



Welcome

URSI Newsletter 2024/Q2 is our 3rd newsletter and we are gradually getting into a tradition and we will try to publish a newsletter every quarter. This issue is somewhat later than planned, due to the organization of AT-RASC 2024 in which we at the secretariat were heavily involved.

Again the newsletter contains information on our Flagship meetings, conferences and activities of our Scientific Commissions as well as our Member Committees. If you have anything to report, you can always inform the secretariat and we will try to include it.

The URSI Newsletter is now, next to our social media channels, a channel to provide you, with information from the Board, from the Secretariat and from the URSI community. If you would like to get material to be included, or if you wish us to provide you more information on specific topics, please feel free to contact us at the secretariat or send your comments to info@ursi.org.

URSI Flagship Meetings

4th URSI Atlantic Radio Science Conference (URSI AT-RASC)

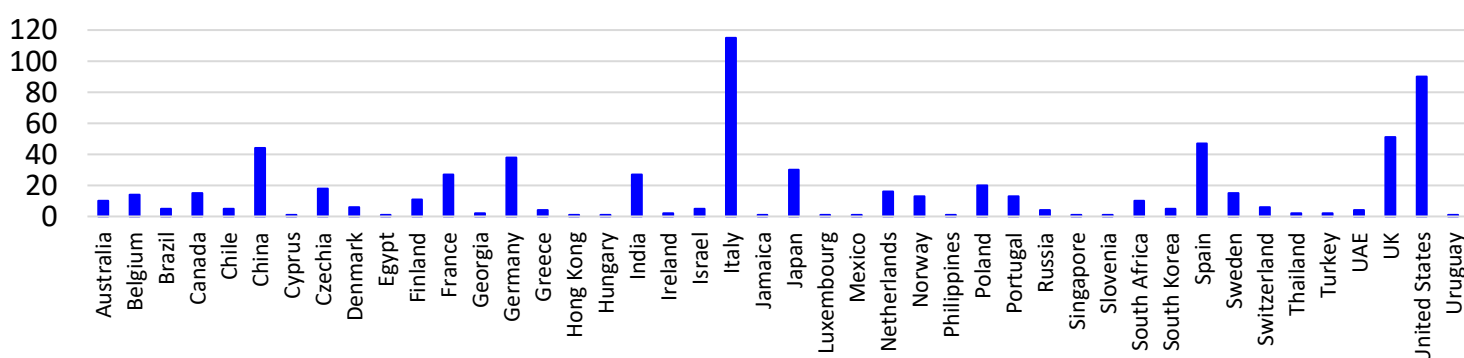
18 - 25 May 2024 ExpoMeloneras Convention Centre, Gran Canaria

AT-RASC 2024 was a record-breaking edition! With 902 papers submitted and 687 attendees from 44 countries, on site, this was the largest edition of AT-RASC ever, even larger than the combined AT-AP-RASC in 2022.

We are very thankful to all of you for your contributions and participation.



AT-RASC 2024 Registrations





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URSI Newsletter – 2024/Q2

URSI Flagship meetings are bringing together presentations and activities from all ten URSI Commissions and therefore provide a unique forum at which radio scientists can meet and interact with their colleagues from different sub fields of radio science. The URSI Flagship meetings are the annual opportunity to meet and network! As organizers we try to offer a perfect platform through the organization of social events as part of the programme.

At the AT-RASC 2024 opening session we were honoured by the participation of Mr. Antonio Morales Méndez, President of the Cabildo de Gran Canaria addressing the participants on Monday 20 August in the ExpoMelonares. You can download the transcription in Spanish and English from the AT-RASC website (<https://www.atrasc.com/home.php>)



On Tuesday 21 May, 50 Young Scientists received their Award at the occasion of the Young Scientist Party in a nice, sunny setting accompanied with a typical buffet (photo above).

The National Institute of Aerospace Technology (INTA) operates a site in Gran Canaria (the Estación Espacial de Maspalomas) which is close to the conference venue. INTA hosted a site visit for 30 AT-RASC 2024 participants and provided a very detailed overview of the facilities and operations.

