



# U.R.S.I Member Committee Federal Republic of Germany

**President: Prof. Dr.-Ing. Wolfgang Mathis**  
Institut für Theoretische Elektrotechnik  
Leibniz Universität Hannover

**Vice-President: Dr.-Ing. Larissa Vietzorreck**  
Institut für Hochfrequenztechnik  
Technische Universität München





International Union of Radio Science  
U.R.S.I. Landesausschuss in der Bundesrepublik Deutschland e.V.

| Copernicus.org | URSI.org |

| Contact |

Startseite/Home

Kontaktadressen/Contacts

Mitgliedschaft/Membership

Mitteilungen/Announcements

Tagungen/Conferences

Publikationen/Publications

### U.R.S.I. Landesausschuss in der Bundesrepublik Deutschland e.V.

**Vorsitzender/President: Wolfgang Mathis**  
**Geschäftsführer/Managing Director: Eckard Bogenfeld**

#### Zweck der Gesellschaft/Purpose of the Organisation

Als ein "Member Committee" der Union Radio Scientifique Internationale (U.R.S.I.) sieht der Verein seine Aufgabe darin, im internationalen Rahmen Studien auf dem Gebiet der Radiowissenschaften, der Telekommunikation und der elektronischen Wissenschaften anzuregen und zu koordinieren. Im Einklang mit den Aufgabenstellungen der U.R.S.I. werden diese Ziele hauptsächlich durch wissenschaftliche Veranstaltungen und Publikationen, Forschungs- und Lehrtätigkeiten und Förderungsmaßnahmen mit der besonderen Betonung der internationalen Zusammenarbeit erreicht.

**founded 1954**

**Supported by Deutsche Forschungsgemeinschaft**

**National Member Committee: 10 commissions**

**Organisation: Copernicus-Gesellschaft**

*Union Radio-Scientifique Internationale*

*International Union of Radio Science*





## Goals:

- **Platform to support joint research of physicists and electrical engineers in the area of electromagnetic fields**
- **Special mission:** support of interdisciplinary collaboration of young scientists in Germany (U.R.S.I. Young Scientist Award)
- **National Forum:** Kleinheubacher Tagung in Miltenberg  
(annual 3-day symposium in September/October)
  - Sessions by commissions, joint sessions, invited sessions
  - Invited plenary talks
  - Commission meetings
  - Meeting of commission chairs
  - Member meeting of U.R.S.I. Deutschland
- **Co-operation** with organisations and other national committees (NC's)
  - national: VDE/ITG, IEEE, DPG, . . .
  - international: neighboured national committees





## Publication: Open Access Journal “Advances of Radio Sciences”

### Advances in Radio Science (ARS)



Advances in Radio Science (ARS) is an international, interdisciplinary journal for fast publication of collections of short, but self-contained as well as of individual refereed communications in radio science and engineering, published in separate volumes online with the option of a publication on paper (print-on-demand). The collections may include papers presented at scientific meetings (proceedings) or articles on a well defined topic compiled by individual editors or organizations (special publications).

▣ [Homepage](#) ▣ [Online Library ARS](#) ▣

▣ [Editorial Board](#) ▣ [Subscription](#) ▣





## Member committee and commissions:

### Vorstand/Council

#### **Wolfgang Mathis (Vorsitzender/President)**

Leibniz Universität Hannover, Institut für Theoretische Elektrotechnik  
Appelstr. 9 A  
30167 Hannover  
Germany

Phone +49-(0)511-7623201  
Fax +49-(0)511-7623204  
mathis@tet.uni-hannover.de

#### **Eckard Bogenfeld (Geschäftsführer/Managing Director)**

Deutsche Telekom AG, Laboratories  
Deutsche-Telekom-Allee 7  
64295 Darmstadt  
Germany

Phone +49-(0)6151-5835834  
Fax +49-(0)521 9210-9729  
eckard.bogenfeld@telekom.de

### Kommissionsvorsitzende/Commission Presidents

#### **Thorsten Schrader (A: Electromagnetic Metrology)**

Physikalisch-Technische Bundesanstalt  
Bundesallee 100  
38116 Braunschweig  
Germany

Phone +49-(0)531-5922200  
Fax +49-(0)531-5922205  
thorsten.schrader@ptb.de

#### **Rolf Schuhmann (B: Fields and Waves)**

TU Berlin, Fachgebiet Theoretische Elektrotechnik  
Germany





**Jens Anders (C: Radio Communication Systems and Signal Processing)**

Universität Ulm, Institut für Mikroelektronik  
Germany

**Dirk Killat (D: Electronics and Photonics)**

BTU Cottbus-Senftenberg, Elektronik und Informationstechnologie, Chair  
Microelectronics  
Germany

