

## URSI-FRANCE WORKSHOP

# NANO, MESO, MICRO: SCIENCE AND INNOVATION FOR RADIO AND PHOTONICS

March 22-23, 2022

Telecom Paris, Institut Polytechnique de Paris (Palaiseau, France)

### 1<sup>ST</sup> CALL

The URSI-France 2022 workshop, organized under the auspices of the French Academy of Sciences, will focus on "Nano, meso, micro: science and innovation for radio and photonics". Although based on very powerful physical concepts, these technologies lend themselves to applications, by offering technical or technological solutions with high innovation potential. The workshop will be held on the campus of Telecom Paris, Institut Polytechnique de Paris, in Palaiseau (France), from March 22 to March 23, 2022.

This workshop is intended to bring together the scientific communities concerned with the design, the physical phenomena and the integration of micro, meso and nanodevices based on semiconductors or on new materials, directed toward micro and nano electronics, radio science, optoelectronics, and quantum photonics.

In this context, the workshop will be organized around oral sessions and posters. Most sessions will be introduced by invited speakers, presenting the state of the art and / or recent developments, followed by papers that have been selected by the Scientific Committee. Submissions as well as presentations can be, and will mostly be, in English.

The scientific fields covered are broad and range from the study of elementary materials and components to quantum technologies and their integration into systems, with particular emphasis on the topics below:

#### Main topics

Micro-nanotechnologies and systems, new materials and nanostructures, 1D & 2D nanomaterials, metasurfaces, large area nanostructured materials

Metamaterials and reconfigurable components and circuits, micro and nano-antennas

Micro and nanophotonics, photonic crystals, metamaterials, plasmonics, order and disorder, mesoscopic systems

Photonic components, photonic and optoelectronic integration

Electronic components and micro-nano-electronic integration, THz components and technologies

Components in extreme / specific environments

Electronics and organic nanophotonics, nanosensors, MEMS and NEMS

Quantum technologies, quantum sensors, spintronics, quantum communications, quantum computing

Development of instruments for radio and photonics at small scales / very high frequencies

a mis en forme : Police :(Par défaut) Tahoma, Anglais (Royaume-Uni)



## ORGANIZATION

The 2020 URSI-France workshop will take place on TELECOM PARIS campus (<https://www.telecom-paris.fr>) in Palaiseau, **Tuesday 22 and Wednesday 23, March 2022**.

## COMMITTEES

**Scientific Chair: Frédéric Grillot, Telecom Paris, France**

|   |  |
|---|--|
| Tahsin Akalin (Université de Lille)               | Jean-Michel Gérard (CEA, Grenoble)           |
| Romain Alleaume (Télécom Paris)                   | Ali Khalighi (Institut Fresnel, Marseille)   |
| Xavier Begaud (Telecom Paris)                     | Michel de Labachellerie (Femto-ST, Besançon) |
| Shah Nawaz Burokur (Université de Paris Nanterre) | Isabelle Ledoux (ENS Paris-Saclay)           |
| Beatrice Dagens (Université de Paris Saclay)      | Alain Sibille (Telecom Paris)                |
| Frédérique de Fornel (Université de Bourgogne)    | Carlo Sirtori (ENS Paris)                    |
| Olivier Gauthier-Lafaye (LAAS, Toulouse)          | Arnaud Vena (Université de Montpellier)      |

**Organizing Committee Chair: Alain Sibille, Telecom Paris, France**

Jean-Benoit Agnani (ANFR), Joël Hamelin (URSI-France), Yves Jaouen (Telecom Paris), Lluís M. Mir (CNRS), Hervé Sizun (URSI-France), Shiyuan Zhao (Telecom Paris)

## 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 2022 **Radiosciences PhD Award** under the aegis of [URSI-France](http://www.ursi-france.org) and of [ANFR](http://www.anfr.fr).

## EUROPEAN YOUNG SCIENTIST GRANT

A **Young scientific grant of 300 euros** and a **free registration** will be awarded to the principal author and presenter of the best article, if he is under 35 and affiliated to a European laboratory other than French.

## PUBLICATION

The texts of the communications will be grouped together in proceedings, an electronic version of which will be available on the web site of URSI-France (<http://www.ursi-france.org>)

A selection of papers will be proposed for publication, either in a **special issue of the Comptes rendus Physique de l'Académie des sciences** or in the **Revue de l'électricité et de l'électronique (REE)**.

## INSTRUCTIONS FOR AUTHORS

Proposals for papers should be submitted online via the dedicated website: <https://ursifr-2022.sciencesconf.org/>, in the form of a **clear and concise text of one to two pages**, with sufficient content to allow their scientific evaluation. A **Template** will be available on the workshop web site and on the URSI-France website.

## KEY DATES

**December 17, 2021:** **Deadline for submission of abstracts**  
January 19, 2022: Notification to authors of acceptance by the Scientific Committee.  
**February 16, 2022:** **Deadline for full text submission**  
March 2, 2022: Notification of the final acceptance of the full paper  
**March 22-23, 2020:** **Workshop**

## REGISTRATION FEES

The **registration fee is 220 €** for each participant. It includes, among others, lunches and coffee breaks. A **125 € reduced fee** will be applied to students and retired participants.

**Registration to the Workshop** will have to be made online: <https://ursifr-2022.sciencesconf.org>, **before March 17, 2022**

## FURTHER INFORMATION

All relevant information about the 2022 Workshop is available on the URSI-France website: <http://www.ursi-france.org>.