IWAMA 2021
International Workshop On Advanced Materials and Applications
1st and 2nd March, 2021
Department of Physics, National Institute of Technology, Tiruchirappalli-620015, India.

SPIE. OSA The Optical Society

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NITT Student Chapter
In NITT, the student chapters of OSA and SPIE, existing for a better part of two decades, channel a host of activities like lectures, conferences, symposiums and workshops where reowned scientists around the globe are invited to deliver talks. We organize several outreach programs for school students located in rural places with an aim to create enthusiasm for science and technology. We also reach out to public by organizing science fairs and events to promote science among common people.

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SCOPE
IWAMA 2021 is an International Workshop organized by NITT-SPIE and NITT-OSA Student Chapters to commemorate National Science Day. Through this two-day virtual event, eminent scientists,researchers, and students shall congregate and partake in exchanging innovative ideas on Advanced Materials and Applications. IWAMA '21 aims to furnish a magnificent platform for young researchers and avid students to attend the lectures by distinguished national and international speakers and extend their network by participating in the scientific discussions on current trends and challenges in material science. The lectures and presentation topics encompass lasers,optoelectronics, nanomaterials, magnetic materials and biomaterials.

All UG, PG, Ph.D Scholars and Faculty members can register for the workshop. Register before 26th Feb 2021

REGISTER NOW! FOR FREE

SPEAKERS

Dr. Balachandran Jeyadevan received his doctoral degree from Tohoku University, Japan in 1994. Currently, he is the chair of department of Material Science, the University of Shiga Perfecture. He has published above 200 high-impact articles, review papers and penned five books. His research work encompasses development of technology for material purification, alloy nanowires/particles for bio-sensing therapeutics, transparent conductive films, fuel cell electrodes. He is specialized in developing polyol, alcohol based methods to synthesize size and morphology controlled magnetic nanostructures.

Dr. Vincent Daria obtained his doctorate from Osaka University, Japan and post doctorate in dynamic phase-only spatial light modulation from Risoe National Laboratory, Denmark. Dr. Daria is now the leader of the neurophotonics research, in John Curtin School of Medical Research, ANU of Health and Medicine. His expertise includes lasers, quantum neuroscience, classical, physical and non-linear optics. In IWAMA'21, Dr. Daria will shed light on overview of decoding the computing power of neurons in the mammalian brain using custom-built holographic two-photon laser microscope.

Dr. Arti Agrawal joined UTS in January 2018 as an Associate Professor in school of electrical and data engineering within the Faculty of Engineering and IT. She was a Royal Society Postdoctoral fellow and her PhD was on modelling methods for optical components at IIT Delhi in 2005. Dr. Agarwal's interest lie in optics, modelling of photonic components such as solar cells, optic fibers, sensors, lasers etc. She has written a book on Finite Element Method (FEM) and edited a book on trends in computational photonics In this workshop, she will talk about *'Epitaxial graphene coated silicon carbon nanowires for mid-infrared nanophotonics'.*

Dr. Ayan Banerjee currently works as a Professor of Physics at IISER Kolkata. A Scientist, but he is also involved in Bengali and English theatre in the capacity of playwright, director and actor. He obtained his PhD from Indian Institute of Science, Bengaluru in precision atomic spectroscopy. Later, he joined as a research scientist in General Electric global research, Bangalore, India. He is one of the founder directors of the Research Innovation and Entrepreneurship (RISE) foundation, IISER Kolkata to incubate deep-science based startups. He holds over 40 publications in peer reviewed journals and 19 patents. In IWAMA'21, he will be lecturing on *'Microbubble lithography: The road towards patterning everything mesoscopic'.*

'Reflect Your Knowledge' - A paper presentation competition for UG and PG students

Presentation Themes

1. Advancements in day-to-day optics
2. Role of nanomaterials in cosmetics
3. Green technologies and materials for efficient energy harnessing, transport and storage
4. Tackling climate change by employing smart materials
5. Frontiers in space materials
6. Fusion power generation- A hunt for materials to confine sun

Note:

*Participants are requested to upload the abstract of their presentation in the google form link mentioned below.
*The abstract should not exceed 500 words.
*The presentation should be of 8 minutes followed by 2 minutes discussion

CASH PRIZES!

Last date to submit abstract: 20th Feb, 2021
Announcement of selected abstracts: 22nd Feb, 2021

Register at: https://cutt.ly/pkKHLcX