and six interactive sessions, is complemented by 38 Workshops and five Short Courses covering most relevant topics ranging from Millimetre-Wave Circuits to 5G, from Power Amplifiers to Automotive Radar, and from Phased Arrays to Satellite Communications.

This year’s Defence, Security and Space Forum (DSS), a well-established and highly appreciated event at the EuMW, is devoted to ‘The Internet of Space – Technologies and Applications’. Its organisers have succeeded in attracting high-level speakers to discuss the latest developments of what is sometimes also coined ‘New Space’ or ‘Open Space’, and to explore the impact on ‘Old Space’.

Internationally renowned speakers will discuss latest trends and developments in their keynotes at the conferences’ Plenary Sessions. At the Opening Session of the EuMW Bruno Jacobfeuerborn, CTO of the Deutsche Telekom, will outline the prospects of 5G and the Internet of Things while Reinhard Ploss, CEO of Infineon, will address the challenges associated with designing chips for the digital age. The EuMIC opens with presentations by Tom Lee from Stanford University, CA/USA, on RF CMOS-based MMICs and by Lars-Erik Wernersson from Lund University, Sweden, on III-V MOSFET devices. Josef Hausner from Intel Mobile Communications, Germany, has accepted the invitation to close the EuMIC with a review on the state of the art of wireless applications. The EuRAD Opening, which is held in conjunction with the DSS, is devoted to radar applications in space. Paul Rosen from the NASA Jet Propulsion Laboratory, CA/USA, will highlight the latest achievements in radar remote sensing, while Gerald Braun from German Aerospace Center, Germany, will familiarise us with space surveillance and tracking. Ludger Verweyen from Infineon, Germany, will address the consumer and industrial applications of radar systems at the EuRAD Closing Session. The EuMW will close with a panel of eminent specialists who will debate ‘Fully automated driving. Enabled by microwaves. What else?’

This year’s EuMW introduces Session Keynotes as a new format to boost industrial participation and intensify the interaction between industry and academia. For this, internationally recognized experts from industry will open selected sessions with presentations on challenges and state-of-the-art achievements in their field.

The traditional Women in Microwave Engineering (WiM) event, co-sponsored by the IEEE MTT-Society, includes a visit to the ‘Rundfunkmuseum Fürth’, which demonstrates the historical role played by the Nuremberg metropolitan area in the RF industry. This year, the WiM attendees will have the opportunity to interact with high-school girls who are invited to participate in a MINT event (German acronym for STEM).

The EuMW 2017 will host several events especially for the younger generation. This includes the very stimulating and successful Student Challenge, which will have the same format as in previous years. The Student Design Competition comprises two tasks to be prepared in advance. As a novelty, it will also feature a design task to be carried out on-site. This will happen in the frame of a hands-on design experience event. The latter is also part of the Student and the Doctoral School, which both start with a high-level 2-day lecture programme. The Career Platform, finally, will continue the successful format of previous years.

The ‘Week’ wouldn’t be the ‘Week’ without its traditional social events. These include Monday’s EuMIC Get-Together, Tuesday’s Welcome Reception sponsored by Keysight Technologies, and the EuRAD lunch on Friday. In addition, the Free State of Bavaria is pleased to host a reception on Wednesday at the ‘Kaiserburg’, the imperial castle of Nuremberg.

Hopefully, the week’s programme will let you enjoy Europe’s PRIME EVENT in 2017 and will give you plenty of opportunities to satisfy your professional curiosity, thus making 2017 a truly PRIME YEAR in your calendar. Yet, don’t forget to explore Nuremberg with its rich cultural past and also its more recent landmarks reminding us where last century’s historical events started that shook the world.

Arne Jacob,
General Chairman
CONFERENCE REGISTRATION INFORMATION

Fast Track Badge Retrieval
Register online and print out your badge in seconds onsite from the Fast Track Check In Desk

Register Online at www.eumweek.com
ONLINE registration is open from 1st June 2017 up to and during the event until 13th October 2017.
ONSITE registration is open from 16:00 on 7th October 2017.

ADVANCE DISCOUNTED RATE (up to and including 8th September) STANDARD RATE (from 9th September & Onsite).

ONLINE REGISTRATION

- Online registrants should make online up to and including 8th September (these are approximately 40% cheaper than the Standard Rate)
- Online registration is open from 16:00 on 7th October 2017 and then at the times detailed below.

ONLINE REGISTRATION DETAILS

- All registrations should be made online at www.eumweek.com. Those completed up to and including 8th September will be charged at the ‘Advance Discounted Rate’ and those from 9th September will be charged at the ‘Standard Rate’.
- Online registration is open from 1st June 2017 up to and during the event until 13th October 2017. You can also register ONSITE from 16:00 on Saturday 7th October 2017 and then at the times detailed below.

