

The Sangam City

Prayagraj (formerly known as Allahabad) is a sacred city where three of India's greatest rivers meet and continue their journey. The city's original name, Prayaga, meaning "place of sacrifice," is derived from its location at the sacred union known as Sangam, where these three rivers converge. "Sangam" is a Sanskrit word that refers to a confluence. In Prayagraj, Triveni Sangam represents the confluence of two physical rivers, the Ganga and the Yamuna, as well as the invisible or mythical river Saraswati. This confluence point is a sacred place for Hindus, and taking a bath here is believed to cleanse one of all sins and free them from the cycle of rebirth (Moksha/Nirvana). Allahabad is considered to be the second-oldest city in India and is mentioned in many sacred Hindu scriptures.

Weather

The month of November marks the onset of winters in North India. The average temperature in Allahabad in November is fairly pleasant ranging from 20-25°C.

Places to Visit

The city of Prayagraj also called as "Kumbh Nagari" is one of the major tourist attractions in India drawing visitors from all over the world. Some of the major tourist attractions in the city include Allahabad Fort, situated on the bank of the river Yamuna, near Sangam. This magnificent fort was built by the great Mughal Emperor Akbar in 1583. Swaraj Bhawan and Anand Bhawan which were the legacies of Pt. Motilal Nehru, a freedom fighter and father of Pt. Jawaharlal Nehru. These buildings were dedicated to nation by them. Allahabad Museum, located near Chandra Shekhar Azad Park, preserves the paintings of Nicholas Roerich, terracotta figurines, Rajasthani miniatures, coins and stone sculptures from the 2nd century BC to present day.

Accommodation and Travel

The accommodation for the delegates will be arranged by the organizers. Accommodation for participants may be provided on request subjected to availability in the institute.

Organizing Committee

- **Patron:** Prof. Rama S. Verma, Director, MNNIT Allahabad
- **Chairperson:** Head, Department of Biotechnology, MNNIT
- **Treasurer:** Dr. Joybrata Mal, Department of Biotechnology, MNNIT Allahabad.
- **Organizing Secretary(s)**
 1. Dr. Manisha Sachan, Department of Biotechnology, MNNIT Allahabad
 2. Dr. Seema Nara, Department of Biotechnology, MNNIT Allahabad
- **Organizing Coordinator(s)**
 3. Dr. Rajitha B., Department of Computer Science and Engineering, MNNIT Allahabad
 4. Dr. Girijesh Kumar Patel, Department of Biotechnology, MNNIT, Allahabad
 5. Dr. Nirmal Ch. Roy, Department of Electronics and Communication Engineering, MNNIT Allahabad

Advisory Committee

1. Prof. K. Thangraj, Director, CDFD Hyderabad, India
2. Prof. Harpal Singh, Scientist Emeritus, IIT Delhi, India
3. Dr. Sandeep Vashist, Senior Global IVD Product Director, Fapon-Biotech Inc. Germany
4. Prof. Sudha Sharma, Harvard University, USA
5. Dr. Arindam Chakraborty, Deputy General Manager, Enzene-Biosciences, Pune, India
6. Prof. P. Hemachandra Reddy, TTUHSC, TX, USA
7. Dr. Ajay P. Singh, USA-MCI, AL, USA
8. Prof. Siddhartha S Ghosh, IIT Guwahati, India
9. Prof. Mukesh Kumar Pathak, IIT Roorkee, India
10. Prof. Cathal Gurrin, Dublin City University, Ireland

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Motilal Nehru National Institute of Technology Allahabad Prayagraj

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद प्रयागराज



ADT-2024

AN INTERNATIONAL CONFERENCE

ON

Advancements in Diagnostic Technologies: Global Healthcare Monitoring

November 15-17, 2024

Organized by :-

Department of Biotechnology

Motilal Nehru National Institute of
Technology (MNNIT) Allahabad

Prayagraj 211004 India



About the Institute

Motilal Nehru National Institute of Technology (MNNIT) Allahabad is an institute with total commitment to quality and excellence in academic pursuits. The institute has been granted the status of Institution of National Importance on AUGUST 2007. It was established as Motilal Nehru Regional Engineering College (MNREC) in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh. MNREC was transformed into National Institute of Technology a fully funded by Ministry of Human Resource

Development, Govt. of India on JUNE 2002. The institute offers B.Tech, M.Tech, Ph.D., M.C.A, M.B.A., (Mathematics and Scientific Computing) degrees in various disciplines of sciences, engineering, Technology and humanities.