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URSI AP-RASC 2025

AP-RASC 2025 will be organised from 17 till 22 August 2025, in Sydney, Australia, bringing this Flagship meeting for the 1st time to this part of the world. Our colleagues at the Australian URSI Committee are very eager to make this event into a success and are now in full preparation. The Call for Papers is now out and the [website](#) will be updated with extra information in the next few weeks.

The following key dates are:

- Paper submission opens: 5 November, 2024
- Paper submission deadline: 20 February, 2025
- Notification of acceptance: 15 April, 2025



2025 Asia-Pacific Radio Science Conference of the International Union of Radio Science

August 17 – 22, 2025, Sydney, Australia
International Convention Centre, Sydney

Preliminary Call for Papers

The 2025 URSI Asia-Pacific Radio Science Conference (URSI AP-RASC 2025) is sponsored by the International Union of Radio Science (URSI), and will be held in Sydney, Australia on August 17 – 22, 2025. This triennial conference is one of the three URSI Flagship Conferences that include the URSI General Assembly and Scientific Symposium (URSI GASS) and the URSI Atlantic Radio Science Conference (URSI AT-RASC).

The scientific program will have a series of open and convened sessions covering the areas of URSI Commissions A to K, comprising oral/poster sessions with invited and contributed papers and General Lectures. In addition, there will be workshops, short courses, young scientist programs including the Young Scientist Award and the Student Paper Competition, an accompanying persons' program, and an exhibition.

Prospective participants are invited to submit papers for inclusion in the scientific program. Detailed information will be posted on the URSI AP-RASC 2025 website. Any topics related to URSI Commissions are welcome. In addition, papers addressing multidisciplinary aspects will be assigned to inter-Commission joint sessions.

The conference will be held as an in-person conference with only on-site presentations.

Paper Submission

All papers should be submitted electronically via the link provided on the URSI AP-RASC 2025 website, where the latest information on the submission procedures, templates, and sample formats will be posted. Accepted papers presented at URSI AP-RASC 2025 may be submitted for publication in IEEE Xplore, if the author wishes.

Check <https://ap-rasc.com/> for regular updates.

Important Dates:

Paper submission site opens: November 5, 2024
Paper submission deadline: February 20, 2025
Notification of acceptance: April 15, 2025

URSI Commissions

Commission A: Electromagnetic Metrology	Commission F: Wave Propagation and Remote Sensing
Commission B: Fields and Waves	Commission G: Ionospheric Radio and Propagation
Commission C: Radiocommunication and Signal Processing Systems	Commission H: Waves in Plasmas
Commission D: Electronics and Photonics	Commission J: Radio Astronomy
Commission E: Electromagnetic Environment and Interference	Commission K: Electromagnetics in Biology and Medicine

Young Scientist Award and Student Paper Competition

For the details on applications for the Young Scientist Award (YSA) and the Student Paper Competition (SPC), please visit the URSI AP-RASC 2025 website.

As usual with URSI Flagship meetings, authors can opt to submit papers presented at this URSI AP-RASC 2025 to IEEE Xplore and can take advantage of reduced page charges when submitting an extended or updated version of the papers to URSI Radio Science Letters. In addition, there will be a special program for young scientists and a student paper competition.

URSI AP-RASC 2025 General Chairs

- Paul Smith, Macquarie University, Australia (Chair)
- Kazuya Kobayashi, Chuo University, Japan (co-Chair)
- Elena Vinogradova, Macquarie University, Australia (co-Chair)

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URSI GASS 2026

The next URSI General Assembly and Scientific Symposium (GASS) will take place in Krakow, Poland from 15 till 22 August 2026



URSI GASS 2029

In Sapporo at the occasion of our last General Assembly, URSI Council accepted the proposal from the URSI Committee in Singapore to host the XXXVIth GASS in Singapore from 11 till 18 August 2029.



