



Dr. Vishwanath Karad
**MIT WORLD PEACE
UNIVERSITY** | PUNE
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS



IOP
Publishing
Publication Partner

School of Physics
Organizing an online

INTERNATIONAL CONFERENCE

On

CURRENT TRENDS IN PHYSICS AND PHOTONICS (ICCTPP) - 2022

9 June to 11 June, 2022

THEME

Recent advancement and trends in Physics, Photonics, Optics, Material Science and Nanotechnology.



icctpp.mitwpu.edu.in

About MIT-WPU

Dr. Vishwanath Karad MIT World Peace University – Pune promotes the “Culture of Peace” through Value-based “Universal Education System”, with a firm belief that “Union of Science and Spirituality alone will bring peace to mankind”.

With the sole objective of meeting the long felt need for a centre of scientific and educational research, which would meet the challenges of the present and the future, MIT Group of Institutions was established in 1983 as a society and charitable trust. Since then, the MIT Group of Institutions has grown exponentially and has made a strong impact in the field of education throughout the country and is known amongst the top education institutions in India. The Founders of MIT Pune, have embarked upon a journey to make their vision of 'Attaining World Peace through Education' a reality. A step towards this vision has been that MIT Group of Institutes, Pune has been accorded the status of University by name Dr Vishwanath Karad MIT World Peace University, Pune (MIT-WPU). Dr Vishwanath Karad MIT World Peace University is established under Govt. of Maharashtra Act No. XXXV 2017 and is recognized by UGC. The MIT-WPU provides education in the fields of Science, Engineering, Medicine, Pharmacy, Marine Engineering, Insurance, Distance Education, Telecom Management, Lighting, Design, Food & Technology, Retail Management, Master in Business Administration, School of Government and School Education. At any given point of time, more than 50,000 students are pursuing various courses across 65+ Institutes of MIT World Peace University through campus programs.

About School of Physics

The Physics department at MIT Pune, established in 1983, is one of the core science departments, now it has been transformed to the School of Physics since 2017 under MIT World Peace University. The School offering M.Sc. Physics (Photonics) program which is a perfect blend of core Physics and Photonics. The School has launched some open electives and in due course, the School also en-visages introducing UG programs in Pure and Applied Physics.

The School has highly qualified and experienced faculty members catering services to various schools under MIT World Peace University. Faculties are well engaged in research. Our research spans over Condensed Matter Physics, Photonics, Nonlinear Optics, Radiation Physics, Laser, Organic Electronics, Nanomaterials, Thin films and Computational Physics.

Faculty members are associated for research with reputed organizations - Queensland University of Technology, Australia; Singapore University of Technology and Design, Singapore; Cinvestav University, Mexico; Dalian University of Technology, China; Tokushima University, Japan; Bhaba Atomic Research Centre, India; National Chemical Laboratory, India; CMET-Pune, India; SPP University-Pune, India; Banaras Hindu University, India; IIT Delhi, India.

About the Conference

School of Physics, MITWPU Pune, is organizing an International conference on Current Trends in Physics and Photonics (ICCTPP - 2022). Physics is the language of nature and hence quite fascinating in all sciences. The themes of the conference have

been carefully curated to reflect the upcoming and emerging research areas of core Physics as well as Photonics. Photonics has become an attractive subject for research in the recent times due to its diverse applications in telecommunication, networking, data storage etc. There is an emphasis on advanced photonics in this conference which is reflected in the themes of lasers, nonlinear optics, photonic materials, optoelectronics among others while the conference gains its inclusive character in physics with the inclusion of topics in condensed matter physics, nonlinear dynamics, nuclear physics, plasma physics, astrophysics, etc. ICCTPP – 2022 aims to bring together leading academicians, researchers, scientists, practitioners and professionals from both the industry and the academic background and provide them a platform to exchange their newest research findings, experiences and views on diverse areas of Physical Sciences. The conference will include keynote addresses, plenary talks, invited talks, oral presentations and poster sessions. This conference will also provide an opportunity for scholars, researchers, students and stakeholders to publish research in IoP : Journal of Physics proceedings.