**Frank Gronwald (E: Electromagnetic Environment and Interference)**

TuTech Innovation GmbH, Projekt 150-001  
Harburger Schloss Str. 6-12  
21079 Hamburg  
Germany

Phone +49-(0)40-42878-2177  
Fax +49-(0)40-42878-2385  
gronwald@tu-harburg.de

**Madhu Chandra (F: Wave Propagation and Remote Sensing)**

TU Chemnitz, Hochfrequenztechnik und Theoretische Elektrotechnik  
Reichenhainer Strasse 70  
09126 Chemnitz  
Germany

Phone +49-(0)371-531-24340  
Fax +49-(0)371-531-24349  
madhu.chandra@infotech.tu-chemnitz.de





**Matthias Förster (G: Ionospheric Radio and Propagation)**

GFZ German Research Centre for Geosciences, Helmholtz Centre  
Potsdam, Section 2.3 (Earth's Magnetic Field)  
Telegrafenberg  
14473 Potsdam  
Germany

Phone +49-(0)331-288-1776  
Fax +49-(0)331-288-1235  
mfo@gfz-potsdam.de

**Gottfried Mann (H: Waves in Plasmas)**

Leibniz-Institut für Astrophysik Potsdam, Solare Radiophysik  
An der Sternwarte 16  
14482 Potsdam  
Germany

Phone +49-(0)331-7499-292  
Fax +49-(0)331-7499-352  
gmann@aip.de

**Alexander Kraus (J: Radio Astronomy)**

Max-Planck-Institut für Radioastronomie, Radioobservatorium Effelsberg  
Max-Planck-Str. 28  
53902 Bad Münstereifel-Effelsberg  
Germany

Phone +49-(0)2257-301-120  
Fax +49-(0)2257-301-105  
akraus@mpifr-bonn.mpg.de

**Lars Ole Fichte (K: Electromagnetics in Biology and Medicine)**

Helmut-Schmidt Universität, Theoretische Elektrotechnik  
Hilstenhofweg 85  
22034 Hamburg  
Germany

Phone +49-(0)40-6541-2460  
Fax +49-(0)40-6541-3766  
lo.fichte@hsu-hh.de





### Commission A:

- **Topics:** Development of measurement systems, calibration, radar systems, antennas, UAV measurements, interference with wind energy plant.....
- Memberships in various national/international standardization committees (CEN, OIML, DIN, IEEE, EURAMET, CCTF.....)

### Commission B:

- **Topics:** Electromagnetic Field Simulation (Finite Elements, Finite Integration, Integral Equations, Method of Lines, asymptotic methods, hybrids, algorithms and formulations, local and global modelling, gauging, stability of formulations, algebraic solvers, model order reduction, uncertainty quantification, high-performance computing, coupled simulations (thermal, motion, and others), analytical methods)  
Applications / Component and system design (antennas and radar for automotive, sensors, navigation systems, aviation, microwave components, MEMS, bio-electromagnetism, material modelling, metamaterials, linear optics, plasmaphysics, EMC, low-frequency applications)
- Regular participation/organisation at EMTS (next 2016), ICEAA







### Commission C:

- **Topics:** Communications engineering, RF-ID technologie, Coding theory, Efficient hardware implementation of codes, Cognitive Radio, Modeling of nonlinear circuits and systems , Electromagnetic interference modeling, Sensor systems
- Memorial session for Alfred Fettweis at KHB 2016

### Commission D:

- **Topics:** Analog circuits and signal processing, less on optics and opto-electronics. (bio-medical sensors, implantable electronics, neural interfaces, power supply, energy management and energy harvesting in mobile electronics, medical applications and autonomous sensors, ultra-low power A/D conversion for medical and autonomous sensors, high speed continuous time delta sigma modulators)
- Regular participation/organisation at ISSCC, ISCAS or ESSCIRC, ....
- Organisation of annual Analogue workshop at German universities





### Commission E:

- **Topics:** Field theoretical methods in EMC, High Power Electromagnetics, EMC in Automotive
- Vice-Chair of international commission, participation/organisation at AT-RASC and AP-RASC 2016

### Commission F:

- **Topics:** Multiparameter Radar and Radiometer Remote Sensing, Tropospheric Propagation, mm-wave propagation, Driver Assistant Systems, Multiparameters Sensor fusion
- Special Sessions planned: URSI GASS 2016 (Tropospheric Propagation), GEMIC 2016 (Multiparameter radars)
- Joint efforts with French commission-F (Prof. Tullio Tanzi) on RSB Publications, Scientific cooperation with Prof. Erich Leitgeb, URSI Austria