URSI School on Radio Science

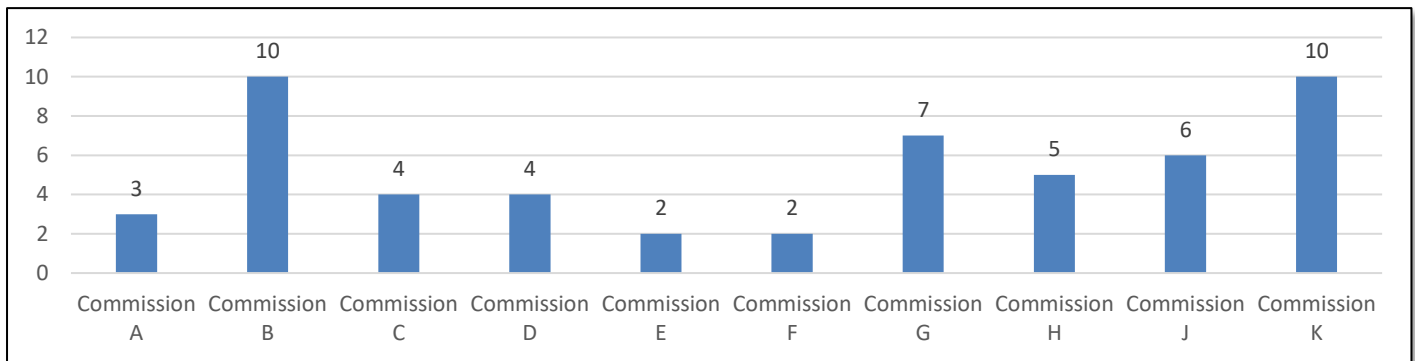
The 2nd edition of the URSI Radio Science School for Young Scientist (RSS-YS) was held during the 4th URSI AT-RASC 2024 conference in Gran Canaria on 19-20 May 2024.

The School is an educational initiative targeted at PhD Students, Postdoctoral fellows, Early Career Professionals with a focus on interdisciplinary topics in the field of radio science. The School program is designed to stimulate interdisciplinary cooperation among the participants (mostly Young Scientists) broadening and/or deepening their knowledge in the School topic.

The topic selected by the URSI RSS-YS Committee for this edition at URSI AT-RASC 2024 was "Wireless Power Transmission for A Sustainable Society", and the School was organized by Prof. Nuno Borges Carvalho (past Chair of Commission A

Over 50 attendees from 22 countries were present and looking at the primary URSI Commissions of interest, the school clearly fulfilled its goal to be of a multidisciplinary character.

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LECTURERS:



Prof. Nuno Borges Carvalho

University of Aveiro, Portugal

Wireless Power Transmitter and Receiver Efficiency Optimization



Prof. Naoki Shinohara

Kyoto University, Japan

High Efficiency Rectenna Theory and Technology for Far Field Wireless Power



Dr. Valentina Palazzi

University of Perugia, Italy

Harmonic Backscattering: a path towards energy-autonomous clutter-insensitive wireless sensing

URSI Member Committee Activities

Italian URSI Committee Meeting – “XXV Riunione Nazionale di Elettromagnetismo (XXV RiNEm 2024)”

Viareggio (Lucca), 30 September to 2 October 2024

The “XXV Riunione Nazionale di Elettromagnetismo” will take place in the beautiful city of Viareggio (Lucca), from 30 September to 2 October 2024. It is organized by the Società Italiana di Elettromagnetismo (SIEm).

RiNEm 2024 will provide an excellent contact point for researchers working on Applied Electromagnetics. It will also represent an opportunity for the exchange of professional experiences among young researchers from Universities and Research Centers.



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The conference will be jointly organized with the 2024 URSI Italian National Meeting. At this occasion the Sorrentino Award will be handed out.

The award is established by the International Union of Radio Science (URSI) in memory of Prof. Roberto Sorrentino. A 500 € prize will be awarded to the main author (age below 35 years) of the best work submitted to the 2024 Annual Meeting of the Italian URSI National Committee (URSI ITNC). Info: <https://rinem2024.unipi.it/>

XXXIX Simposio Nacional de la Unión Científica Internacional de Radio / XXXIX Spanish URSI Committee Symposium