ONSITE REGISTRATION

Onsite registration is available:
- Saturday 7th October  16:00 - 19:00
- Sunday 8th October  07:30 - 17:00
- Monday 9th October  07:30 - 17:00
- Tuesday 10th October 07:30 - 17:00
- Wednesday 11th October 07:30 - 17:00
- Thursday 12th October 07:30 - 17:00
- Friday 13th October 07:30 - 10:00

Onsite registration will be charged at the Standard Rates (see pricing table on the following page).

HOW TO REGISTER

Online
- All registrations should be made online at www.eumweek.com.
- Delegates can register for one, two or all three of the conferences, workshops and short courses.
- 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.

Onsite
- The registration area will be located at the entrance to the conference centre as sign posted.
- 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 or cash. Receipts will be given accordingly.
If you have any questions regarding registration procedures and payment, please contact: eumwreg@itnint.com.

BADGE COLLECTION AT FAST TRACK CHECK IN DESK
- All online registrants should bring a printed copy of their email registration receipt with the barcode and a photo ID. At the entry to the convention centre, they may scan the barcode at the Fast Track check-in desks and present their ID to obtain the badge.
- Online registrants without printed emails may also obtain their badges at the Self Service registration terminals (photo ID required).
- All onsite registrants using the Self Service terminals will receive their printed badge upon payment.
- Once you have collected your badge, you can collect the conference proceedings on USB stick and delegate bag for the conferences from the specified delegate bag area by scanning your badge. Processing will be quick and easy but queues may form at busy times, so please arrange to collect your badge well in advance of your first conference session.

COFFEE BREAKS AND WELCOME RECEPTION
- Upon presentation of their badge delegates will be served free coffee during the coffee breaks.
- There will be two coffee breaks per day. On Friday, there will be only one coffee break in the morning.
- The Welcome Reception takes place in Room Sydney and Restaurant Vasco da Gama after show close at 18:30 on Tuesday 10th October. Badges must be presented at the entrance.

STATE RECEPTION – 11TH OCTOBER 2017
The Free State of Bavaria hosts a reception at the Imperial Castle of Nuremberg on Wednesday 11th October 2017, 19:00 to 22:00. As only limited space is available, it is not possible to accommodate all attendees; only conference delegates and invited persons may join the State Reception. Tickets will be available on a first-come, first-served basis in the registration area (NCC Ost, level 0) on Wednesday 11th October 2017, between 11:00 and 17:00.

CONFERENCE AMENITIES AT EUMW 2017
- Delegates will be granted free public transportation in Nuremberg.
- Free water will be supplied at dispensers distributed all over the NCC and at the Keysight booth in the Exhibition.

CONFERENCE LOCATION
The conferences will be held in different rooms over the conference dates. Please refer to the Conference Matrix. Registration at one conference does not allow access to the sessions of the other conferences.
Reduced rates are offered if you have society membership to any of the following*: EuMA, GAAS, IET or IEEE.

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

If you register for membership through the EuMW registration system, you will automatically be entitled to discounted member rates.

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 13th October 2017).

The fees shown below are invoiced in the name and on behalf of the European Microwave Association. EuMA's supplies of attendance fees in respect of the European Microwave Week 2017 are exempted from German VAT under Article 4 no. 22a German VAT Act.

### ADVANCE REGISTRATION CONFERENCE FEES (UP TO AND INCLUDING 8TH SEPT.)

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<th>CONFERENCE FEES</th>
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<td>Society Member (*any of above)</td>
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<tr>
<td>1 Conference</td>
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<tr>
<td>EuMC</td>
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<td>EuMC + EuMIC</td>
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### STANDARD REGISTRATION CONFERENCE FEES (FROM 9TH SEPT. AND ONSITE)

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<td>EuMC + EuRAD</td>
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### WORKSHOP AND SHORT COURSE FEES (ONE STANDARD RATE THROUGHOUT)

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<tr>
<td>Half day WITH Conference registration</td>
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<td>€ 140</td>
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<td>Full day WITHOUT Conference registration</td>
<td>€ 180</td>
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### Other Items

**STATE RECEPTION – 11TH OCT 2017**

Tickets for the state reception are free, but are limited and available by invitation or on a first-come, first-served basis.

**Proceedings on USB Stick**

All papers published for presentation at each conference will be on a USB stick, given out FREE with the delegate bags to those attending conferences. The cost for an additional USB stick is € 50.

**International Journal of Microwave and Wireless Technologies (8 issues per year)**

International Journal combined with EuMA membership: € 67 for Professionals or € 57 for Students.

**Partner Programme and Social Events**

Full details and contacts for the Partner Programme and other Social Events can be obtained via the EuMW website www.eumweek.com.

