

URSI-FRANCE WORKSHOP

METROLOGY AT THE HEART OF TODAY'S TECHNOLOGIES

FUNDAMENTALS, METHODS AND INSTRUMENTS, FROM RF TO OPTICS

10-12 JUNE 2025
PARIS 6^E, CAMPUS DES CORDELIERS

ANNOUNCEMENT – 1ST CALL FOR COMMUNICATIONS

Metrology is the science of measuring. It defines the principles and methods allowing to guarantee the confidence in measurements. To that aim, it develops and ensures that national reference standards are maintained, recognized internationally and allowing industry to reference their measuring instruments to the International System of Units (SI). (see: <https://www.lne.fr/fr/comprendre/la-metrologie>).

It is a **transversal science** that applies in all areas where quantitative measurements are carried out, relating to both **fundamental issues and applications** concerning everything that is measured. This is the reason why, even if we restrict ourselves to those for which electromagnetic waves play a role, **we are dealing here with a multiplicity of subjects**. This largely motivates the choice made for this URSI-France workshop 2025 (JS 25) of the following topics:

- Atomic clocks, time scales, optical and microwave time-frequency dissemination
- Quantum metrology and detection, fundamental electrical metrology
- Electromagnetic wave-based sensors (radio frequency, terahertz, optical)
- High frequency measurements, calibration tools and methods
- Antenna measurements: techniques, instruments, dynamics, resolution and uncertainties
- Electromagnetic dosimetry
- Electromagnetic localization, quantification of uncertainties
- Electromagnetic measurements of biological objects, diagnostics and bio-detection
- Electromagnetic characterization of materials, non-destructive measurements

The workshop will be structured around keynote and invited communications, and oral and poster sessions, with the aim of allowing a fruitful meeting between young scientists, experienced researchers and industry players, participants or exhibitors.

► **The program will include an open session**, allowing young scientists to present work **on any subject relating to radioscience**.

► Furthermore, the URSI policy of supporting the **participation of women in radioscience** strongly encourages them to make their work visible within the framework of JS 25 workshop.

ORGANIZATION

The workshop will take place from Tuesday June 10 to Thursday June 12 morning (2 ½ days) at the Cordeliers campus (15 rue de l'École de médecine 75006 Paris). All information is available on the URSI-France website: <https://www.ursi-france.org>

COMMITTEES

Scientific committee chair : Joseph Achkar (LNE-SYRTE, Observatoire de Paris)

Co-chairs : Tahsin Akalin (IEMN, U. Lille), Djamel Allal (LNE), Olivier Meyer (GEEPS, Sorbonne U.), Julien Sarrazin (GEEPS, Sorbonne U.), Yann Le Bihan (GEEPS, U. Paris-Saclay)

Joël Andrieu (XLIM, U. Limoges) Aktham Asfour (G2elab, U. Grenoble Alpes) Stéphan Briau (LNE-CNAM) Alexis Chevalier (Lab-STICC, U. Bretagne Occidentale) Baptiste Chupin (LNE-SYRTE, Observatoire de Paris) Andrea Cozza (GEEPS, CentraleSupélec) Raffaele D'Errico (LETI, CEA) Jean-Marc Decitre (IRSN) Cédric Durand (STMicroelectronics) Omar Elmazria (Institut Jean Lamour, U. Lorraine) Katia Grenier (LAAS, CNRS) Kamel Haddadi (IEMN, U. Lille) Lucien Hammen (INRS) Pierre-Marie Jacquart (Dassault Aviation)	Rodolphe Le Targat (LNE-SYRTE, Observatoire de Paris) Laurent le Coq (IETR, U. Rennes) Laurent Pecastaing (SIAME, U. de Pau et des Pays de l'Adour) Odile Picon (ESYCOM, U. Gustave Eiffel) François Piquemal (LNE) Paul-Eric Pottie (LNE-SYRTE, CNRS) Philippe Pouliguen (DGA) Christophe Risacher (IRAM) Christophe Roblin (LTCI, Télécom Paris) Enrico Rubiola (FEMTO-ST, U. Bourgogne-Franche-Comté) François Sarrazin (IETR, U. Rennes) Olivier Tantot (XLIM, U. Limoges) Joe Wiat (LTCI, Télécom Paris) Maxim Zhadobov (IETR, CNRS)
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Organizing committee chair : Alain SIBILLE (URSI-France & LTCI, Télécom Paris)

Joël Hamelin (URSI-France) Lluis M. Mir (URSI-France & Gustave Roussy, CNRS)	Hervé Sizun (URSI-France)
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CNFRS/URSI-FRANCE MEDAL AND RADIOSCIENCES PHD AWARD

The workshop will be the opportunity to remit the [annual URSI-France Medal](#), as well as the 2023 [Radiosciences PhD Award](#) under the aegis of [URSI-France](#) and of [ANFR](#).

AWARDS

- A **"Young researcher" grant of 300 euros and free registration** will be provided to the main author and presenter of the best article, if the candidate is under 35 on March 26, 2024, and affiliated with a European laboratory other than French.
- The best paper **"Young Scientist" award** will be selected by the scientific committee. The young scientist must be a Ph.D. student or post-doctoral student and the first author of the paper.

These two allocations are independent and may turn out to be given to the same person.

PUBLICATIONS

The proceedings of the workshop will be available in open access on the URSI-France website (<https://www.ursi-france.org>). A selection of papers will be proposed for extended publication in the **Comptes rendus de l'Académie des sciences - Physique** (in English).

INSTRUCTIONS FOR AUTHORS

Proposals for papers should be submitted online via the dedicated website: <https://ursifr-2025.sciencesconf.org> in the form of a clear and concise text of **one to two pages (summary paper)**, with sufficient content to allow their scientific evaluation. An MS-WORD Template (text, presentation and poster) will be available on the workshop website and the URSI-France website. After acceptance, the authors have a few weeks to provide a revised/completed version. *The slides will be in English while the talks may be English or French.*

KEY DATES

February 12, 2025

April 2

Avril 30

May 7

May 23

10-12 juin

Deadline for submission of summary papers

Notification to authors of acceptance

Deadline for submission of full papers

Notification to authors of full paper acceptance and online registration open

Registration deadline

Workshop

REGISTRATION

The **registration fee is 290 €** for each participant. It includes, among others, lunches and coffee breaks. A **145€ reduced fee** will be applied to students and retired participants.

Registrations have to be made **online**: <https://ursifr-2025.sciencesconf.org>