



Indo-French Workshop on Disruptive Nano-photonics



Organized by



CSIR-Central Scientific
Instruments Organisation
Chandigarh, India
&
Institut Fresnel
Marseille, France

Funded by



CEFIPRA

June 14-16, 2023

ABOUT THE ORGANIZERS:

CSIR-Central Scientific Instruments Organisation, Chandigarh, India

CSIR-CSIO is a constituent unit of the Council of Scientific and Industrial Research (CSIR), which is India's largest research and development organization. CSIO has been involved in the design and development of a wide range of scientific and industrial instruments in the niche areas of optics and photonics, agrionics, sensors, energy management, biomedical, and material science.

CNRS - Institut Fresnel, Marseille, France

The Fresnel Institute is supported by several institutions, Aix-Marseille Université, CNRS and Centrale Marseille. With about two hundred persons working in the institute, the research topics cover four axes: electromagnetic modelling and simulation, nanophotonics and optical components, information processing and random waves, and advanced imaging and life science. The synergies between these axes are very strong and give rise to novel projects, often at the frontier between different disciplines. These projects can be fundamental or applied, with a strong potential for innovation.

COMMITTEE:

Patron:

Prof. S. Anantha Ramakrishna, Director CSIR-CSIO

Conveners:

Dr. Sanjeev Soni, Sr. Principal Scientist, CSIR-CSIO

Dr. Jerome Wenger, CNRS research director,
Institut Fresnel

Dr. Samir K Mondal, Sr. Principal Scientist, CSIR-CSIO

Local Organising Committee

- Dr. Sudipta Sarkar, Sr. Pr. Scientist
- Dr. Umesh Kumar Tiwari, Sr. Pr. Scientist.
- Dr. Rajkumar, Pr. Scientist.
- Dr. Bhargab Das, Pr. Scientist
- Dr. Sanjit Debnath, Sr. Scientist
- Dr. Nalini Pareek, Sr. Scientist
- Dr. Satya Pratap Singh, Scientist
- Dr. Dhairya Singh Arya, Scientist
- Dr. Vinod Parmar, Scientist
- Ms. Ishani, Scientist
- Dr. Vinod Mishra, Sr. Technical Officer
- Mr. Omendra Singh, Technical Officer



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Speakers



Alexandre Baron
Bordeaux university
Topic: Plasmonic clusters: Kerker regime and homogenization problems



Amitava Patra
Institute of Nano Science and Technology Mohali
Topic: Exciting Nanomaterials for Photonic and Optoelectronics



Andrei V Kabashin
LP3 Aix Marseille Université
Topic: TBA



Bijoy K Das
Indian Institute of Technology Madras
Topic: Silicon Photonics: Technology and Applications


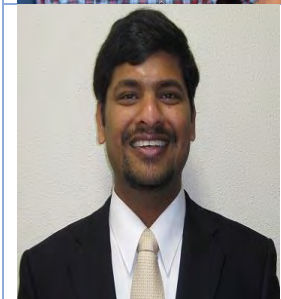




Benjamin Vest
Institut d'Optique – Palaiseau
Topic: Light-emitting metasurfaces



Dibakar Roy Chowdhury
Mahindra University, Hyderabad
Topic: Terahertz Plasmonic Metamaterials

	<p>Erik Dujardin Institut Carnot de Bourgogne - Dijon Topic: Interconnect-free multibit arithmetic and logic units in reconfigurable plasmonic cavities</p>
	<p>George Thomas Indian Institute of Science Education and Research Thiruvananthapuram Topic: Plasmon Assisted Emission and Raman Signal Enhancement: From Ensemble to Single Particle investigations</p>
	<p>Kaizad Rustomji Insitutit Fresnel Marseille Topic: Microwave analogues for dipole-dipole interactions</p>
	<p>Kamal P Singh Indian Institute of Science Education and Research Mohali Topic: Nanoprocessing and heterostructuring silk with femtosecond pulses</p>
	<p>Nikhil Ranjan Das University of Calcutta, Kolkata Topic: Quantum Dot Photonics for Biosensing and Bioimaging</p>
	<p>Quanbo Jiang Université de technologie de Troyes Topic: Go beyond the limitations of optical tweezers for trapping objects from micron to nanosize</p>

	<p>R S Jayasree Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum Topic: Optical imaging and biophotonics sensors</p>
	<p>Rajesh Sharma Guru Ghasidas Vishwavidyalaya, Bilaspur Topic: Efficient Designs of Terahertz Quantum-Cascade Lasers</p>
	<p>Rajesh V. Nair Indian Institute of Technology Ropar Topic: Nanophotonics</p>
	<p>Ramachandrarao Yalla University of Hyderabad, Hyderabad Topic: Nanophotonic platforms for Quantum Photonics</p>
	<p>Renu John Indian Institute of Technology Hyderabad Topic: Nano-Microscopy-Biological applications</p>
	<p>S. Anantha Ramakrishna CSIR-Central Scientific Instruments Organisation Chandigarh Topic: IR Metamaterials</p>



Samir K Mondal
Central Scientific Instruments Organisation Chandigarh
Topic: Optical nanotip and morphology dependent resonance



Sanjeev Soni
Central Scientific Instruments Organisation Chandigarh
Topic: Plasmonic photothermal phenomenon in biomedical applications



Sushil Mujumdar
Tata Institute of Fundamental Research, Mumbai
Topic: Enhanced functionality of localization-based lasers using exceptional points



Tapajyoti Das Gupta
Indian Institute of Science Bangalore
Topic: Self assembled glass and liquid metal particles for large area metasurfaces and reflective displays



Tapasi Sen
Institute of Nano Science and Technology Mohali
Topic: Nano Biophotonics - single molecule imaging