

URSI-FRANCE WORKSHOP

WAVES FOR PLASMAS, PLASMAS FOR WAVES

26-27 MARCH 2024
PARIS 5^E, JUSSIEU CAMPUS

1ST CALL FOR COMMUNICATIONS

Plasmas, these states of matter comprised of charged particles, play a pivotal role in a variety of industrial and scientific applications. These applications span from cleaning and material deposition to space propulsion and nuclear fusion, encompassing the study of the ionosphere, interplanetary environments, and astrophysical plasmas. Due to their electrical conductivity, plasmas interact with electric and magnetic fields in numerous ways. Electromagnetic waves can be harnessed to both generate and study plasmas, but conversely, plasmas can also serve as versatile tools for creating waves with appropriate characteristics.

The URSI-France 2024 workshop, organized under the auspices of the French Academy of sciences, will focus on "Waves for Plasmas, Plasmas for Waves". It will be structured around oral and poster sessions. Most of the sessions will be introduced by keynotes and guest speakers, presenting the state of the art and/or recent developments, followed by papers selected by the scientific committee.

The workshop aims to bring together researchers (from academia and industry) under the following topics:

- Generation of plasmas by microwaves/RF waves
- Plasma heating
- Innovative instrumentation
- Wave diagnostics
- Modeling and simulation of wave/plasma interactions
- Electromagnetic Compatibility (EMC)
- Other wave/plasma/wave interactions

URSI-France, applying the URSI policy of support to women in radio science, warmly encourages them to highlight their works in the context of JS 2023.

Sponsored by:



ORGANISATION

This workshop will take place on Tuesday, March 26 and Wednesday, March 27 at the International Conference Center, Sorbonne University, Jussieu campus (Paris 5th).

All information related to the workshop is available on the website: <http://ursi-france.org>

COMMITTEES

Scientific committee chairs: **Elvira ASTAFYEVA (IPGP) et Julien HILLAIRET (CEA/IRFM)**

Mathieu Barthelemy (IPAG)
Pierre-Louis Blelly (IRAP)
Matthieu Bonilla (Nuclétudes)
Carine Briand (LESIA)
Sébastien Celestin (LPC2E)
Pierdaveide Coisson (IPGP)
Vincent Fabbro (ONERA)
Thomas Farges (CEA/DAM)
Patrick Galopeau (LATMOS)
Stéphane Heuraux (IJL)
Emmanuel d'Humières (U.Bordeaux)
Claudia Lazzaroni (LPSM)

Vincent Maget (ONERA)
Denis Packan (ONERA)
Philippe Pouliguen (DGA)
Alessandro Retinò (Ecole Polytechnique/LPP)
Laurence Rezeau (LPP/PLAS@PAR)
Xavier Ribeyre (CEA/DAM)
Jean-François Ripoll (CEA/DAM)
Roland Sabot (CEA/IRFM)
Stéphane Saillant (ONERA)
Jérôme Sokoloff (LAPLACE)
Laure Vermare (LPP)
Arnaud Zaslavsky (LESIA)

Organizing committee chair: **Alain SIBILLE (Telecom Paris & URSI-France)**

Joël Hamelin (URSI-France)
Julien Hillairet (CEA/IRFM)
Luis Mir (CNRS & URSI-France)
Alessandro Retinò (Ecole Polytechnique/LPP)

Laurence Rezeau (Sorbonne université/LPP & PLAS@PAR)
Jean-François Ripoll (CEA/DAM)
Julien Sarrazin (Sorbonne université/GEEPS)
Hervé Sizun (URSI-France)

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 (<http://ursi-france.org>). A selection of papers will be proposed for extended publication, either in the **Comptes rendus Physique de l'Académie des sciences** (in English) or in the **Revue de l'électricité et de l'électronique** (in French).

INSTRUCTIONS FOR AUTHORS

Proposals for papers should be submitted online via the dedicated website: <https://ursifr-2024.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

December 15, 2023

January 31, 2024

February 21, 2024

March 1st, 2024

March 8, 2024

March 26-27, 2024

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

Deadline of registration

Workshop

REGISTRATION

The **registration fee is 250 €** for each participant. It includes, among others, lunches and coffee breaks. A **125€ reduced fee** will be applied to students and retired participants.

Registrations have to be made **online**: <https://ursifr-2024sciencesconf.org>