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**EUROPEAN MICROWAVE WEEK WORKSHOPS & SHORT COURSES**

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<th>Title</th>
<th>Location</th>
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**SPECIAL FORUMS & SESSIONS**

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<tr>
<td>Wednesday 11th October</td>
<td>08:30 - 18:30</td>
<td>Defence, Security &amp; Space Forum</td>
<td>St. Petersburg</td>
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<td>€ 20 for delegates (those registered for EuMC, EuMIC or EuRAD)</td>
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<td>Monday 9th - Wednesday 11th October</td>
<td>08:30 - 17:50</td>
<td>European Microwave Student School</td>
<td>Neu Delhi</td>
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<td>Monday 9th - Wednesday 11th October</td>
<td>08:30 - 17:50</td>
<td>European Microwave Doctoral School</td>
<td>Singapour</td>
<td>3</td>
<td>€ 80</td>
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Register Online at www.eumweek.com

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ONSITE registration is open from 16:00 on 7th October 2017.

ADVANCE DISCOUNTED RATE (up to and including 8th September) STANDARD RATE (from 9th September & Onsite).
The Defence, Security and Space (DSS) Forum is jointly organised by the European Microwave Association (EuMA) and Microwave Journal, to complement important topics of the European Microwave Week in the defence, security and space sector.

This year’s guiding topic is The Internet of Space - Technologies and Applications. Vast areas of the globe, from oceans and deserts to inhabited areas with lagging infrastructure development, are without sufficient Internet connectivity. Yet, commercial and societal progress as well as safety and security are increasingly linked to access to the information superhighway. Equally, military missions require reliable and secure data communication pathways. A new class of satellite communication services promises to cover those needs, using various platforms from Low Earth Orbit (LEO) to Geostationary (GEO) satellites, jointly referred to as the Internet of Space.

The Keynote speakers will, in two in-depth presentations, discuss technologies and applications from the viewpoint of a major player in the “large constellation” field, and share views of the opportunities the Internet of Space will offer for military markets and missions. The Executive Forum will add to these viewpoints from the perspective of established as well as newly emerging players in the field.

The Internet of Space is a nascent field where opportunities abound, yet many crucial technological decisions still have to be made – for many in the field, it offers a once-in-a-lifetime opportunity to make important contributions to a field closely related to state-of-the-art microwave and millimetre-wave technologies. Join us for an exciting day of technology, hear from the experts, and socialise during lunch and the concluding Cocktail Reception!

Programme

08:30 - 10:10 EuRAD Opening Session
10:10 - 10:50 Coffee Break
10:50 - 12:30 The Internet of Space – Technologies and Applications
Two keynote speakers from the industry will present their view on key applications and the related technologies needed for the realisation of the Internet of Space. The presentations will cover commercial as well as military applications.
- The world’s largest satellite constellation ‘OneWeb’ – Redefining satellite communications - Wolfgang Duerr, Airbus DS Inc. USA
- The Connections are Key: The implications of the Internet of Things on military technology - Joe Mariani, Deloitte, USA
12:40 - 13:40 Strategic Analytics Lunch & Learn Session
This session adds a further dimension to the topics by offering a market analytics perspective, illustrating the status, development and potential of the market for the Internet of Space.

13:50 - 15:30 Microwave Journal Industry Panel Session
This session offers an industrial perspective on the key issues to be addressed in the defence, security and space sector. In accordance with this year’s Defence, Security and Space theme the panel will investigate the opportunities for applications of the Internet of Space as well as address the technological challenges.

15:30 - 16:10 Coffee Break
16:10 - 17:50 DSS Executive Forum
High level speakers from leading Defence and Space companies present their views and experiences on the upcoming technologies and applications in the civil and military domains. They will be complemented by speakers from a government agency, consulting company and a start-up, who will offer their views on research needs, trends and New Space opportunities and challenges. The forum includes:
- Erich Auer, TeSat SpaceCom, Germany
- Wolfgang Duerr, Airbus DS Inc., USA
- Matthias Spott, eightyLEO, Germany
- Joe Mariani, Deloitte, USA
- Siegfried Voigt, DLR, Germany

17:50 - 18:30 Cocktail Reception
The opportunity to network and discuss informally the issues raised throughout the Forum.

Registration and Programme Updates
Registration fee is €20 for those who registered for a conference and €60 for those not registered for a conference. The Conference Special Events section of the EuMW website will give further details and updates.
Women in Microwave Engineering

We continue the tradition of holding the Women in Microwave Engineering (WiM) event, sponsored by IEEE MTT-S during the European Microwave Week. This year’s event will take you on a journey through the history and the future of communication technology. Of course, both women and men are welcome. The WiM session with several talks and discussions as well as a subsequent social event will take place on Tuesday 10th October, in the afternoon. For more information and registration details, please visit www.eumweek.com/docs/women_microwave.html.