Escuela Politécnica de Cuenca, Cuenca, 4-6 September 2024

The Spanish URSI Member Committee Symposium is the most important gathering of the Spanish URSI community. It has been held without interruptions since 1980. Although the symposium is open to all URSI commissions, the Spanish URSI community is more active in telecommunications and radio-physics, with special emphasis in microwave engineering, antennas and radio-astronomy. More info at www.ursi.es and the 2024 conference website <http://www.ursicuenca2024.uclm.es>



German National URSI conference – „Kleinheubacher Tagung 2024“

Miltenberg (near Frankfurt), Germany, 24 – 26 September 2024



The Kleinheubacher Tagung 2024 of the U.R.S.I. Landesausschuss in Deutschland e.V. will take place at the Old Townhall (Altes Rathaus) in Miltenberg, Germany, from 24 to 26 September 2024. Conference languages are English and German.



In 2024, the U.R.S.I. Landesausschuss in Deutschland e.V. celebrates its 70th anniversary. Ari Sihvola (Aalto University and President of URSI) and Julius Zimmermann (University of Pavia) are invited as plenary speakers.

Conference website: <https://kh2024.de/>

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Meetings with financial support by URSI Commissions

CSNDSP 2024 - 14th International Symposium on Communication Systems, Networks and Digital Signal Processing 17-19 July 2024, Rome, Italy

CSNDSP has been running biennial since 1998 growing in size and success and normally attract about 200 delegates from around the world. It has been recognised as an international forum to present and exchange research findings and discuss future research topics in the fields of communication systems, communications networks, digital signal processing and other related areas. CSNDSP offers the opportunities for researchers to participate in organising workshops, tutorials, and open discussions in upcoming research topics. Papers accepted for presentation are published in IEEEExplore while selected papers are published in prestigious sponsoring journals.



CSNDSP 2024 is hosted in the Eternal City of Rome, Italy. Founded in 753 b.C., participants will have the opportunity to enjoy Rome's beauty, its monuments full of history, art and culture. It will be also an excellent opportunity to taste local gastronomy and wines. (<https://comlab.uniroma3.it/CSNDSP2024.php>)

IRI 2024 - Modeling the Ionosphere over Africa and Improvements of the International Reference Ionosphere

2 - 8 September, 2024, Pwani University, Kilifi Kenya



The International Reference Ionosphere (IRI) is an international project sponsored by the Committee on Space Research (COSPAR) and URSI. These organizations formed a Working Group in the late sixties to produce an empirical standard model of the ionosphere, based on all available data sources. Several steadily improved editions of the model have been released. For given location, time and date, IRI provides monthly averages of the electron density, electron temperature, ion temperature, and ion composition in the ionospheric altitude range. The IRI Workshop is open to all interested scientists. We welcome presentations that are IRI-related including comparisons of ground- and space-based data with IRI, improvements and applications of the model, and assimilation of data into IRI to bring it closer to real-time conditions. (<https://iri2024.pu.ac.ke/sources/index.php>)

16th International Workshop on Technical and Scientific Aspects of iMST Radar and Lidar (MST16/iMST3)

6 – 8 September 2024, Rostock, Germany

Since 1984, the MST workshops have been at the forefront of cutting-edge atmospheric and ionospheric research and technological development. In the spirit of evolution, MST16/iMST3 takes the exciting leap to incorporate iMST lidar observations and welcomes complementary studies combining radar, lidar, in-situ and other ground- and satellite-based techniques.

Papers address portions of the atmospheric domain extending from the Earth's surface to the ionosphere, with particular emphasis on the mesosphere, stratosphere and troposphere.

The International Steering Committee and the Local Organizing Committee eagerly anticipate reuniting the global iMST community after a long pause due to COVID-19. MST16/iMST3 promises to be a memorable and enriching experience, advancing the boundaries of scientific knowledge of iMST observations and profiling. Several invited talks will cover selected aspects of MST radar and lidar science.

Conference Website: www.iap-kborn.de/mst16



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11th VERSIM Workshop

**30 September - 4 October 2024,
Breckenridge, Colorado**

The 11th VERSIM Workshop will be held September 30 - October 4, 2024 at the Village at Breckenridge in beautiful Breckenridge, Colorado. The conference will be fully in-

person. Breckenridge is located in the Colorado mountains, but is less than two hours from the Denver International Airport. The early fall meeting period is intended to line up with Colorado's changing fall colors.