Objectives of ICCTPP- 2022

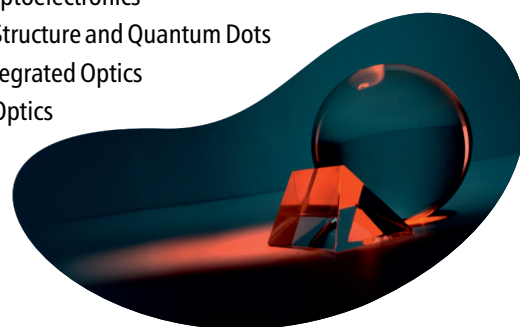
- To provide a perfect platform for students, research scholars, faculties, scientists and industry personnel from the domain of Physics, Optics and Photonics to express their innovative thoughts and unique research ideas at a global platform, while exchanging scientific knowledge among participants.
- To foster interactions between participants from different regions and between seasoned scientists/faculties and students and scientists/researchers at an early stage of their careers.
- To provide the opportunity for scholars, researchers, students and stakeholders to publish their research work in peer reviewed international conference series Journal.

Target Audience

UG students, PG students, Research Scholars, Faculty Members, Scientists and Industrial experts.

Conference Subject Categories Include, but are not limited to Laser/Optics/Photonics

- Laser Science and Technology
- Laser Spectroscopy and Microscopy
- Biomedical and Therapeutic Laser Applications
- Attosecond Science and Technology
- Nanophotonics
- Photonics and Optoelectronic Materials and Devices
- Green Photonics and Smart Lighting
- Solar Energy/ Photovoltaic Technology
- Integrated Optoelectronics
- Plasmonics Structure and Quantum Dots
- Fiber and Integrated Optics
- Non-Linear Optics



Physics/Material Science/Nanotechnology

- Novel Conductors, Insulators and Semiconductors Materials and Devices
- Organic/Inorganic/Hybrid Materials and Devices
- Glass, Ceramics, Polymer Compounds
- Computational Physics
- Nano-Materials and Nano-Engineering
- Low dimensional and 2D materials
- Non-Linear Dynamics and Chaos
- Superconductivity, Magnetism and Spintronics
- Nuclear and Particle Physics
- Astronomy and Astrophysics
- Plasma Physics
- Interdisciplinary Topics Relevant to Condensed Matter Physics
- Medical Physics
- Biophysics

Speakers of the Conference

Name	Designation
Dr. Chennupati Jagadish	Distinguished Professor and Head, Semiconductor Optoelectronics and Nanotechnology Group, Australian National University, Australia
Dr. Achanta Venugopal	Director, CSIR-National Physical Laboratory, New Delhi, India
Dr. Prasanta Kumar Datta	Senior Professor and HoD, Department of Physics, IIT Kharagpur, India
Dr. Prashant Sonar	Professor, School of Chemistry and Physics and Centre for Material Science, Queensland University of Technology, Australia
Dr. Almantas Pivrikas	Senior lecturer, School of Engineering and Information Technology, Murdoch University, Australia
Mr. Milind Deore	Director, Bureau of Energy Efficiency, Ministry of Power, Govt of India, New Delhi, India
Dr. Bipin Joshi	Senior Scientist, Department of Science & Technology (DST), New Delhi, India
Dr. K. V. Sreekanth	Scientist-II, Institute of Materials Research and Engineering (IMRE), A-Star, Singapore
Dr. Nayana Vaval	Principal Scientist, CSIR-National Chemical Laboratory, Pune, India
Dr Dmitry Vasilyev	Research Scientist, Johannes-Gutenberg University of Mainz, Germany

General Guidelines

- It is a fully online conference
- At least one author has to register in the conference for the paper to be included in the conference proceedings. Only registered authors will be allowed to present papers and will be given the conference certificates.
- Nobody will be allowed to make more than two presentations during the conference. This is done to ensure diversity and inclusivity of more active participants in the conference.
- Authors of accepted Poster presentations will have to submit a pre-recorded video and PowerPoint slides (saved as PDF) of their presentation in advance of the conference. The pre-recorded video and slides will be available for the attendees in the conference portal. During the poster session, you will be able to have live discussion with attendees to explain and answer questions.