Student Design Competitions

The Student Design Competitions involve master and doctoral students designing and measuring a microwave device developed prior to and this time even at the conference. This year three competitions will be offered. Thrust 1 is made to learn designing and measuring a transceiver as a result of the graduate/doctoral school at the conference and the actual competition will be held at the end of the school on Wednesday. Registration at the school is required. Thrust 2 is dedicated to the development of an efficient power amplifier for the internet of things at 2.45 GHz before the conference. Thrust 3 is meant to develop a rectifying antenna, again prior to the conference. Measurement facilities will be partly provided by National Instruments. Further information can be found at: www.eumweek.com/students/student_competition.html.

Student Challenge

The Student Challenge is a competitive event, where teams of undergraduate, postgraduate and doctoral students are invited to propose an appealing topic or idea presented in poster format, drawn from the challenging field of microwaves and inspired by papers presented at EuMW. The Student Challenge Prize of €1,500 is kindly sponsored by Thales Nederland B.V. For further information visit www.eumweek.com/students/student_challenge.html.

2nd European Microwave Student School

The second European Microwave Student School for bachelor and master students has the topic “Radar Techniques and Technologies”, spanning from fundamentals of Radar technologies and hardware over RF system concepts and signal processing to real world applications and implementations. It will take place from Monday 9th until Wednesday 11th October 2017. It is organised by H. Maune, Technische Universität Darmstadt. The programme features experts from academia and industry and will enable a fundamental understanding of Radar techniques and technologies. The course will be formed by two intensive days of lectures accompanied by a hands-on design experience event on the third day. Students will build a modern digital transceiver and the best concepts will enter the Student Design Competition. There will be a social event together with the Doctoral School programme on Monday evening to get in contact with other students and research fellows from universities. The School is also open to interested PhD students. Registration fee for this event is €40 including coffee breaks and the dinner event on Monday. The European Microwave Student School will offer certificates for ECTS credits. For more information and registration details, please visit www.eumweek.com/students/studentschool.html.

2nd European Microwave Doctoral School

Following the success of the premiere, this year’s European Microwave Week features the second European Microwave Doctoral School. It will take place from Monday 9th until Wednesday 11th October 2017. It is organised by D. Kissinger, IHP GmbH / Technische Universität Berlin and V. Issakov, Infineon Technologies AG. The intention of the Doctoral School is to cover all needs of a PhD student, which go beyond the normal conference programme. Therefore, the school attracted several excellent scientific speakers from all over the world to give presentations. This year’s topic is: RFIC Design Cycle and Emerging Topics. In contrast to typical conference presentations, the talks during the school are longer (50min) and will give an overview on various emerging topics in microwave engineering. Additionally, the school offers talks on soft skills. The programme includes a social event on Monday and a Hands-on Design Experience on Wednesday. The School is dedicated (but not limited) to PhD students in the microwave domain. Registration fee for this event is €80 including coffee breaks and the dinner event on Monday. For registration, please visit www.eumweek.com/students/doctoralschool.html until 12th September 2017. The space is limited, so secure your ticket well in advance.

Career Platform

The Career Platform is a two-day event (October 10th and 11th), co-located with the European Microwave Week. The Career Platform offers prime access to the attendees and is a unique opportunity to highlight the company’s career opportunities and attract highly qualified, young graduates in the areas of high frequency, microwave, millimetre-wave engineering and Radar. The Career Platform initiative aims to foster relationships between young researchers, engineers and the job market. A special session will be held on “Professional opportunities in the European microwave industry”. Further information at: www.eumweek.com/docs/Career_platform.html.
<table>
<thead>
<tr>
<th>Room</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hongkong</td>
<td><strong>Workshop WS-01</strong> Microwave Photonics: An Enabling Technology for 5G?</td>
<td></td>
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<tr>
<td>Kiew</td>
<td><strong>Workshop WS-02</strong> Advances in GaN Device Technology for Millimeter-Wave Applications</td>
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<tr>
<td>Riga</td>
<td><strong>Workshop WS-03</strong> Wireless 100Gbps and Beyond: Progress in Ultra-fast Wireless Communications</td>
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<tr>
<td>St. Petersburg</td>
<td><strong>Workshop WS-04</strong> Equipment and Antennas for Satellite Communication</td>
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<tr>
<td>Krakau</td>
<td><strong>Workshop WS-05</strong> Microwave and THz Devices and Circuits Based on Graphene</td>
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<tr>
<td>Prag</td>
<td><strong>Workshop WS-06</strong> Integration of III-V Nanowire Semiconductors for Next Generation High Performance CMOS SOC Technologies, and Competitive Solutions</td>
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<tr>
<td>Budapest</td>
<td><strong>Workshop WS-07</strong> High-Q RF MEMS Devices and Multiphysical CroShort Course SS-Layer Circuit Design</td>
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<tr>
<td>Istanbul</td>
<td><strong>Workshop WS-08</strong> High Efficiency Power Amplifiers and Smart Transmitters</td>
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<tr>
<td>Oslo</td>
<td><strong>Workshop WS-09</strong> 5G - From Concepts to Circuits</td>
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<tr>
<td>Kopenhagen</td>
<td><strong>Workshop WS-10</strong> Fan-out Wafer Level and 3D Packaging Technologies for RF and mm-Wave Applications: Available Technologies and Applications from Industry</td>
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<tr>
<td>Stockholm</td>
<td><strong>Workshop WS-11</strong> Chipless RFID Systems, Technology and Applications</td>
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<tr>
<td>Seoul</td>
<td><strong>Workshop WS-12</strong> Newest Trends in OTA Performance Testing for Automotive and 5G</td>
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<td></td>
<td><strong>Short Course SS-01</strong> Multibeam Antennas and Beamforming Networks</td>
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<td></td>
<td><strong>Workshop WS-13</strong> Advanced RF and Microwave Circuit Technologies</td>
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<td><strong>Workshop WS-14</strong> Modelling, Identification and Suppression of Parasitic Modes in On-Wafer Measurements</td>
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<td></td>
<td><strong>Workshop WS-15</strong> The Basics of Travelling Wave Tube Amplifiers</td>
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</table>
## Conference Sessions Matrix - Monday

