



NATIONAL WORKSHOP ON CONTEMPORARY PHYSICS: LIGHT PHENOMENON AND APPLICATIONS

(December 11-12, 2018)

Jointly organized by

**Department of Physics and Materials Science and Engineering,
Jaypee Institute of Information Technology, Noida, (UP)**

and

Indian Association of Physics Teachers (IAPT), Kanpur, (UP)



VENUE:

**Jaypee Institute of Information Technology, Sector 128,
Noida 201304 – U.P.**

Tel: 0120-4195800, Website: www.jiit.ac.in

Central Theme of the Workshop: Optical systems are ubiquitous in modern society with an ever-increasing number of applications covering medical sciences (vision technologies, surgical instrumentations, medical imaging), spatial exploration (telescopes, lenses, spectrometers) telecommunications (photonics and fiber optics), information processing (quantum computing), industry (from cutting, welding to precision metrology) and military and weaponry technology to name but a few examples. Furthermore, laser and optical technology are in general absolutely essential to performing applied research in areas such as biology

and chemistry providing fundamental analysis tools. The success of optical systems and technologies in high-end scientific research has also found its way into everyday consumer products such as printers, display, discs, cameras and eyeglasses, not to forget that optical fiber is crucial to telecommunications in general and internet in particular. It has become an essential part in the development of advances in optical sciences and optoelectronic industry. The workshop aims to provide a broad overview of basic concepts related to Optoelectronics, Photonics and Metamaterials. The ultimate objective is to promote awareness about recent trends in these areas among students, researchers, industry personals and faculty/scientists from colleges, institutes and universities/research labs. This workshop is also aiming to improve the quality of physics teaching and learning process.

DEPARTMENT OF PMSE

The Physics and Materials Science & Engineering (PMSE) department offers Physics and Materials Science courses to various B.Tech. programs of the Institute. The department also runs M.Tech. program in Materials Science and Engineering and PhD in various research fields. The department is actively involved in research areas of Photonics, Opto-electronics and Metamaterials, Quantum optics, Quantum information and computation, Atomic, Molecular and Plasma Physics, Nanomaterials, Solid State Ionics, Spintronics, Advanced Multifunctional Materials.

Who can participate?

The workshop is open to all engineering and science graduates and research scholars / Faculty members / Scientists / R&D organizations.

Paper Submission: One page abstract (in the prescribed format) on any topic which is under the theme of workshop should be submitted through e-mail: nwcp.jiit128@gmail.com. Full paper after review shall be considered for publication in the IAPT bulletin after the workshop.

Registration: Registration will be done online or by e-mail to nwcp.jiit128@gmail.com in the prescribed format. Registration process will start from November 26, 2018.

To download Registration form click here

<https://goo.gl/forms/xOna9iqFW52cDRKN2>

To download manuscript template use this link

<https://docs.google.com/document/d/1Yg3A2qN-7geHRxYtIel-YfXITd1EWZ06J-tfDs0eibs/edit?usp=sharing>

To download Abstract format use this link

<https://docs.google.com/document/d/18eGcNqqUfYdLwf4HD66EkgsElXcMC5g7mwbu2Wexl0U/edit?usp=sharing>

Mode of Presentation: Either oral or Poster presentation (in the prescribed format)

Important Dates: Last date for Registration and for advance booking of accommodation: December 05, 2018

Online Full Manuscript Submission opens	November 13, 2018
Online Full Manuscript Submission close	November 30, 2018
Acceptance of Full Manuscript	December 05, 2018

Registration Fee

Industry personnel	INR 2000/-
Academician	INR 1000/-
Research Scholars/Students	INR 500/-

Participants can pay the fees either by demand draft or by cash (at the time of registration). Demand draft should be made in favour of “Jaypee Institute of Information Technology”, payable at NOIDA. **The discount of 50% in registration fee will be applicable to IAPT Life members.**

Accommodation and support

All the participants would be provided tea/lunch on each day of the workshop. Limited paid accommodation may be available on request on first come first served basis.

Contact Details:

Prof. S. C. Katyal 0852793682 Dr. Suneet K. Awasthi 09899091953

Dr. Prashant Chauhan 08585956724

Email-Id: nwcp.jiit128@gmail.com

How to reach

Metro: The stations close to the campus are Okhla Bird Sanctuary, Noida and Botanical Garden, Noida.

Railways: Hazrat Nizamuddin, New Delhi Railway Station and Old Delhi railway station connect Noida to the Indian railway network.

Cabs: Ola and Uber are frequently available at above places (**where to or drop at: JIIT Sector-128 Noida**)

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Hon'ble Shri Jaiprakash Gaur ji

Hon'ble Shri Manoj Gaur ji

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Vice Chancellor, JIIT
- Prof. H. O. Gupta
Director, JIIT 128

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- Dr. Dinesh Tripathi
- Dr. Manoj Tripathi

Distinguish Speakers

Prof. D. N. Payne: Professor Sir David Neil Payne CBE FRS FREng is a leading Professor at the University of Southampton and Director of the Optoelectronics Research Centre Southampton, UK. His pioneering work in fiber fabrication in the 70s resulted in almost all of the special fibers in use today including fiber lasers which are currently undergoing rapid growth for applications in manufacturing and defence.

Prof. Philip Russell: Prof Philip Russell is Director at the Max-Planck Institute for the Science of Light in Erlangen, Germany and holds the Krupp Chair in Experimental Physics at the University of Erlangen-Nuremberg. He has over 600 publications and is co-inventor on 37 disclosures or patents covering many aspects of photonics.

Prof. Wolfgang Freude: He is Ausserplanmäßiger Professor in Institute of Photonics and Quantum Electronics, KIT, Germany. He has more than 290 publications in international journals of repute and conference proceedings. He has published 6 books and delivered more than 410 lectures in Germany and abroad.

Prof. S. Anantha Ramakrishna: He is Professor in Department of Physics, Indian Institute of Technology, Kanpur, India since March 2012. He has established Metamaterials and Plasmonics Laboratory in IIT Kanpur. He has more than 100 research publications in the international journal of repute.

Dr. Tobias A.F. König: He is Freigeist-Fellow and Junior Group Leader in Kings Lab since August 2017 and Leibniz-Institut für Polymerforschung Dresden, Germany. He has more than 800 citations and has expertise in optical characterization and modeling.



Registration Form

NATIONAL WORKSHOP ON CONTEMPORARY PHYSICS: LIGHT PHENOMENON AND APPLICATIONS (JOINTLY ORGANIZED BY JIIT AND IAPT) (DECEMBER 11-12, 2018)

<https://goo.gl/forms/xOna9iqFW52cDRKN2>

Name (In capital letters).....

Designation.....

Affiliation / Institution.....

Specialization.....

Correspondence Address.....

E-mail

Mobile No.....

DD No.....Date.....

Accommodation Required: Yes / No

Date and time of arrival:

Date and time of departure:

Date

Signature