



The National Institute for Laser, Plasma and Radiation Physics ([INFLPR](#)), with the support of the Association Laser, Plasma and Radiation - Science and Technology ([LPR-ST](#)), is pleased to announce the 3rd International Conference on Laser, Plasma and Radiation - Science and Technology ([ICLPR-ST](#)), which will take place during 29 June - 3 July, 2026 in Poiana Braşov, Braşov county, Romania in Alpin Resort Hotel, approximately 12 km from the city of Brasov, in the heart of the Carpathian Mountains.

Following the previous editions, the conference continues to serve as an international forum for researchers, academics, and industry experts active in laser science, plasma physics, radiation technologies, and related interdisciplinary areas. The event aims to facilitate scientific exchange, promote collaboration, and provide a platform for presenting recent developments in both fundamental research and applied technologies. Through this third edition, we continue our efforts to establish a lasting scientific tradition dedicated to laser, plasma, and radiation science.

The scientific program includes plenary lectures, invited talks, oral presentations, and poster sessions covering topics such as laser-matter interaction, plasma diagnostics and modelling, photonics, advanced materials processing, nanomaterials synthesis, plasma chemistry, environmental and biomedical applications, sustainable energy technologies, and emerging interdisciplinary directions.

## CONFERENCE TOPICS

- Fundamentals, diagnostics and modelling in laser, plasma and radiation physics
- Advances in optics, laser and photonics
- Devices based on photonic and plasma technologies
- Life sciences applications
- Energy production and storage
- Environmental protection and pollutants monitoring

## KEY DATES

- Final deadlines for abstract submissions
  - May 5<sup>th</sup> for oral presentations
  - May 15<sup>th</sup> for poster presentations
- April 30<sup>th</sup>, 2026: Registration open
- May 20<sup>th</sup>, 2026: Early bird fee payment deadline
- June 12<sup>th</sup>, 2026: Final announcement and conference program



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Ion N. MIHAILESCU

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## PLENARY SPEAKERS



**Sander BEKESCHUS** – Rostock University Medical Center, and Leibniz Institute for Plasma Science and Technology – INP, Greifswald, Germany  
*- Medical Gas Plasma Technology – From Today’s Wounds to Tomorrow’s Cancer*



**Silke CHRISTIANSEN** – Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Forchheim, Germany  
*- Scale-Bridging Multi-Modal Analytics in Energy Research: Harnessing Data Correlation and Machine Learning for Enhanced Materials and Device Optimization*



**Razvan STOIAN** – University Jean MONNET – CNRS, Saint-Etienne, France  
*- Programmable Laser Nanostructuring*

## INVITED SPEAKERS



**Erik BECKERT** – Fraunhofer Institute for Applied Optics and Precision Engineering IOF, Jena, Germany  
*- Packaging Technologies for Robust, Hybrid Laser Systems*



**Yves BELLOUARD** – Ecole Polytechnique Fédérale de Lausanne, Switzerland  
*- On the Use of Femtosecond Lasers to Tune Functional Properties of Materials*



**Martin ČADA** – Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic  
*- Process Characterization of High-Entropy Transition Metal Disulphides Deposited by R-HiPIMS in H<sub>2</sub>S Atmosphere*



**Cătălin-Daniel CONSTANTINESCU** – Aix-Marseille Université, CNRS, Marseille, France  
*- Pulsed Laser Ablation in Liquids of MnZn Ferrites: From Green Synthesis to Sustainable Nanomagnetic Devices*



**Virgil DUMA** – Polytechnic University of Timisoara, Romania  
*- Laser Scanning for Optimizing Optical Coherence Tomography-Based Imaging*



**Fiorenza FANELLI** – Institute of Chemistry of Organometallic Compounds – ICCOM – CNR, Bari, Italy  
*- Advancing Atmospheric Pressure Plasma Surface Engineering for Environmental and Catalytic Applications*



**Daniel FARKAS** – Department of Biomedical Engineering, University of Southern California, Los Angeles, USA  
*- Biomedical Optical Imaging for Translational Diagnostics and Treatment: From 3D Optical Biopsies to Pixel-precision Laser Theranostics*



**Dani GALLART** – ENN Science and Technology Development Co., Ltd. Langfang, China  
*- Advancing Spherical Torus Proton–Boron Fusion: Physics, Technology, and AI-Enabled Control*