<table>
<thead>
<tr>
<th>Room</th>
<th>08:30-10:10</th>
<th>Coffee Break</th>
<th>10:50-12:30</th>
<th>Lunch</th>
<th>13:50-15:30</th>
<th>Coffee Break</th>
<th>16:10-17:50</th>
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</thead>
<tbody>
<tr>
<td>Kiev</td>
<td></td>
<td>EuMIC01 <strong>MMICs for mm-Wave Subsystems</strong></td>
<td></td>
<td>EuMIC06 <strong>THz Integrated Circuits</strong></td>
<td></td>
<td>EuMIC09 <strong>New Approaches for Broadband GaN Power Amplifiers</strong></td>
<td></td>
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<tr>
<td>Riga</td>
<td></td>
<td>EuMIC02 <strong>RF-Power and Thermal Behaviour of GaN and Silicon Devices</strong></td>
<td></td>
<td>EuMIC07 <strong>Advanced Silicon Devices and Circuits</strong></td>
<td></td>
<td>EuMIC10 <strong>Device and Behavioural Modelling</strong></td>
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<tr>
<td>St. Petersburg</td>
<td></td>
<td>EuMIC03 <strong>Integrated Receivers and Transceivers</strong></td>
<td>TuMIC04 <strong>EuMIC Opening Session</strong></td>
<td>EuMIC08 <strong>Wideband Multifunction Components</strong></td>
<td></td>
<td>EuMIC11 <strong>Oscillators and Synthesizers</strong></td>
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</tr>
<tr>
<td>Foyer St. Petersburg</td>
<td>EuMIC Get Together</td>
<td>EuMIC05 <strong>EuMIC Interactive Session</strong></td>
<td></td>
<td>EuMIC06 <strong>THz Integrated Circuits</strong></td>
<td></td>
<td>EuMIC09 <strong>New Approaches for Broadband GaN Power Amplifiers</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Workshops

- **Workshop WM-01**
  Current and Future Use of Spectrum by PMSE - 4th PMSE Workshop at EuMW

- **Workshop WM-02**
  Electromagnetic Sensors for Life Science Applications

- **Workshop WM-03**
  Far-Field and Near-Field Techniques for Wireless Energy Transfer

- **Workshop WM-04**
  High Power RF- and Microwave Amplifiers and Generators

- **Workshop WM-05**
  Connecting to MMIC at Millimeter-Waves

- **Workshop WM-06**
  THz Electronics Technology for Communications and Sensing

- **Workshop WM-07**
  mm-Wave Antenna Measurement Techniques and Facilities Planning

- **Workshop WM-08**
  Novel Fabrication Technologies for Sub-Millimeter Wave to THz Applications