VERSIM is an international group of scientists that are interested in studying the behaviour of the magnetosphere and ionosphere by means of ELF and VLF radio waves, both naturally and artificially generated.

Since 2004, VERSIM workshops have been held every two years in multiple locations. They are the occasion to present and discuss recent results, new techniques and encourage collaboration within the space physics community.

SCIENTIFIC TOPICS

- Wave-particle interactions
- Wave-induced particle precipitation
- Wave propagation in the ionosphere and magnetosphere
- Results of recent space missions (e.g., Arase, MMS, RBSP)
- Simulations, Data assimilation, and machine learning applications
- Waves in other Magnetospheres
- Active Experiments

RFI2024

14 - 18 October 2024, Bariloche, Argentina

Spectrum sharing has become challenging due to the ever-growing demand for spectrum access by a wide range of emerging radio services. This in turn leads to an increased risk of Radio Frequency Interference between spectrum

users. This is particularly true for passive scientific services such as radio astronomy, Earth remote sensing, or meteorology, where sensitive measurements must be carried out in frequency bands defined by the laws of nature.

Protecting the scarce radio spectrum resources for science, while accommodating the needs of other spectrum users, can only be achieved in a joint effort. RFI

2024 offers the venue to promote interaction, exchange of ideas, and cooperation between researchers, engineers, and users from all radio science disciplines dealing with RFI, uniting them under the common goal of working on solutions to minimize the impact of interference. RFI 2024 is the seventh in a series of workshops focusing on this topic, the first of which took place in Bonn, Germany, in 2001. More information on the [RFI2024 website](#).

6th URSI-RCRS 2024

22-25 October 2024, Bhimtal, India

The URSI Regional Conference on Radio Science (RCRS) is a biennial flagship conference of the Indian Radio Science Society (InRaSS) and covers the broad research areas of URSI's ten Scientific Commissions. This years 6th URSI-RCRS is being organizing by Aryabhata Research Institute of Observational Sciences (ARIES) and Graphic Era Hill University (GEHU). The conference is scheduled to take place at GEHU, Bhimtal from 22nd to 25th October 2024.



RFI2024

October 14-18, 2024

Bariloche, Argentina



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Previous conferences at Symbiosis Pune (January 2014), JNU New Delhi (November 2015), NARL Tirupati (March 2017), IIT BHU (February 2020), IIT Indore (December 2022) and a Asia Pacific Radio Science (AP-RASC 2019) conference at New Delhi (March 2019) have significantly popularized the multi disciplinary research involving the radio science community.

Please visit the website: <https://www.aries.res.in/ursi.rcrs2024/>



There will be three pre-conference workshops on 22 October, 2024. Keeping the tradition of URSI, there will be Young Scientists Awards (YSA) and Students Paper Competition (SPC).

The conference is being organized in Bhimtal, which is a well-known lake town adjacent to the hill-station of Nainital. It has many historic and tourist places and weather-wise October is one of the best periods.

Reports from meetings with Technical Support by URSI

2023 Asia-Pacific Microwave Conference 5-8 December 2023 Taipei, Taiwan

Conference chairs: Prof. Jen-Tsai Kuo, Prof. Hsi-Tseng Chou, Prof. Sheng-Fuh Chang



The conference attracted in total 518 attendees. The programme consisted of 343 accepted papers out of 486 papers submitted which were divided over 56 sessions, partly in parallel.

Keynote speeches:

- Entering the Directive Communications and Sensors Era for SATCOM and 5G/6G Using Advanced Silicon Beamformer ICs (Prof. Gabriel Rebeiz, UCSD, USA)
- Silicon Technology Evolution for 5G Cellular Communication and Beyond (Dr. J. Sun, TSMC, Taiwan)
- Silicon mmWave Systems – Retrospect & Future (Dr. J.-H. Zhan, MediaTek, Taiwan)
- Efficient and Stable Activation by Microwave Annealing of a Silicon Nanostructure Doped with Phosphorus Above its Solubility Limit (Prof. James Hwang, Cornell University, USA)



A full calendar of all meetings supported by URSI is available on the URSI website.

