



Call for PAPERS

Final call



INTERNATIONAL CONFERENCE ON LIGHT MATTER INTERACTION & ULTRAFAST PROCESSES

1-4 MARCH 2024

Jointly organised by International Centre for Ultrafast Studies (ICUS), International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN), and School of Pure and Applied Physics (SPAP), Mahatma Gandhi University, Kottayam-686 560, Kerala, India

AIM OF THE CONFERENCE

Over the past decade, significant advancements have propelled the field of ultrafast phenomena to new heights. From enhancing our grasp of fundamental physics to driving innovations in photonics, materials science, and quantum computing, the study of light-matter interaction and ultrafast processes holds vast potential and is a swiftly evolving and thrilling field. The central objective of ICLMIUP 2024 is to furnish a comprehensive overview of the current status of developments in systems that encompass both light-matter interaction and ultrafast processes. This extends to the need for organisational principles, detailed material investigations, and the emergence of cutting-edge sources for generating ultrashort pulses of light, including technologies like high-harmonic generation, few-cycle optical pulses, x-ray-free electron lasers, and new material development. Another integral aim of ICLMIUP 2024 is to establish an international forum for gathering the community of scientists, engineers, and researchers in a unified framework, fostering novel ideas and collaborations in understanding the physics of light-matter interaction and ultrafast phenomena. Hence, ICLMIUP 2024 will be a platform for younger minds to interact with the pioneers of this field, the hot topic of discussion currently in the limelight of the Nobel Prize in Physics 2023.

CONFERENCE ORGANISATION


PATRON: Prof. (Dr.) C.T. Aravindakumar
Hon.Vice-Chancellor, Mahatma Gandhi University

CHAIRMAN & CONVENOR
Prof. (Dr.) Nandakumar Kalarikkal
Hon.Director, International Centre for Ultrafast Studies (ICUS)
Mahatma Gandhi University

Co-CONVENOR
Dr. Parvathy Nancy
International Centre for Ultrafast Studies (ICUS)
Mahatma Gandhi University

LOCAL ADVISORY COMMITTEE

Prof. (Dr.) Sabu Thomas
Former Vice-Chancellor, Hon. Director, IIUCNN, SNSNT & SEM
Mahatma Gandhi University
Prof. (Dr.) Cyriac Joseph
Director, SPAP, Mahatma Gandhi University
Dr. Sreekala M S
Joint Director, IIUCNN & SNSNT Mahatma Gandhi University

 School of Pure and Applied Physics
Mahatma Gandhi University, PD Hills PO, Kottayam Kerala

SCOPE OF THE CONFERENCE

- Ultrafast Processes
- Ultrafast Spectroscopy
- Ultrafast Photochemistry
- Light Matter Interaction
- Novel Sources of Lasers
- Imaging, Communication and Defense Applications
- Nonlinear Optics
- Laser Plasma Interaction
- Laser Ablation
- Laser Material Processing
- Spin Lasers
- Lasing from Disordered Systems
- Attophysics
- Ultrashort Laser Pulse Technologies
- Medical Photonics
- Novel Nanomaterials
- Additive Manufacturing
- Computational/ Theoretical Modeling

REGISTRATION FEE

- *International delegate: € 400
- *International student: € 300
- *Accompanying person: € 300
- Indian delegate: ₹ 5000
- Student delegate from India: ₹ 3000
- Accompanying person: ₹ 2500
- Industrial delegate: ₹ 10000

Early bird registration

- *International delegate: € 300
- *International student: € 275
- *Accompanying person: € 275
- Indian delegate: ₹ 4000
- Student delegate from India: ₹ 2500
- Accompanying person: ₹ 2000
- Industrial delegate: ₹ 9000

As a registered delegate, you'll receive a conference kit, complimentary meals, a boat cruise on Vembanadu Lake, and a conference banquet featuring traditional Kerala cultural programs

* In the case of foreign delegates, registration fee covers accommodation also

The conference registration fee may be sent in favour of:

The Director, University Centre for Ultrafast Studies (UCUS)

Mahatma Gandhi University

Account No: 42391888610

IFSC CODE: SBIN0070669

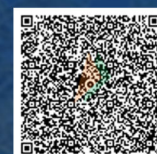
Branch Code :70669

Payable at State Bank of India, MG University Campus, Kottayam, Kerala-686560, India (Full address of the sending person should be included during money transfer)