- **EuMW Student School**

- **EuMW Doctoral School**
<table>
<thead>
<tr>
<th>Room</th>
<th>08:30-10:10</th>
<th>10:50-12:30</th>
<th>Lunch</th>
<th>13:50-15:30</th>
<th>Coffee Break</th>
<th>16:10-17:50</th>
<th>18:30 - 21:30</th>
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<tbody>
<tr>
<td>Hongkong</td>
<td>EuMW MINT 8:00-15:00</td>
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<td></td>
<td>EuMW WiM Reception 16:30-18:00</td>
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<tr>
<td>Sydney</td>
<td>EuMC/EuMIC01</td>
<td>EuMIC14 Foundry Session</td>
<td>EuMC/EuMIC03</td>
<td>Power Amplifier Lineasrization</td>
<td>EuMC08 GaN-Based Power Amplifiers</td>
<td></td>
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<tr>
<td>Seoul</td>
<td>EuMC/EuMIC02</td>
<td>EuMC/EuMIC04 Interconnects and Packaging</td>
<td></td>
<td></td>
<td></td>
<td>Welcome Reception</td>
<td></td>
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<tr>
<td>Riga</td>
<td>EuMC12 Device Characterisation</td>
<td>EuMC/EuMIC05 Reconfigurable and Tuneable RF and Microwave Circuits</td>
<td>EuMC15 EuMIC Closing Session</td>
<td>EuMC09 Integrated Antennas - Technology and Design</td>
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<tr>
<td>Kiew</td>
<td>EuMC13 Highly Integrated mm-Wave Transceivers</td>
<td>EuMC04 Integrated Antennas - Circuit and Feed Design</td>
<td>EuMC10 Novel Technologies for Passive Components</td>
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# Conference Sessions Matrix - Wednesday

