



43rd INTERNATIONAL NATHIAGALI SUMMER COLLEGE ON PHYSICS & CONTEMPORARY NEEDS, NATHIAGALI, PAKISTAN (16th - 28th July 2018)



PATRON-IN-CHIEF Mr. Muhammad Naem
CHAIRMAN ORGANIZING COMMITTEE Mr. Iqbal Hussain Khan
EXECUTIVE SECRETARY Dr. M. Javed Akhtar
SCIENTIFIC SECRETARY Dr. Manzoor Ikram
CO-SCIENTIFIC SECRETARY Dr. Ashfaq Ahmad
EXPECTED FACULTY:
ACTIVITY - I: (16th-21st July 2018) Applications of Synchrotron Light Sources Prof. Richard Catlow, FRS, UK Prof. Samar Hasnain, UK Dr. Paul Dumas, France Dr. Zahid Hussain, USA Dr. Josef Hormes, Canada Dr. Giorgio Paolucci, Jordan Dr. Giuliana Aquilanti, Italy Dr. Robert Rambo, UK
ACTIVITY - II: (16th-21st July 2018) SMRs & Innovative Hybrid Energy Systems Dr. Xing L. Yan, Japan Dr. Ibrahim Khamis, Austria Dr. Rizwan Uddin, USA Dr. M. Hadid Subki, Austria Dr. Francisco D'Auria, Italy Dr. Rayman Sollychin, China
ACTIVITY - III: (23rd-28th July 2018) Pulsed Power Technology & Applied Electromagnetics Dr. Zhanliang Wang, China Dr. Ying-Hui Liu, China Prof. Huang Hua, China Dr. Ge Yi, China Prof. Mirzahan Hizal, Turkey Dr. Song Falun, China
ACTIVITY - IV: (23rd-28th July 2018) Applications of Medical Physics & Biophotonics Prof. Habib Zaidi, Switzerland Dr. Rao Fawad Khan, USA Dr. Marco Petasecca, Australia Mr. Scot Dube, USA Mr. Charles Shang, USA Prof. Lothar Lilje, Canada Prof. Stephen G. Bown, UK Dr. Silke Krol, Italy Dr. Thomas Bortfeld, USA Dr. Naomi Matsuura, Canada
ACTIVITY - V: (23rd-28th July 2018) Pre-Disposal & Disposal of Radioactive Waste & Spent Fuel Management Ms. Li Tingjun, China Dr. Nicolas Solente, France Prof. Ryu Ho Jin, Korea Prof. Kim Yonghee, Korea Mr. Rosario Millet Romero-Grion, Spain Mr. Paul Standing, Austria Mr. Roberto Haddad, Argentina Dr. Andrey Vladimirovich Guskov, Austria Dr. Gerald Nieder-Westermann, Germany Prof. Willie Meyer, Austria Mr. Shen Lihua, China

International Nathiagali Summer Colleges (INSC) on Physics and Contemporary Needs have been organized every year since 1976. The idea of holding these Colleges came from the distinguished Nobel Laureate, Professor Abdus Salam who emphasized the vital need of communication, as well as for transferring and sharing scientific knowledge among the scientific community. The primary aim of the College is to break the isolation of the scientists of the developing countries by enabling them to interact with an international faculty. INSC provides an ideal interactive forum for open discussion of recent advancement in the cutting edge research among established scientists and early-career researchers in their respective fields; thereby instigating new proposals and ideas. Over the years, INSC has invited about 900 eminent scientists and keynote speakers from advanced countries including 07 Nobel Laureates from leading universities and research organizations. An interdisciplinary selection of speakers with more than 1100 foreign scientists from over 75 developing countries and about 9000 scientists from Pakistani R&D institutes and universities has brought together a diversified legion of academic scholars, planners and industry professionals; thus catalyzing new efforts of worldwide collaborations and networking with unrestrained scientific discussions amongst peers. The scientific activities of INSC aim at the broad coverage of topics at the frontiers of knowledge in Physics and allied sciences. Every year four to six subjects of current interest and their applications with special reference to needs of the developing countries are highlighted. This year the 43rd college is covering following topics:

- ACTIVITY - I: (16th-21st July 2018)**
Applications of Synchrotron Light Sources
- ACTIVITY - II: (16th-21st July 2018)**
SMRs & Innovative Hybrid Energy Systems
- ACTIVITY - III: (23rd-28th July 2018)**
Pulsed Power Technology & Applied Electromagnetics
- ACTIVITY - IV: (23rd-28th July 2018)**
Applications of Medical Physics & Biophotonics
- ACTIVITY - V: (23rd-28th July 2018)**
Pre-Disposal & Disposal of Radioactive Waste & Spent Fuel Management

- SEMINAR/ POSTER PRESENTATION**
Seminars or poster presentation will provide edge to candidates in selection
- WORKING LANGUAGE**
The working language of the college is English
- VENUE**
College will be held at National Center for Physics (NCP), Islamabad

FUNDING SUPPORT:
Boarding and lodging arrangements are the responsibility of the organizers. However, modest funds will be available to cover half of the travel expenses of some participants from the developing countries.

REGISTRATION:
Requests for participation should be made through INSC online application system. In case of student, form must also be signed by the Supervisor/HoD. The deadline for application is 31st March 2018. The selected candidates will be informed by 15th June 2018.

SPONSORS:
Regular sponsors of the College includes, Pakistan Atomic Energy Commission, Abdus Salam International Centre for Theoretical Physics (ASICTP), US National Science Foundation, Chinese Academy of Sciences, The European Organization for Nuclear Research (CERN) and National Centre for Physics.



DEADLINE
for receipt of participation requests
31st March 2018
For Application to Participate please visit the following weblink.
<http://www.paec.gov.pk/insc>
<http://www.ncp.edu.pk/insc>

FOR FURTHER INFORMATION, PLEASE CONTACT

DR. MANZOOR IKRAM Scientific Secretary National Inst. of Lasers & Optronics P. O. Nilore, Islamabad ☎: 92-51-9248670 ☎: 92-51-9217849 ✉: manzoor.ikram@ncp.edu.pk	DR. M. JAVED AKHTAR Executive Secretary Int. Nathiagali Summer College P. O. Box 1114, Islamabad ☎: 92-51-9204024 ☎: 92-51-9217849 ✉: insc@comsats.net.pk
--	--