 FOR MORE INFORMATION

<https://iiucnn.in/conferences/iclu2024> www.mgu.ac.in

Email: iclmiup@gmail.com



KEY DATES

Abstract Submission Deadline
25 February 2024

Acceptance Intimation
27 February 2024

Registration Deadline
28 February 2024

Pre-conference Workshop
1 March 2024

Conference
2-4 March 2024



SPEAKERS GALLERY

Prof. Carlo Spartaco Casari
Politecnico di Milano, Italy



Prof. Olivier J.F. Martin
EPFL STI IMT NAM, Switzerland



Dr. Murukeshan Vadakke Matham
Nanyang Technological University, Singapore



Prof Jacob Philip
Former Professor Emeritus at Cochin University of
Science and Technology & Visiting Professor
Mahatma Gandhi University, India



Prof. M K Jayaraj
Hon. Vice Chancellor, University of Calicut, India



Prof. Didier Rouxel
Institute of Jean Lamour, France



Dr. Erik Dujardin
French National Centre for Scientific Research, France



Prof. Alex Schechter
Department of Chemical Sciences, Ariel University,
Israel



Prof. Reji Philip
Raman Research Institute, India



Prof. Soma Venugopal Rao
University of Hyderabad, India



Dr. Vandana Sharma
Indian Institute of Technology, Hyderabad, India



Prof. N. Sandhyarani
National Institute of Technology, Calicut, India



Prof. Rakesh K Vaid
University of Jammu, India



Prof. Anindya Datta
Indian Institute of Technology, Bombay, India



Prof. Gilles Lerondel
University of Technology of Troyes, France



Prof. P.M.G. Nambissan
Saha Institute of Nuclear Physics, DAE
Govt of India



Prof. Abhijit Saha
Former Director, UGC-DAE CSR, Kolkata
Visiting Professor, Mahatma Gandhi University, India



Dr. Isabelle Russier Antoine
Institut Lumière Matière, UMR5306 CNRS, France



Prof. Swapna S Nair
Central University of Kerala, India



Dr. Chaitanya Lekshmi Indira
Plaksha University, India



Dr. P. Prem Kiran
University of Hyderabad, India



Dr. Ravi A. V. Kumar
Institute For Plasma Research, India



Dr. Sai Santosh Kumar Raavi
Indian Institute of Technology, Hyderabad, India



Dr. Sivarama Krishnan
Indian Institute of Technology Madras, India



Dr. R. S. Jayasree
Sree Chitra Tirunal Institute for Medical
Sciences and Technology, India



Dr. Suchand Sandeep C. S
Manipal Institute of Technology, India



Prof C Vijayan
Honorary Professor, IIT Palakkad, India



Dr. Mukesh Jewariya
CSIR-National Physical Laboratory-New Delhi, India



Dr. Rajeev N. Kini
Indian Institute of Science Education
and Research (IISER), Thiruvananthapuram, India



Dr Anisha Gokarna
University of Technology of Troyes, France



Dr Jinto Thomas
Institute For Plasma Research, India



Dr. Akhilesh Kumar Mishra
Indian Institute of Technology Roorkee, India



Dr. Bojan Stojadinovic
Institute of Physics, Belgrade, Serbia



Dr Bhuvanesh Ramakrishna
Indian Institute of Technology Hyderabad, India



Dr. Novica Paunović
Institute of Physics, Belgrade, Serbia



Dr. Subramanyan Namboodiri Varanakkottu
National Institute of Technology, Calicut, India



Dr. Riju C Issac
Cochin University of Science & Technology, India



Mr. Jagadesh Obulapuram
Laser Science (I) Pvt. Ltd, India



Dr. Gayathri Bharathan
Indian Institute of Technology Delhi, India



Dr. Tapasi Sen
Institute of Nano Science and Technology, Mohali
India



Dr. Krishna Kanta Haldar
Central University of Panjab, India



Dr Anoop KK
Cochin University of Science & Technology, India



Dr.Sreekanth Perumbilavil
Nanyang Technological University, Singapore



Dr Isabelle Royaud
Institute of Jean Lamour, France



Dr Jemy James
WITec, Gmbh, Germany



Mr. Gregory Malinowski
Institute of Jean Lamour, France



Mr. Jon Gorchon
Institute of Jean Lamour, France



Mr. Anand V Vazhappilly
ATOS Instruments Marketing Services, India



Mr. Vaidotas Stalilionis
Light Conversion, Lithuania



Dr P T Ajith Kumar
Light Logics Holography & Optics Pvt. Ltd, India



Dr. Ponnas Sathiyathan
Korea Advanced Institute of Science
and Technology (KAIST), Republic of Korea