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<tr>
<th>Room</th>
<th>08:30-10:10</th>
<th>10:50-12:30</th>
<th>13:50-15:30</th>
<th>16:10-17:50</th>
<th>17:50-18:00</th>
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</thead>
<tbody>
<tr>
<td>Hongkong</td>
<td>EuMC14 Antennas for mm-Wave Applications</td>
<td>EuMC/EuRAD01 Antenna Systems - Industrial Perspectives</td>
<td>EuMC/EuRAD03 Focused Session: Conformal Antennas and Arrays</td>
<td>EuMC/EuRAD04 Beam Steering Antennas and Technologies</td>
<td></td>
</tr>
<tr>
<td>Kiew</td>
<td>EuMC15 Impedance Matching Solutions for GaN Power Amplifiers</td>
<td>EuMC22 High-Efficiency Power Amplifiers</td>
<td>EuMC28 Amplifiers and Receivers</td>
<td>EuMC35 Advanced Oscillator Design</td>
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<tr>
<td>Riga</td>
<td>EuMC16 Special Session: Novel Microwave Devices and Measurements in Central Europe</td>
<td>EuMC23 Focused Session: Advanced Microwave Materials</td>
<td>EuMC29 Metasurfaces and Frequency-Selective Surfaces</td>
<td>EuMC36 Metamaterials, Periodic Structures, and Applications</td>
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</tr>
<tr>
<td>St. Petersburg</td>
<td>EuRAD01 EuRAD Opening Session</td>
<td>The Defence &amp; Security Forum</td>
<td>Def &amp; Sec</td>
<td>Cocktail Reception</td>
<td></td>
</tr>
<tr>
<td>Prague</td>
<td>EuMC17 RF MEMS and Sensors</td>
<td>EuMC24 Additive Manufacturing Techniques for RF Applications</td>
<td>EuMC30 Sub-THz Components and Electro-Optic Systems</td>
<td>EuMC37 Special Session: Microwave Research in Asia Pacific</td>
<td></td>
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<tr>
<td>Istanbul</td>
<td>EuMC18 Design Techniques and Implementations of Planar Couplers</td>
<td>EuMC25 Advanced Waveguide Structures</td>
<td>EuMC31 Novel Synthesis and Design Techniques for Microwave Filters</td>
<td>EuMC38 Substrate-Integrated Waveguide Filters and Diplexers</td>
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<tr>
<td>Oslo</td>
<td>Short Course SW-01 Modulation Schemes and Interference of Automotive Radars</td>
<td>Workshop WW-01 Technologies and Circuits for Advanced Automotive Radar and Related Applications</td>
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<tr>
<td>Kopenhagen</td>
<td>EuMC19 Special Session: Stochastic Electromagnetics</td>
<td>EuMC26 Special Session: Microwave Research in Latin America</td>
<td>EuRAD02 Synthetic Aperture Radar</td>
<td>EuRAD03 Radar Remote Sensing</td>
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<td>Seoul</td>
<td>EuMC20 Wireless Communication Channels</td>
<td>EuMC/EuRAD02 Microwave Systems</td>
<td>EuMC32 Advances in Measurements</td>
<td>EuMC39 On-Wafer Device Characterisation</td>
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<tr>
<td>Shanghai</td>
<td>Student/Doctoral School Hands-on Experience</td>
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<tr>
<td>Singapore</td>
<td>EuMC27 Components and Techniques for Microwave Vacuum Electronics</td>
<td>EuMC33 Focused Session: Microwave Vacuum Electronics</td>
<td>EuMC40 High-Power Microwave and mm-Wave Sources</td>
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<tr>
<td>Exhibition Hall</td>
<td>EuMC21 EuMC Interactive Session 1</td>
<td>EuMC34 EuMC Interactive Session 2</td>
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<tr>
<td>Room</td>
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<tr>
<td>Hong Kong</td>
<td>EuMC/EuRAD05 Advanced Radar Technologies and Systems</td>
<td>EuMC/EuRAD08 Modelling and Synthesis of Array Antennas</td>
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<td>Kiew</td>
<td>EuMC/EuRAD06 Polarisation Diversity and Measurements</td>
<td>EuMC/EuRAD09 Radar Signal Sources</td>
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<td>Riga</td>
<td>EuMC41 Medical Microwave Applications</td>
<td>EuMC45 Biomedical Sensing and Dielectric Characterisation</td>
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<td>St. Petersburg</td>
<td>EuRAD04 Automotive Radar 1</td>
<td>EuRAD06 Automotive Radar 2</td>
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<td>Prag</td>
<td>EuMC42 Numerical Modelling of Guided-Wave Structures</td>
<td>EuMC46 Numerical Modelling of Radiating Structures</td>
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<td>Instanbul</td>
<td>EuMC43 Advanced Dielectric Resonator Filters</td>
<td>EuMC47 Compact and Advanced Implementations of Waveguide Filters</td>
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<td>Oslo</td>
<td>EuMC44 Dielectric Material Characterisation</td>
<td>EuMC48 Wireless Technologies</td>
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<td>Copenhagen</td>
<td>EuRAD05 Localisation and Tracking</td>
<td>EuRAD07 MIMO Radars and Waveforms</td>
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<td>Tokio</td>
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<td>Shanghai</td>
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<td>Singapur</td>
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<td>Exhibition Hall</td>
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<td>Room</td>
<td>08:30-10:10</td>
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<tr>
<td>Kiew</td>
<td>EuRAD11 Remote Sensing and Surveillance</td>
<td>EuRAD14 Short-Range Radar Applications</td>
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<td>Riga</td>
<td>EuRAD12 Radar Applications 1</td>
<td>EuRAD15 Radar Applications 2</td>
<td>Workshop WF-01 Present and Future Perspectives of Passive Radar</td>
<td>EuRAD16 EuRAD Closing Session</td>
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<tr>
<td>St. Petersburg</td>
<td>Workshop WF-02 Wearable Antennas and Smart Textiles</td>
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<td>Lunch EuRAD</td>
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<td>Short Course SF-01 Synthetic Aperture Radar (SAR)</td>
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<td>Budapest</td>
<td>Workshop WF-03 Highly Integrated mm-Wave Systems for Emerging Industrial and Consumer Radar-Based Applications</td>
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<td>Instanbul</td>
<td>Workshop WF-04 Active Electronically Scanned Array (AESA) Systems – Status and Trends</td>
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<td>Workshop WF-05 The Internet of Space, a New Satellite Communication Technique</td>
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<td>Short Course SF-02 Radar Based Detection of Drones</td>
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<td>Stockholm</td>
<td>Workshop WF-06 Sub-Millimetre Wave and THz Imaging for Security</td>
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<td>Seoul</td>
<td>Workshop WF-07 Future Automotive Radar Systems</td>
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<td>Workshop WF-08 Automotive Radar Measurement Solutions - For End-of-Line Purposes as well as in After-sales</td>
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<td>Short Course SF-03 Noise Radar Technology</td>
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<tr>
<td>Conference Centre</td>
<td>EuRAD13 EuRAD Interactive Session</td>
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</table>
| Date                | Room        | 09:30 - 12:45
|-------------------|------------|----------------------
| Krakau            |            | Rohde & Schwarz Tutorial Seminars |
| Helsinki          |            | 09:30 - 17:30 Keysight Technologies Workshops |
| Budapest          |            | 09:30 - 12:15 Rohde & Schwarz Tutorial Seminars |
| Krakau            |            | 10:00 – 15:00 National Instruments Workshops |
| Helsinki          |            | 09:30 - 17:30 Keysight Technologies Workshops |
| Budapest          |            | 09:30 - 13:15 Rohde & Schwarz Tutorial Seminars |
| Krakau            |            | 10:00 – 13:00 National Instruments Workshops |
| Exhibition Hall Room |        | 9:30 - 13:00 IHP Workshops |
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- Future events
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  2019 - Paris
  2020 - Utrecht
  2021 - Rome

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For more information and contact, visit: www.eumwa.org