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URSI WIRS – Women in Radio Science

WIRS Italy Young Scientist event

“Empowering waves: the radiant role of women in radio science”

16 February 2024, Faculty of Engineering, Sapienza University, Rome

The first Young Scientist Event of the Women in RadioScience (WIRS) Italian Chapter, entitled “Empowering Waves: The Radiant Role of Women in Radioscience”, was organized by PostDoc fellows (Dr. Laura Caramazza, Dr. Micol Colella and Dr. Simona D’Agostino) and PhD students (Dr. Noemi Dolciotti, Dr. Sara Fontana and Dr. Carmen Pisano) from the BioEMLab of Sapienza, University of Rome. The event took place in a hybrid modality and was open to URSI and URSI-WIRS members, as well as bachelor, master, and PhD students. This full-day gathering was designed to delve into the opportunities and remarkable contributions of women in radio science. The morning workshop featured presentations from emerging women scientists who shared their experiences, while the afternoon roundtable fostered an open discussion on gender-related themes in both research and industry. With 92 attendees, including students and researchers from across Italy, the event emphasized the importance of gender equality and inclusive education in radio science, serving as a platform to promote a discussion on the need for social efforts to ensure equal opportunities for all genders.

WIRS Spain Chapter

The Women in Radio Science (WIRS) Chapter of URSI-Spain is born with great enthusiasm. Our aim is to support Spanish girls and women in their personal development and success in any of the fascinating professions that contribute to the advancement of radio science. A more equal and inclusive society, in which everyone participates with more freedom of choice and less insecurity, and with proper professional recognition, results in healthier and happier citizens, ready to take on challenges and improve society.

The Women in Radio Science Chapter of URSI-Spain aims to stimulate early interest in radio science and technology among young girls, to share enthusiasm for experimentation and research, to combat myths and ignorance about science in general, to increase the number of women enrolled in science and technology courses in universities, and to help women start and maintain professional careers. And, of course, we warmly welcome Spanish female scientists who wish to contribute to the overall activities of URSI-Spain. These aspirations are based on the previous experiences of the members of the Chapter. Above all, we are united by our passion for sharing our vocations.

We also encourage all Spanish-speaking women around the world to join this wonderful initiative and contribute to the various actions we propose, with the aim of making radio science in Spanish a driving force for the necessary progress in our society and an example to follow.

In 2024, the Chapter has launched the first edition of the URSI-Spain Award for the "Best Project for the Promotion of Female Scientific and Technical Professions in Radio Science". For more information, visit <https://ursi.es/mujeres-en-radio-ciencia/>



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New WIRS Award in Egypt



The WIRS Committee in Egypt issues a new award for the best MSc and PhD thesis/ Dissertation for women to celebrate the excellence of women and encourage them in the field of radio science. 12 participants from the republic's public and private universities applied for this contest. WIRS activities and awards were supported by URSI and Horus University. Awards were given to the winners, along with a 10-minute summary of the distinguished contributions they have achieved and the obstacles they have faced. The outstanding winners were selected by a specialized committee in radio sciences based on pre-defined and announced criteria. More

information can be found at: <https://nrsc2024.horus.edu.eg/awards-award-for-womens-thesis-2/>

It is the first time this award has been made. It is the intention to establish a new shed of light for this women's activity and to make it annual. The winners were announced in the third session of WIRS that was held during the NRSC2024. This session highlighted the achievements of women in radio science in Egypt, as we listened to inspiring stories from one of the pioneers in radio science, Professor Dr. Hadia El-Hinnawy, and we learned about her contributions in this field and the obstacles she faced, as well as the support.

The winner selection was very difficult for the advanced level, and therefore the committee responsible for the award concluded that:

- First prize for the PhD dissertation awarded to Dr. Shaima Al-Banna, Alexandria University, under the supervision of Prof. Said El-Khamy, Prof. Hassan El-Ragal, Dr. Ahmad Al-Kabbany
- The second prize for the PhD dissertation was awarded to Dr. Rasha Samir, Ain Shams University, under the supervision of Prof. Hadia Elhennawy and Prof. Hesham El-Badawy,.
- The third prize for the master's thesis for the PhD dissertation was awarded to Eng. Radwa Ahmed, Ain Shams University, under the supervision of Prof. Diaa Khalil and Assoc. Prof. Yasser Sabry



A certificate of appreciation was given to all the participants.