ACCOMMODATION

Accommodations for students and young researchers will be provided in the limited dormitory facilities available in the university guest house on a first-come, first-served basis. Other delegates and participants can contact the hotels near the university for their accommodations, as suggested in the conference

CONFERENCE HIGHLIGHTS

- Special focus on Ultrafast Phenomenon
- Prominent speakers and invitees from across the world
- Paper presentation in more than 10 thematic Areas
- Keynote, plenary, contributory and short invited lectures
- Poster presentation
- Industry-academia conclave
- Brain-storming sessions
- Young researcher awards
- Conference publication
- Follow-up programs

INDUSTRY- ACADEMIA COLLABORATIONS

We aim to facilitate robust business-to-business interactions among numerous companies from both India and abroad. This endeavor seeks to foster new collaborations, joint ventures, and technology transfers among multinational corporations, medium-scale enterprises, and small-scale industrial units worldwide.

EXHIBITION

A prominent exhibition featuring diverse companies within the subject field is scheduled. Additionally, we will extend invitations to ancillary units and companies specializing in supplying key characterization instruments.

ABOUT ICUS

This interdisciplinary research center specializes in ultrafast spectroscopy, photo-physics, and photochemistry, conducting cutting-edge theoretical and experimental investigations into photo-excited state dynamics in functional materials. The center explores applications of pulsed lasers in material processing, femtosecond Laser Induced Breakdown Spectroscopy (fsLIBS), water splitting, optical diagnostics, light-activated advanced cancer therapies, and the laser-assisted fabrication of renewable energy materials. Recognizing the infancy of photon-based technologies in India, the center seeks to contribute to the country's economic and social potential by supporting collaborations between national and international institutions. By generating human resources in ultrafast laser science, the center strives to address the nation's future needs in Photonics, Energy, Communication, and Healthcare.

ABOUT KERALA

Kerala, known as 'God's Own Country,' is a stunning state in southern India. Its lush greenery, backwaters, and beaches attract visitors worldwide. The region boasts diverse landscapes, from mountains to coastlines. Kerala's rich heritage, festivals, and delicious cuisine add to its charm. Whether relaxing on a houseboat or exploring wildlife sanctuaries, Kerala offers unforgettable experiences.

In view of your excellent contributions to the field of light matter interaction science, we would like to welcome you to give an expert talks and poster presentations at the conference. The scientific committee of the conference is aware of your published works in this field.

We would appreciate if you could submit a one-page abstract of the talk or presentation (in the MS Word format) at the earliest to the conference [email:iclmiup@gmail.com](mailto:iclmiup@gmail.com) or website <https://iucnn.in/conferences/iclu2024>.

The Young Researcher Award and Best Poster Award will be presented during the event, distinguishing outstanding achievements among short-invited talks and student posters. An international jury will meticulously assess both the posters and short-invited talks, recognizing excellence and innovation in the contributions made by the participating students.

PUBLICATION OF RESEARCH PAPERS

The selected papers will be published in peer reviewed International Conference Proceedings. The details will be announced soon. We also have got acceptance from renowned publishers and will publish one book based on this conference. All the papers for the journals and for the books will be peer reviewed by international experts before publication. The proposed book and journals are indexed by Scopus database.

ABOUT MAHATMA GANDHI UNIVERSITY

Established on October 2, 1983, Mahatma Gandhi University in Kerala caters to the higher educational needs of Central Kerala through its diverse programs at various academic levels. With 17 University Departments, 1 International and Inter-University Centre, and numerous affiliated colleges and research centers, the university offers research programs in forty disciplines, collaborating with renowned international institutions. The Erudite Scholar in Residence Programme facilitates direct interactions with Nobel Laureates. Notably, MGU has earned accolades, ranking 34th in the National Institution Ranking Framework (NIRF 2018), 11th in IndiaToday-MDRA Ranking 2018, and securing the 30th position in the recent NIRF ranking (April 2019). Additionally, CSIR and NISTADS have recognized the university's intellectual productivity and h-index of the Science faculty, further affirming its academic excellence.