-  **Eva KOVACEVIC** – GREMI, Orleans University, France  
- *Low temperature plasmas for 2D and 3D materials*
-  **Kinga KUTASI** – Wigner Research Centre for Physics, Budapest, Hungary  
- *Plasma-Activated Colloids for Bioapplications: Characteristics of a Surface-Wave Microwave Discharge and Design of Laser Ablation in Liquid System*
-  **Thomas LIPPERT** – Paul Scherrer Institute, Villigen, Switzerland  
- *Thin Film Batteries Prepared by Physical Vapour Deposition (PVD) Methods*
-  **Andrei Ionut MARDARE** – Johannes Kepler University, Linz, Austria  
- *Anodic Memristors: A New Generation of Nanoscale Devices for Memory and Artificial Synapse Applications*
-  **Paula NAVASCUÉS** – Swiss Federal Laboratories for Materials Science & Technology – EMPA, St. Gallen, Switzerland  
- *Catalytic Plasma Coatings for Remediation Challenges within the Planetary Boundaries Framework*
-  **Fabio DI PIETRANTONIO** – Institute for Microelectronics and Microsystems – IMM – CNR, Rome, Italy  
- *Advanced Functional Materials for Hydrogen Storage and Piezomagnetic Transduction*
-  **George SARAU** – Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Forchheim, Germany  
- *Correlative Spectroscopy and Microscopy Analysis of Micro- and Nanoplastics and Their Effects on Cells and Tissues*
-  **X. SEDAO** – Jean Monnet University Hubert Curien Laboratory, Saint-Étienne, France  
- *Ultrafast Laser for Biomimetic Surfaces and Their Applications*
-  **Stefan G. STANCIU** – National University of Science and Technology Politehnica, Bucharest, Romania  
- *Advances in Scattering-Type Near-Field Optical Microscopy: From Quantitative and Correlative Nanoscopy to AI-Enhanced Imaging*
-  **Koji SUGIOKA** – RIKEN Center for Advanced Photonics, Saitama, Japan  
- *Ultrahigh-Speed, Ultrahigh-Aspect-Ratio Glass Through-Hole Drilling Using a Single Ultrafast Bessel Pulse in GHz Burst Mode*
-  **Hiromasa TANAKA** – Nagoya University, Japan  
- *Plasma-Activated Liquids: From Fundamental Science to Biomedical Applications*
-  **Ionut TOPALA** – Alexandru Ioan Cuza University, Iasi, Romania  
- *Advanced Monitoring of Air Non-Thermal Plasma Sources: Key Applications*
-  **Olivier UTEZA** – Laboratoire Lasers, Plasmas et Procédés Photoniques – LP3, Marseille, France  
- *In-Operando Sub-Picosecond X-ray Diagnostics for High-Resolution Material Analysis and Imaging*
-  **Sergiu VATAVU** – Moldova State University, Chisinau, Republic of Moldova  
- *Chromogenic Coatings for Energy Efficient Windows*
-  **Daniel VIZMAN** – Faculty of Physics, West University of Timișoara, Romania  
- *Tailoring Optical Properties in Fluoride Crystals via Tb and Tm Incorporation*
-  **Fang YANG** – Ningbo Institute of Materials Technology and Engineering, China  
- *Metal-Doped Functional Nanoprobes for Multimodal Imaging-Guided Synergistic Tumor Theranostics*

## INDUSTRIAL WORKSHOP

In the period 29 June - 2 July, 2026 will be organized the 1<sup>st</sup> edition of the Workshop on National Innovation Ecosystems for Microelectronics and Photonics, a dissemination event organized in the frame of the National Platform for Semiconductor Technologies (PNTS) Project - SMIS Code 351364, Contract no. G 2024-85828/390008/27.11.2024.

### Participating COMPANIES

- Arrow
- CITST
- Dentix
- East Electric
- EMI Shielding
- EPI System
- Infosec
- Inno Robotics
- MicroNanoTech
- MGM
- Plasma Jet
- Rolix

## ABSTRACTS

The accepted abstracts will be included in a Book of Abstracts (ISSN 2821-7128) available online and distributed in electronic format to all conference participants.

## PROGRAMME

The Conference will include plenary (40+5 min) and invited lectures (27+3 min), as well as oral presentations (13+2 min) and poster sessions. Young scientist prizes will be awarded upon evaluation.