We hope this session inspires women to develop their careers in radio science and pursue their dreams in this field. We hope that this session will inspire future generations of women to develop their careers in radio science and pursue their dreams in this exciting and evolving field. Together, we can build a brighter future for radio science, one that includes more women around the world.

For more information please contact Rowayda A. Sadek, Professor, Faculty of Computers and Artificial Intelligence, Helwan University, Egypt Chair of Women in Radio Science Chapter

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WIRS China CIE

On 11 February 2022, the United Nations celebrated the 8th International Day of Women and Girls in Science Assembly for "Equity, Diversity, and Inclusion: Water Unites Us" to recognize the critical role of women and pursue gender Equity in science and technology communities. Within the URSI community, Dr. Asta Pellinen Wannberg (Umea University, Sweden) in 2015 staffed the Women in Radio Science column in the Radio Science Bulletin. In 2020, the United States National Committee of URSI launched the first Women in Radio Science (WIRS) Chapter chaired by Prof Reyhan Baktur (Utah State University, USA). Women have received one of seven Booker Gold Medals awarded since 2002, three of 13 Issac Koga Gold Medals awarded since 1984, one of three Santimay Basu Prizes awarded since 2014, and one of 19 John Howard Dellinger Medals since 1966.

In Jan 2024, the URSI committee in China has officially agreed to establish the Women in Radio Science WIRS Chapter within URSI-CIE and recommend Haiyang Fu as the Chair. The WIRS-China officers includes: Haiyang Fu, Professor, Fudan University (Chair), Ying Liu, Professor, Xidian University (Vice-Chair) and Qianjuan Wang, Beijing Orient Institute of Measurement and Test (Secretary).

The WIRS activities in China will plan to include a Chinese session at national URSI meetings (China National Symposium on Radio Propagation) and an English session at International Symposium on Antennas, Propagation and EM Theory (ISAPE) <https://www.rpsoc.cn/isape2024/>. We will organize a session to invite female speakers and students to participate our session to promote the female career development. We would also request for 500€ and the intended use is for the session organization for food dissert and notebook in 2024.

Lastly, we appreciated the former URSI Vice President Patricia Doherty to encourage us to establish such a chapter to promote female scientist and engineers evolved in radio science in Feb, 2022. We believe this proposed WIRS chapter in China will strengthen the global impact of URSI and also connect all together all over the word.

URSI Publications

For many years The Radio Science Bulletin was the major channel of communication for our URSI community. All issues have now been digitalised and are available from the [URSI website](https://www.ursi.org/). The 1st issue was published in January 1938 and the publication was called "Bulletin" and appeared in English and French.

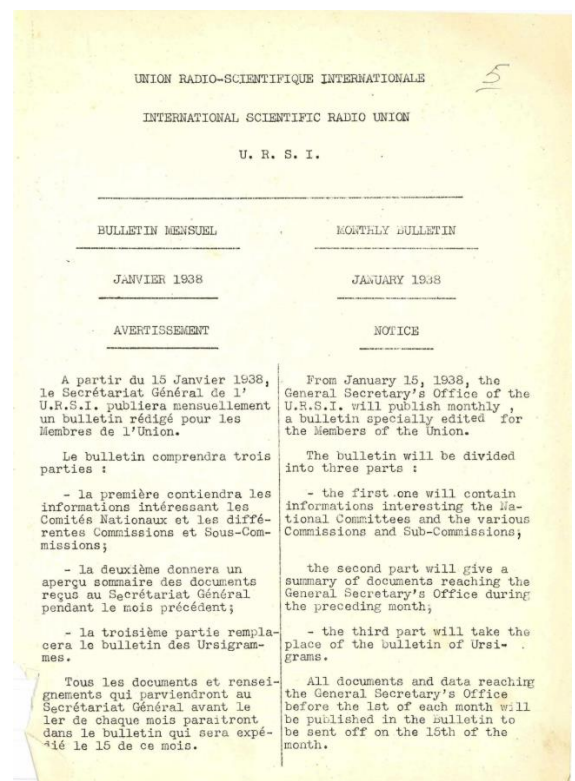
This "Bulletin" remained until 1990 when a 1st combined issue "The Radioscientist & The Bulletin" was published.