About the Department

The Department of Biotechnology at MNNIT Allahabad was established as a new academic unit under Applied Mechanics Department in 2006 and gained shape as an independent administrative 'Department of Biotechnology' in April 2012. The Department comprises of expert faculty members from diverse areas, state-of-art modular laboratories to perform experiments and hosts extramural research projects from various government agencies viz. DST, DBT, UGC, MNRE, ICMR, etc. The department runs B.Tech, M.Tech and Ph.D. programs in Biotechnology.

Scope of the Conference

Diagnostic technology offers immense potential for innovating newer tools in healthcare monitoring. This technology lies at the intersection of biotechnology, information technology, and electronics. Increasing advancements in these branches of science are expected to transform the site of care and configuration of health care monitoring. Therefore, the conference intends to bring together the experts working around the globe in diverse fields towards improvised healthcare system. The scope of the conference covers various biomarkers, sensing technologies, platforms, miniaturized devices, sensitive signal readers, artificial intelligence and machine learning methods being developed or used for global healthcare system. This conference holds relevance and becomes significant in light of the increasing demand and importance of sensing technology towards improving health care facilities. Through various scientific sessions, the contributions of the various branches of science and technology in developing new generation sensing devices to address the emerging healthcare challenges and the needs associated with them would be discussed. The broad areas covered in this program includes but not limited to. Following themes are:

Themes

- **Biomarkers discovery**
- **Nanotechnology in diagnostic applications**
- **Omics technology as new dimension in disease diagnosis**
- **Advancements in cancer diagnostics**
- **Development of liquid biopsy-based assays**
- **Point of care and affordable diagnostics**
- **Miniaturization and automation of diagnostic methods**
- **Precision medicine and digital health**
- **Impact and use of AI and ML in diagnostics**
- **Advanced imaging techniques for diagnostics**

Guidelines for Abstract and Poster Submission

All participants engaged in original work/projects related to various broad areas of the conference are welcome to submit the abstract (250 words) online through conference website. Participants submitting abstract must register themselves for the conference. Participants who are only participating in the conference may also register. The organizing committee reserves the right for accepting or rejecting the abstracts. The abstract will only be included in proceedings if the registration fee is received.

Important dates

Registration opening: 1st Aug 2024

Abstract Submission deadline: 30th Sep 2024

Acceptance and Notification: 15th Oct 2024

Early Bird Registration: 30th Sep 2024

Registration Procedure

All participants are requested to register online at www.mnnit.ac.in/ADT2024

Conference Publication

All submitted conference papers will be blind peer reviewed by two competent reviewers. The peer reviewed selected papers will be submitted for inclusion to special issue of reputed journal/proceedings.

Awards and Honors

To promote the budding young scientists, participants are encouraged to apply for various awards like Young Scientist Award, Best poster/oral presentation awards.

Sponsorship

Financial support from government as well as private agencies is actively sought to sponsor various activities and events. The conference provides an ideal platform for exhibitors of books, equipment's, chemicals, software's, and pharmaceutical and diagnostic companies among others, to showcase their latest products. All enquiries and requests regarding sponsorship should be addressed to the designated contact.

Fee Structure

Category of Participants	Early Bird	Late/On Spot
Student (UG/PG) (INR)	3000	4000
PhD/Postdoc/Research Fellow (INR)	4000	5000
Academia (INR)	8000	10000
Industries (INR)	10000	12000
Foreign Deligates (USD)	300	400

***Fee includes registration charges, refreshments served during the events, conference kit.**

Account Name: SNFCE MNNIT Allahabad,

A/C Number: 10424975574,

Branch: SBI. MNNIT Allahabad,

SHiFT CODE: SBININBB82 ; **IFSC CODE:** SBIN0002580