### Commission G:

- **Topics:** Middle atmosphere studies (wind, temperatures, polar mesospheric summer echos (PMSE), using radars (e.g., Andoya), VHF, and LF radio waves), Near-Earth satellite missions (e.g. Swarm), upper atmosphere, external magnetic field variations, M-I-T coupling, Space Weather science, Total electron content (TEC) studies, using GNSS, GPS
- Members mainly from 5 institutions: Max Planck Institute for Solar System Research (Göttingen), Institute for Atmospheric Physics (Uni Rostock, Kühlungsborn), DLR Institute of Communications and Navigation (Oberpfaffenhofen-Wessling bzw. Neustrelitz), Geophysical Observatory Collm (University Leipzig), GFZ German Research Centre for Geosciences (Helmholtz Centre Potsdam)

### Commission H:

- **Topics:** Elektronenbeschleunigung an Stosswellen in der Sonnenkorona und deren Radiosignatur, Radioemission an Planeten
- Strong collaboration with IWF and University in Graz





### Commission J:

- **Topics:** Galactic and Extragalactic Radio Astronomy and technical developments in Radio Astronomy, (investigation of pulsars, observations of the neutral hydrogen distribution in our Galaxy, study of the origin and evolution of magnetic fields in the Milky Way, VLBI observations for the investigation of the physics of black holes and jets in Active Galactic Nuclei, improvement of calibration procedures in total power and polarization, support during the development and the commissioning of radio astronomical receivers and backends)
- Participation in large projects: 100-m radio telescope at Bad Münstereifel-Effelsberg, LOFAR telescope project, Square Kilometre Array (SKA), "MeerKat" telescope, Russian satellite telescope RadioAstron

### Commission K:

- **Topics:** Influence of RF on cells of blood generating system, ....
- Special session planned for KHB 2016, participation welcome....





Annual meeting:

# Kleinheubacher Tagung 2016

Miltenberg, 26.-28. September 2016



- small city in center of Germany (no „escape“)
- networking in “well-known” restaurants
- important for young scientists at beginning of career (contacts to colleagues and senior scientists)





# Kleinheubacher Tagung

## Scientific dates:

- CfP usually published in April
- 500 word abstract
- Submission deadline in July
- 3-day meeting last week of September/beginning of October
- Max. 2 parallel tracks
- Talks in German or English
- Full paper in Advances of Radio Science possible for accepted papers (publication in the following year)



## Young Scientist Award

- Organized by Madhu Chandra
- Submission of full paper necessary
- Dedicated session with 6 finalists (longer time for questions)
- Two Prizes „Young Scientist Award of Excellence“ (1.200,- €)
- 4 „Certificates of Merit“ (500,- €)





On Tuesday traditional boat trip on the river Main





... with evenings in the „Riesen“

**Gasthaus  
Zum Riesen**

Ältestes Gasthaus Deutschlands

[Home](#) [Bierspezialitäten](#) [Speisekarte](#) [Gruppenangebote](#) [Aktuelles](#) [Galerie](#) [Geschichte](#) & mehr [Gästebuch](#) [Links](#) [Kontakt](#)

## Gasthaus »Zum Riesen«

Genießen Sie ursprüngliche fränkische Gastlichkeit in unserem Gasthaus, in welchem seit dem 12. Jahrhundert schon unzählige gekrönte Häupter Gast waren. 1711 weilte hier Kaiser Karl VI - morgen vielleicht Sie!

Im Frühjahr 2001 fand nach einer grundlegenden Renovierung der Innenräume durch das Brauhaus Faust zu Miltenberg die Neueröffnung des Gasthauses »Zum Riesen« statt. Das Brauhaus Faust führt seitdem auch die Geschäfte des »Riesen«.

Heute befindet sich hier wieder ein traditionelles Wirtshaus in dem sich Miltenberger und Gäste gleich welchen Alters und welcher Profession wohlfühlen. Traditionell und gleichzeitig einmalig!

Wir freuen uns auf Ihren Besuch.

Ihre Wirtsleut







## The next meetings Kleinheubacher Tagung in Miltenberg

**KH 2016:** 26. – 28. September 2016

**Scientific chair:**

Prof. Dr. Ralph Urbansky, Dr. Wolfgang Sauer-Greff  
(TU Kaiserslautern)

(Kommission C)

**KH 2017:** 25. – 27. September 2017

**Scientific chair:**

Prof. Dr. Romanus Dyczij-Edlinger (Uni Saarland)

(Kommission B)

