



AP-RASC'10



First Call for Papers

2010 Asia-Pacific Radio Science Conference

Toyama International Conference Center

Toyama, Japan

September 22-26, 2010

GENERAL INFORMATION

The "2010 Asia-Pacific Radio Science Conference" (AP-RASC'10) will be held at Toyama International Conference Center, Toyama, Japan on September 22-26, 2010.

The AP-RASC is the Asia-Pacific regional URSI conference held between the URSI General Assemblies. The objective of the AP-RASC is to review current research trends, present new discoveries, and make plans for future research and special projects in all areas of radio science, especially where international cooperation is desirable, and a particular emphasis is placed on promoting various research activities in the Asia-Pacific area.

Scientific sessions composed of oral and poster papers will be organized at this conference in order to cover all scientific activities by URSI Commissions A-K:

- Electromagnetic metrology
- Fields and waves, electromagnetic theory and applications
- Radiocommunication systems and signal processing
- Electronics and photonics
- Electromagnetic environment and interference
- Wave propagation and remote sensing
- Ionospheric radio and propagation
- Waves in plasmas
- Radio astronomy
- Electromagnetics in biology and medicine

SPONSORSHIPS

This Conference is sponsored by:

International Union of Radio Science (URSI)
The Institute of Electronics, Information and
Communication Engineers (IEICE)

In cooperation with:

Science Council of Japan
The Institute of Electrical Engineers of Japan (IEEJ)
Toyama Prefecture
Toyama City
Toyama Prefectural University
Toyama University

LOCATION

Toyama Prefecture is located roughly equidistant from the three metropolitan centers of Japan: Tokyo, Osaka, and Nagoya. In addition to domestic flights to Tokyo and Sapporo, international service is also provided to major cities in the Sea of Japan region such as Seoul, Vladivostok, Dalian, and Shanghai.

URL: <http://www.pref.toyama.jp/english/>

Venue

Toyama International Conference Center
1-2 Ohtemachi, Toyama 930-0084, Japan
Phone: +81-76-424-5931 / Fax: +81-76-493-7170

URL: <http://www.ticc.co.jp/english/>

YOUNG SCIENTIST PROGRAMS

As in the URSI General Assemblies, the following two programs are planned for young scientists:

- Student Paper Competition (SPC)
- Young Scientist Award (YSA)

Details will be announced later.

PRELIMINARY CONFERENCE SCHEDULE

September

- 22 (Wed): Registration, SPC Session, Welcome Reception
- 23 (Thu): Opening Ceremony, Oral Sessions, SPC Reception
- 24 (Fri): General Lecture 1, Oral Sessions, Banquet
- 25 (Sat): General Lecture 2, Oral Sessions, Poster Sessions, YSA Reception
- 26 (Sun): Oral Sessions

IMPORTANT DATES

Abstract Submission Deadline: March 31, 2010

Acceptance Notification: May 31, 2010

All authors of both invited and contributed papers are requested to submit one-page abstracts in an electronic form via the conference website. Details of paper submission will be posted at the following web page when available:

<http://www.ap-rasc10.jp/>

REGISTRATION FEES

	Regular	Student
May 31-July 15, 2010	¥42,000	¥20,000
July 16-September 3, 2010	¥47,000	¥25,000
September 22-26, 2010	¥52,000	¥30,000

TECHNICAL SESSIONS

Papers will be presented either in oral sessions or in poster sessions. Most sessions consist of a combination of invited and contributed papers. For accepted papers, a final decision on the style of presentation (oral, poster) will be made by Session Conveners and the Program Committee. Suggested topics are listed below.

Commission A: Electromagnetic Metrology

- A1: Calibration and dissemination in electromagnetic metrology (ATF2010 joint session)
- A2: Microwave frequency standards (ATF2010 joint session)
- A3: Optical frequency standards (ATF2010 joint session)
- AB: Electromagnetic measurement and standards
- AD: Optical frequency measurement (ATF2010 joint session)
- AFG: Time and frequency transfer (ATF2010 joint session)

Commission B: Fields and Waves

- B1: Electromagnetic theory
- B2: Guided waves
- B3: Intelligent antennas
- B4: Media effects in electromagnetics
- B5: Scattering and diffraction
- BCK: Body area networks
- BEFK: Computational techniques and EM field simulator

Commission C: Signals and Systems

- CBDEFK1: Radio technology for social safety and security
- CBDEFK2: Standardization activities in radio science
- CBDF: Green radio technologies
- CBDFK: Novel radio communication systems
- CBF1: Cognitive and software defined radio systems
- CBF2: Radio signal processing toward Shannon limits
- CBH: Wireless power transmission from space
- CD: Theoretical analysis and synthesis of analog RF circuits

Commission D: Electronics and Photonics

- D1: Advanced electronic devices and circuits for ubiquitous wireless
- D2: Trends in electronic/photonics devices and circuits
- DC1: Meta-materials and their applications
- DC2: Microwave photonics technology
- DC3: Terahertz-wave technology

Commission E: Electromagnetic Noise and Interference

- E1: EMC problems in PLC
- E2: EMC problems in printed circuit boards

- E3: Lightning and discharge in EMC
- E4: Shielding, grounding, and absorber design
- EA: Measurement techniques including EMC compliance
- EC: EMC problems in wire and wireless communication systems

Commission F: Wave Propagation and Remote Sensing

- F1: Remote sensing of subsurface objects and landmine detection
- F2: Remote sensing of the earth and planetary atmosphere
- F3: Remote sensing of the earth and planetary surfaces (including earthquake detection and prediction)
- F4: Satellite and terrestrial propagation
- FB: Millimeter, sub-millimeter, and terahertz propagation
- FBC1: MIMO channel sounding and modeling
- FBC2: Mobile propagation

Commission G: Ionospheric Radio and Propagation

- GEH1: Electromagnetic phenomena related with earthquake and volcanic activities
- GEH2: Lightning and lightning effects on atmosphere, ionosphere and plasmasphere
- GFH1: Coupling of solar wind, magnetosphere, ionosphere and atmosphere
- GFH2: Ionospheric irregularities and disturbances and their effects on radio applications

Commission H: Waves in Plasmas

- HBCG: New instrumentation and observation techniques for space and planetary sciences
- HFG: Data assimilation and modeling of ionosphere, plasmasphere and magnetosphere
- HG1: Advanced theory and computer simulations in space plasmas
- HG2: Wave propagation and wave-particle interactions in solar-terrestrial and planetary environment

Commission J: Radio Astronomy

- J1: Large telescope in East Asia and possible array connection
- J2: Millimeter- and sub-millimeter-wave telescope and array
- J3: Radio astronomy in space and on the moon
- JAD: Optical fiber connection of radio telescopes
- JCD: Ultra wideband receiver and the applications
- JE: Radio frequency interference

Commission K: Electromagnetics in Biology and Medicine

- K1: Biological effects (DC, ELF)
- K2: Biological effects (RF)
- K3: Biomedical application of EM energy
- KAE: Assessment of human exposure to EMF
- KB1: Bioimaging
- KB2: EM theory for biomedical application
- KBC: Numerical dosimetry for wireless communications
- KE: Electromagnetic interference with medical equipment

Union Session:

- U: Radio science activities in Asia-Pacific area

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