In 1993 this was rebranded as "The Radio Science Bulletin". In total 378 issues were published (last issue in September 2021) and all are now freely available.

URSI Resolutions & Records

Every 3 years, at the occasion of the URSI General Assembly, URSI Council meets 4 times during the course of the General Assembly. At the final meeting URSI Council votes on proposed resolutions. If accepted, these URSI resolutions are published in the Records of the General Assembly.

These Records of URSI General Assemblies (three-yearly, following each Assembly) contain the principal Recommendations and Resolutions adopted, and a summary account of the other business transacted during the Assemblies by the URSI Council and the Scientific Commissions. The Resolutions adopted by URSI Council at the occasion of the URSI General Assemblies are listed at: <https://ursi.org/proceedings.php> where a tab is available for the Records as well as the Resolutions.



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At the occasion of the URSI General Assembly in Sapporo, August 2023, URSI Council adopted the following resolutions (details are available through the links on the individual resolutions)

- [2023 U01 Membership dues](#)
- [2023 U02 Membership Status of Argentina, Bulgaria, Chile, Greece and Singapore](#)
- [2023 U03 Membership Status of Iraq and Ukraine](#)
- [2023 U04 Continuation of the Strengthening of the URSI-ITU Inter-Unions WG](#)
- [2023 U05 37th GASS](#)
- [2023 U06 Vote of thanks](#)

Report from partnering organizations

IUCAF The Scientific Committee on Frequency Allocations for Radio Astronomy and Space Sciences

The Inter-Union Committee on the Allocation of Frequencies (IUCAF) was formed in 1960 by the International Astronomical Union (IAU) and the International Union of Radio Science (URSI), at the behest of URSI. The Committee on Space Research (COSPAR) joined the two Unions in supporting IUCAF around 1972, with a consequent change of name (but not the acronym).

The IUCAF brief is to study and coordinate the requirements of radio frequency spectrum allocations for passive radio sciences – radio astronomy, space research and remote sensing – and to make these requirements known to the national and international bodies that regulate the use of the radio spectrum.

IUCAF, like COSPAR, operates as an Affiliated Body of the International Science Council (<https://council.science/what-we-do/affiliated-bodies/>) where IAU and URSI are members. IUCAF is a Sector Member of the International Telecommunication Union's Radiocommunication Sector (ITU-R) with observer status at the Space Frequency Coordination Group (SFCG) and its Lunar-Martian Spectrum Group (LMSG), see <https://www.sfcgonline.org/home.aspx>.

IUCAF is a global forum where spectrum management concerns of passive radio science in all ITU-R Regions are regularly addressed in a comprehensive manner. The group is expert in the underlying science, in the spectrum management needs of the science and in the workings of the spectrum regulatory regime that allocates spectrum and makes the rules for radio spectrum use. IUCAF has supported radio astronomy and passive radio science in Geneva since its inception in 1960 when the first spectrum band was allocated for exclusive use by passive research at 1 400 – 1 427 MHz.

IUCAF is online at <http://www.iucaf.org>. The first 40 years of IUCAF's history are summarized at www.gb.nrao.edu/sd03/talks/40_years.pdf.

The IUCAF membership from the three adhering bodies during most of 2023 was:

URSI:	Dr. Haiyan Zhang	China	IAU:	Dr. Harvey Liszt (Chair)	USA
	Dr. Steven Reising	USA		Dr. Masatoshi Ohishi	Japan
	Dr. Ingemar Häggström	Sweden		Dr. Adrian Tiplady	South Africa
	Dr. Anastasios Tzioumis	Australia	COSPAR:	Dr. Yasuhiro Murata	Japan
	Dr. Wim van Driel	France			

Make sure to follow URSI on social media:

