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International Workshop

On

ADVANCES IN WATER PURIFICATION & WASTE WATER TREATMENT

18th - 19th November, 2022

Jointly Organized by



Department of Chemical Engineering

Harcourt Butler Technical University
Kanpur, Uttar Pradesh-208002

&



Indian Desalination Association (InDA)

In Association with



IICHe, Kanpur Regional Centre
&
Dept. of Chemical Engineering



UIET Kanpur



AIITH Kanpur

Themes of the Workshop

- **Water Purification to solve drinking water problems**
- **Waste Water Treatment**
- **Use of Artificial Intelligence tools in Water Purification and Water Treatment**

Events on the Themes of the Workshop

- **Four Invited Lectures will be delivered by eminent persons during 18th & 19th Nov. 2022 at HBTU East Campus, Kanpur.**

The following events based on the Workshop Themes will be conducted on the Afternoon of 18th November, 2022 at the Workshop Venue:

1. **Oral Presentations (Time - 10 min) (3 participants per team)**
2. **Innovative Idea Presentations (Time - 10 min) (3 participants per team)**
3. **Animation Video (Time - 5 min) (3 participants per team)**
 - Prize pool of **Rs. 15,000/-** sponsored by: **Acoustics India Private Limited, Tamil Nadu**. The prizes and certificates of participation will be given in the Valedictory session.

Registration Fees

Student (UG/PG/PhD):	Rs. 200 /- (per student)
Student (UG/PG/PhD):	Rs. 500 /- (per team of 3 students)
Faculty:	Rs. 500 /-
Industry Personnel:	Rs. 1000 /-

Payment mode: The interested participants may contact the Convener /

Co-Conveners for registration & payment. The account details for payment:

**Bank: CENTRAL BANK OF INDIA; A/c name: InDA-HBTU;
A/C no: 5307313942; IFSC: CBIN0283288; Branch: HBTI Kanpur**

Target Participants

Faculty / Research scholars, M.Tech/ M.Phil/ M.Sc.(Chemistry)/ B.Tech/ Polytechnic Students of Chemical, Civil, Mechanical Engg. and Chemical Technology Branches.

Maximum 250 participants on a first-come-first-served basis shall be accommodated.

Last date for Registration

Last date of Registration: **12th November, 2022**

Note: All the participants must register for getting the certificates.

About the Workshop

Today more than about 800 million people lack access to fresh water across the globe. With the looming threat to climate change, growing population in urban areas, increasing pace of industrialization, the access to freshwater will further widen in near and far-future. This requires an integrated approach for augmenting the available water resources, creating new sources of freshwater, besides the direct interventions on reduce-recover-recycle-reuse of water. Technologies alone don't provide solutions for the social needs, but technological systems having compatibility with the environmental, socio-economic and innovative technologies in line with community may offer sustainable models. These technological solutions may be powered by renewable energy sources for conservation, treatment, purification, and desalination. HBTU Kanpur, and InDA in association with leading professionals, associations and industries from India and abroad, is organizing this international workshop to share the recent advances, analyze the future challenges, and to evolve a synergistic approach towards fulfilling the needs of water.

Harcourt Butler Technical University (HBTU), Kanpur

Harcourt Butler Technical University, Kanpur (Formerly HBTI, Kanpur) was established in 1921 and has a glorious history and has always been in the forefront for technological developments and growth of industries in the country since its inception. The Institute had its decent beginning as Government Technological Institute, Uttar Pradesh in 1921. The Institute was renamed as Harcourt Butler Technological Institute in 1926 in the honor of name of Sir Spencer Harcourt Butler, the then Governor of U.P. Degree courses in Oil Technology and Chemical Engineering were started in 1954 and thereafter number of undergraduate and post graduate courses were started. On March 26, 1965, it was upgraded from a Government Department status to an autonomous Institution. It was upgraded as Harcourt Butler Technical University, Kanpur on September 01, 2016 by Govt. of UP. University spreads across two campuses - East Campus (77 acres) and West Campus (271 acres) situated approximately 3 kilometers apart. The University provides a congenial environment for the holistic growth and all-round development of the students.

Indian Desalination Association (InDA)

InDA was established in the year 1991 with the main goal for the development and promotion of the appropriate use of desalination and water treatment technologies. Being a neutral association without any commercial bias, InDA is active in spreading awareness and providing an interface for enhanced interaction amongst the stakeholders namely the user sectors, industries, academicians, policy makers and program implementation agencies. InDA is an affiliate of International Desalination Association (IDA) and Asia Pacific Desalination Association (APDA) for policy advocacy and adopting world best practices. Each year InDA conducts an international conference to enhance the skills as well to interact with small & medium industries to enable them to mitigate the problems related to wastewater & water management in addition to pollution control.

IICHe Kanpur Regional Centre (KRC)

Over the last few years, KRC has grown to emerge as a leading and resourceful centre with support and patronage of different academic institutes, industrial organizations and government bodies. KRC has been a very active center and upholds the mission and vision of IICHe through technical and professional meetings, organizing seminars, conferences, technical lectures, workshops, etc. IICHe, KRC is dedicated to the development of Chemical Engineering Society in terms of Research & Development, various professional activities and bridging the gap between Academia & Industry. It is also going to organize an International Conference, CHEMCON 2022 from 27th - 30th December, 2022 after about five decades.

Department of Chemical Engineering, HBTU Kanpur

The Department started in the year 1954. It runs B.Tech., M.Tech. and Ph.D. in Chemical Engineering. The department is well equipped with good undergraduate and research laboratories. The department aims to provide students with a balance of intellectual and practical expertise that enables them to serve the chemical industries worldwide as well as the society. The curriculum has been designed to meet the program goals and objectives that lay more stress on learning under the guidance of a vibrant and highly qualified faculty.

Department of Chemical Engineering, UIET, Kanpur

The Department was established in the year 1996. UIET is a flagship institution of CSJM University and is located in the 264-acre sprawling, lush green campus of university. The institute offers six B. Tech courses in five branches of engineering – Chemical Engg., CSE, ECE, IT and ME. Apart from B. Tech courses, UIET also offers Bachelors and Masters courses in Computer Application, PG Diploma courses and Vocational courses.

Department of Chemical Engineering, AITH, Kanpur

The Department was established in the year 2004. Dr. Ambedkar Institute of Technology for Handicapped (AITH), Kanpur is an autonomous institute established in 1997 by the Government of Uttar Pradesh under the Societies Registration Act 1860. It is recognized under the 2(f) of the UGC Act 1956. The institute offers five B.Tech courses in Chemical Engg., CSE, ECE, IT and BT. The alumnus of the Chemical Engg. Dept. are working in reputed organizations in India & Abroad.