The Provisional **Program at a Glance** is available on the Conference website. The Conference program will be distributed together with the Final Announcement on June 12<sup>th</sup>, 2026.

## REGISTRATION

Registration can be done by filling in the Registration form available on the conference website after notification of abstracts acceptance (<https://iclpr-st.inflpr.ro/registration/>). You will receive a confirmation e-mail of your registration. The registration fee covers conference materials, lunches and coffee breaks during the conference, the welcome reception on Monday, June 29<sup>th</sup> and the conference dinner on Thursday, July 2<sup>nd</sup>.

	Early - before May 20 <sup>th</sup>	Late - after May 20 <sup>th</sup>
Regular	570 EUR	650 EUR
Student*	450 EUR	500 EUR
Accompanying**	350 EUR	350 EUR
Regular - <i>member of Association</i> <sup>+</sup>	520 EUR	600 EUR
Student - <i>member of Association</i> <sup>+</sup>	400 EUR	450 EUR

\* Students should provide evidence for their university affiliation during the registration process.

\*\* The registration fee for the accompanying persons includes lunches, the welcome reception and the conference dinner.

<sup>+</sup> Members of Laser, Plasma and Radiation - Science and Technology Association should provide proof of membership during the registration process.

The registration fee should be paid by bank transfer using the following coordinates:

- Beneficiary: "Laser, Plasma, Radiation - Science and Technology" Association
- Address: 409 Atomistilor Street, Magurele, Ilfov County, 077125, Romania
- CUI/VAT Number: 46426650
- Bank: Transilvania Bank, Magurele Branch
- IBAN RON: RO58BTRLRONCRT0641479401
- IBAN EUR: RO08BTRLEURCRT0641479401
- SWIFT CODE: BTRLRO22

The full name of the registered participant should be mentioned on the bank transfer order. All the banking fees must be paid by the participants.

#### Cancellation and refund

Participants who have paid the registration fee but cancel their participation will be reimbursed as follows:

- 100%, minus the bank charges, if the cancellation is announced before June 1<sup>st</sup>;
- 50%, minus the bank charges, if the cancellation is announced before June 15<sup>th</sup>;
- No refund will be possible after June 16<sup>th</sup>.

#### **ACCOMODATION**

Please check the hotel website for details regarding the accommodation types and facilities at the conference hotel: <https://hotelalpin.ro/en/accommodation/>.

Other accommodation options are available in Poiana Brasov, Brasov city or around.

For special requirements, please contact us at [iclpr-st@inflpr.ro](mailto:iclpr-st@inflpr.ro).

#### **TRAVEL INFORMATION**

For information regarding transportation from Bucharest Henri Coandă Airport to Alpin Resort Hotel in Poiana Braşov, participants are kindly asked to consult the conference webpage: <https://iclpr-st.inflpr.ro/conference-venue/>

#### **SOCIAL PROGRAMME**

The Welcome reception will be organized on Monday, June 29<sup>th</sup> and the conference dinner on Thursday, July 2<sup>nd</sup>. Both events will take place at [Alpin Resort Hotel](#).

#### **PASSPORT AND VISA**

Citizens having passports from certain countries may need a visa to enter Romania (please check on <http://www.mae.ro/en>). Upon request, an official invitation letter can be provided by the local organizing committee ([iclprst@inflpr.ro](mailto:iclprst@inflpr.ro)).

## SPONSORSHIP

Sponsoring the 3<sup>rd</sup> ICLPR-ST (<https://iclpr-st.inflpr.ro/sponsors/>) offers an excellent chance to enhance your company's visibility, connect with potential clients and vendors, and gain insights into cutting-edge research across diverse fields, including laser, plasma, and radiation applications in industry, biology, medicine, environment, space science, and more. Please contact the organizers at [iclpr-st@inflpr.ro](mailto:iclpr-st@inflpr.ro) for details on sponsorship options.

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Laser, Plasmă, Radiație - Știință și Tehnologie

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Through this third edition, we continue our efforts to establish a lasting scientific tradition dedicated to laser, plasma, and radiation science. We look forward to welcoming participants to this new edition of the conference and to fostering a stimulating and productive scientific environment in Poiana Brașov.

Bogdana MITU, Valentin CRACIUN, Nicolaie PAVEL, Nicu SCARISOREANU  
Chairs of ICLPR-ST

- Updates will be regularly posted on the conference web site: <http://iclpr-st.inflpr.ro/> -