



47th

INTERNATIONAL NATHIAGALI SUMMER COLLEGE ON PHYSICS & CONTEMPORARY NEEDS, ISLAMABAD, PAKISTAN

(20th June - 2nd July 2022)



PATRON-IN-CHIEF
Muhammad Naeem

CHAIRMAN ORGANIZING COMMITTEE
Masood Iqbal

EXECUTIVE SECRETARY
Manzoor Ikram

SCIENTIFIC SECRETARY
Shafqat Kraim

CO-SCIENTIFIC SECRETARY
Ashfaq Ahmad

EXPECTED FACULTY:

ACTIVITY - I: (20th - 25th June 2022)
Machine Learning and Artificial Intelligence

Muhayy ud Din, Spain
Atif Mashkoo, Austria
Rossi Setchi, UK
Muhammad Shafique, UAE
Andrew Ware, UK

ACTIVITY - II: (20th - 25th June 2022)
High Power Laser Systems and Applications

Damitri Batani, France
Do Young Noh, Korea
Kyunghwan Oh, Korea
Jens Osterhof, Germany
David Riley, UK
Luca Volpe, Spain

ACTIVITY - III: (27th June - 2nd July 2022)
Recent Trends in 3D Printing

Friedrich Bähr, Germany
Mustafa Günden, Turkey
Muhammad Arif Mahmood, Romania
Fatih Pitir, Turkey
Asif ur Rehman, Turkey
Metin Uymaz Salamci, Turkey

ACTIVITY - IV: (27th June - 2nd July 2022)
Advances in Quantum Technologies

Kevin O'Brien, USA
Luiz Davidovich, Brazil
Kadir Durak, Turkey
Kater Murch, USA
Irfan Siddiqi, USA
Shi-Yao Zhu, China
M. Suhail Zubairy, USA

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 the international faculty. INSC helps scientists to share knowledge and to learn from each other's experiences, an opportunity, unique in the third world has been provided by this college to younger and active scientists for establishing and renewing contacts with world renowned scientists. Over the years more than 1000 eminent scientists and speakers including 08 Nobel Laureates from leading universities, research centers and industries of advanced countries have lectured as faculty at INSC and shared their knowledge with more than 1150 foreign scientists from over 75 developing countries and more than 11000 scientists from Pakistani R&D institutes and universities. The scientific activities of INSC aim at the broad coverage of topics at the frontiers of knowledge in Physics and allied sciences. Every year three to five subjects of current interest and their applications with special reference to needs of the developing countries are highlighted.

1st WEEK (20th - 25th JUNE 2022)

ACTIVITY - I: (20th - 25th June 2022)
Machine Learning and Artificial Intelligence

ACTIVITY - II: (20th - 25th June 2022)
High Power Laser Systems and Applications

2nd WEEK (27th JUNE - 2nd JULY 2022)

ACTIVITY - III: (27th June - 2nd July 2022)
Recent Trends in 3D Printing

ACTIVITY - IV: (27th June - 2nd July 2022)
Advances in Quantum Technologies

SEMINAR/POSTER PRESENTATION

Seminars/poster presentations will provide edge to candidates in selection

WORKING LANGUAGE

The working language of the college is English

VENUE

Nathiagali, PAKISTAN

FUNDING SUPPORT:

Boarding and lodging arrangements are the responsibility of the organizers. However, modest funds may 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 15th April 2022. The selected candidates will be informed by 6th June 2022.

SPONSORS:

Regular sponsors of the College include, Pakistan Atomic Energy Commission, Abdus Salam International Centre for Theoretical Physics (ASICTP), Chinese Academy of Sciences and National Centre for Physics.



FOR FURTHER INFORMATION, PLEASE CONTACT

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DEADLINE

for the receipt of participation requests is

15th April 2022

For Application to Participate
please visit the following weblink.

<http://www.paec.gov.pk/insc>
<http://www.ncp.edu.pk/insc>