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Chengdu Sampling Master Electronic Technology Co., Ltd
DIFEREX - DELTA OHM
DOWA HD Europe GmbH
DOWA Holdings Co., Ltd
Dow-Key Microwave
eVi
EIN ELEKTRONIK GMBH & CO. KG
ECHO Microwave
Ed Fagan Europe Ltd
EGIDE SA
Elit B Systems BV and SIGINT-Elia
Electro Rent Europe
Electronic Specifier Ltd.
Electronics World
Elektronik-Praxis
ELVA-1 Ltd.
enm Service GmbH (Germany)
E-REON B.V.
ERDA Technologies SL
ESA, VSC and UPV (European Space Agency-Valencia Space Consortium - Universidad Politécnica de Valencia)
European Space Agency - RF Equipment Technology
Everything RF
Exelis
Ferritec Broadband Limited
Flann Microwave Ltd.
Focus Microwaves Inc
Formfactor
Fraunhofer IFFR
Frederick Technologies Inc.
Futuro Microwave Technology Co., Ltd.
Gigavox AB
Gebrotron Communication GmbH
Giga-tronics Incorporated
Globes Elektronik GmbH & Co KG
H&K-Praxis
High Frequency Electronics
Hi-Rel Group LLC
HUBER + SUHNER
Hyten
iBROW
IEEE Microwave Magazine
IEEE-MTT Int’l Microwave Symposium
IHP GmbH
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Inmerton Inc.
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IW Microwave Products Division
Jet Metal Technologies
KUL Microwave
Kaytecht Technologies
Knowlex
Kuhne Electronic GmbH
Kyocera Fineceramics GmbH
Lake Shore Cryotronics Inc.
Low Noise Factory
LPKF Laser & Electronics AG
MACOM
Magic Xit Ltd
Maury Microwave Corp.
MCG-UPRA(Microwave Components Group-
Public University of Navarre)
MEY Elektronik Service GmbH
Microm GmbH
Micro Systems Engineering GmbH
Microwave Applications Group
Microwave Engineering Europe
Microwave Innovation Group (MiG)
Microwave Journal
Microwave Product Digest
Microwave Products Group
Microwaves & RF
Mitsubishi Electric Europe BV
MMBKO-Mikrowellen Und Hochfrequenz
Vertriebs GmbH
Molex LLC.
MOISS
MPI Corporation
MRG Gigacomp GmbH & Co. KG
Murcon GmbH
Nanowave Technologies Inc.
National Instruments
Nesaro LTD
NXP Semiconductors
OMMIC
Optemni Ltd.
Optprint AG
Pasquali Microwave Systems Sr
Passive Plus Inc.
Pickinger Interfaces Ltd.
Planar Monolithic Industries, Inc.
Plexa Manufacturing
Pole/Zero
Premix Oy
Pro Nova Elektronik GmbH
Radar Systems Technology Inc.
Radiall GmbH
Remcom Inc.
RF Microtech sr
RFMW Europe Ltd.
RIGIL Technologies Eu GmbH
Rogers Corp.
Rohde & Schwarz
Rosenberger Hochfrequenztechnik GmbH & Co. KG
SAGE Millimeter, Inc.
Schmid & Partner Engineering AG
Schott AG
SDP Telecom
SEMIC RF Electronic GmbH
Shanghai Focusimple Electronic Componenets Co., Ltd
Shenzen Huaying Technology Development Co. Ltd.
Silicon Radar GmbH
Sonnet Software Inc.
Southwest Microwave Inc.
SpaceForest
Specialist Microwave Solutions Ltd.
Spectrum Elektrotechnik GmbH
Spirner GmbH
STAGEM
Sumitomo Electric Device Innovations
Sumitomo Electric Europe Ltd.
Sungas Electronics & Communications Co., Ltd
Taconic
Tech-Inter
Technowave
Teledyne Microwave Solutions
Teledyne Relays
Teledyne Storm Microwave
Telemeter Electronic GmbH
Teledyne Microwave Solutions
Techniwave
Tech-Inter
Technowave
Teledyne Microwave Solutions
Teledyne Relays
Teledyne Storm Microwave
Telemeter Electronic GmbH
Teledyne Microwave Solutions
Techniwave
Tech-Inter
Technowave
Teledyne Microwave Solutions
Teledyne Relays
Teledyne Storm Microwave
Telemeter Electronic GmbH
Teledyne Microwave Solutions
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Tech-Inter
Technowave
Teledyne Microwave Solutions
Teledyne Relays
Teledyne Storm Microwave
Telemeter Electronic GmbH
Teledyne Microwave Solutions
 ethernetRF
UniqueSec AB
United Monolithic Semiconductors SAS
Varioprint AG
Varus Technology
Vactrowave
VA electronic GmbH
Waveshaping Technologies
WIN Semiconductors Corp.
WPL-D doo
Wolfspeed, A Cree Company
Wurth Elektronik eSos GmbH & Co. KG
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