Manuscript Submission and Publication Process

After the acceptance of the Oral/Poster Presentation, Authors will be intimated to format their manuscripts in the appropriate Proceedings format. For detailed guideline, please visit the conference website.

- Interested participant's accepted paper (Oral/Poster Presentation) will be published in Journal of Physics - Conference Series (Scopus indexed), IOP Science Publishing.
- It may be noted that the Similarity Index of submitted research article should be below 20%.
- Paper will be accepted for publication through peer review process

Any paper which does not follow the guidelines may not be considered for publication in the conference proceedings.

Registration Fees

National Delegates	
Participation (without publication)	INR. 800/-
PG Students, Research Scholar and Faculty (with publication)	INR. 4,900/-
Industry Personnel (with publication)	INR. 6,500/-

International Delegates	
Participation only	USD 50
Post Graduate Students	USD 100
Faculty and Research Scholar	USD 150
Industry Personnel	USD 250



**SCAN FOR
REGISTRATION**

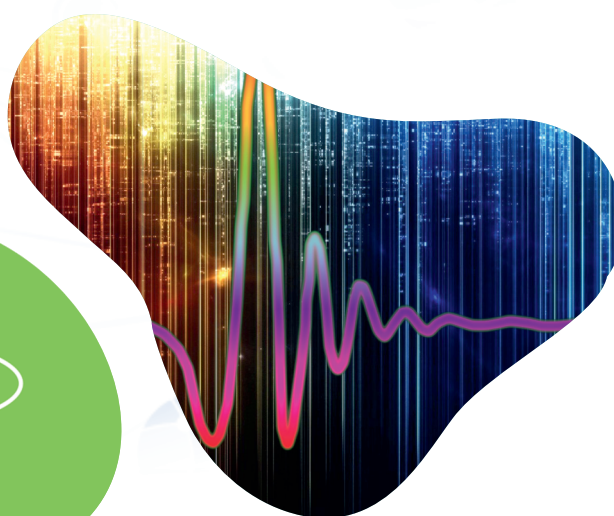
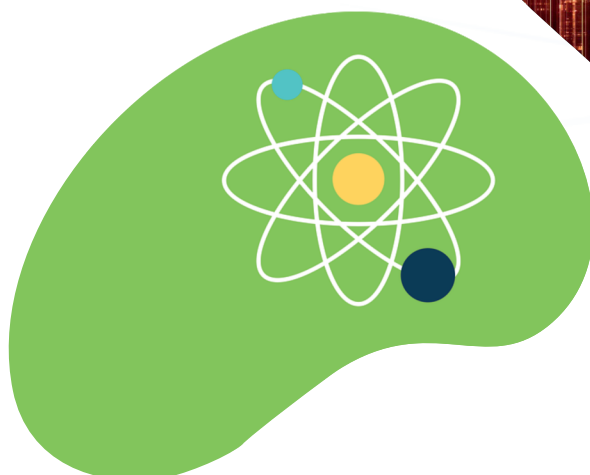
Link for ICCTPP-2022 Registration :

<http://icctpp.mitwpu.edu.in/registration.html>

The (non-refundable) registration fee has to be paid through the registration link provided. The registration fee remittance proof (with online transaction number) needs to be uploaded during the manuscript submission process.

Registration

- Call for Abstracts and Registration opens: 12 February 2022 onwards
- Last Date for Abstract Submission: 11 April 2022
- Acceptance Notification: 21 April 2022
- Last Date of Registration: 25 May 2022
- Last Date for Full Paper Submission: 25 May 2022



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