



5th International Conference on
**Advances in Water Treatment and
Management**
(ICAWTM-26)

7-8 March 2026, Gandhinagar, Gujarat, India

Organized by



In Association with



Supported by



VENUE

Pandit Deendayal Energy University (PDEU)

Knowledge Corridor, Raisan Village,
Gandhinagar – 382 426,
Gujarat (State), INDIA



GOLDEN SPONSOR



PDEU PANDIT
DEENDAYAL
ENERGY
UNIVERSITY

Formerly Pandit Deendayal Petroleum University (PDPU)

Pandit Deendayal Energy University (PDEU) has been established by GERMI as a Private University through the State Act enacted on 4th April, 2007. The University offers programs to address the need for trained human resources in the domains of Science, Technology, Management and Humanities. It intends to broaden the opportunities for students and professionals to develop core subject knowledge which are duly complemented by leadership training interventions, thereby helping the students to make a mark in the global arena. This objective is being further addressed through a number of specialized and well-planned undergraduate, post-graduate and doctoral programs as well as intensive research projects.

PDEU offers multiple courses ranging from engineering, arts and management along with maximum exposure and opportunities to its students through various national and international exchange programs with best Universities worldwide. For development of its faculties and staff the University endeavours for various Joint Exchange and Research programs.

SOT
SCHOOL OF
TECHNOLOGY

SoET
SCHOOL OF
ENERGY
TECHNOLOGY

SoM
SCHOOL OF
MANAGEMENT

SLS
SCHOOL OF
LIBERAL
STUDIES



Objective of the Conference

Water is a pressing issue in current times. The increase in the urban population, limiting natural resources and improper water management has increased the need for effective & efficient water treatment strategies. This conference is specially designed to bring together an interdisciplinary team of researchers to share their expertise and research experience on recent trends in wastewater treatment and management. The idea is to bring together like-minded agencies and stakeholders including research organizations, universities, NGOs and SMEs from India and abroad to share their expertise in low-cost water treatment, wastewater treatment, recycle and reuse. Conference includes invited lectures by eminent resource persons from reputed University and Institutions, paper presentation, and interactive sessions. The faculties from different colleges, research scholars and students will be given opportunity to demonstrate their own works and get valuable suggestions from experts. The conference aims to create an integrated learning environment and encourage academicians, researchers and students to develop various competencies and enhance their self – efficacy in different techniques for affordable and feasible water treatment options.

Centre of Excellence in Wastewater Treatment and Management

Centre of excellence in wastewater treatment and management is established at PDEU in association of grant received from DST and DBT through different projects. This includes “Low Cost - Renewable Energy Driven (**LC-RED**) Water Treatment Solutions Centre”, (<https://lc-red.wixsite.com/lcred>) funded by Department of Science and Technology under Water Technology initiative”, and “bio-mimetic and phyto-techNologies DesIgned for low-cost purificAtion and recycling of water (**INDIA-H₂O**)”; www.india-h2o.com funded by Department of Biotechnology. Objective of COE in water at PDEU is to develop, design and demonstrate high-recovery low-cost water treatment systems for saline groundwater and for domestic and industrial wastewaters. The focus for developments will be in the arid state of Gujarat, where surface water resources are very scarce. Cost-effective technologies and systems are proposed with the aim of lowering energy costs through dramatic improvements in energy efficiency, new bio-based approaches to water recycling, and use of renewable energy. Reject waste streams will be minimised or reduced to zero, thus protecting the environment.

Advanced membrane processes, including biomimetic FO and RO and layer-by-layer assembly of ultra/nano-filtration membranes, will be developed and combined to provide new methods of purifying water from saline groundwater and from municipal and industrial wastewaters, providing water that is safe for drinking or suitable for irrigation. They will be implemented in cost-effective modes in systems incorporating phytoremediation and complementary processes.

Low-cost sensors for real-time monitoring of the key parameters important for efficient operation of membrane processes will be integrated with monitoring and management systems to ease maintenance of performance and ensure sustainability of these systems which have previously suffered from a lack of robust and reliable operational data, leading to frequent early failure and redundancy. The remote monitoring will also make possible collection of data to enable knowledge to be built up about long term performance, feeding into decision support tools for design and operation.

Systems will be developed and integrated to TRL6 as advanced prototypes that will be integrated with renewable energy sources under real operational conditions in the arid and industrialised state of Gujarat, with prospective applications in many other water-stressed and salinized areas such as Rajasthan, Punjab and Tamil Nadu. The development of business models will maximise the use of indigenous supply chains to reduce costs and ensure sustained implementation of the technologies.

Call for Paper

We are pleased to invite you to participate in the 5th International Conference on Advances in Water Treatment and Management (ICAWTM-25) to be held at PDEU, Gandhinagar, Gujarat, India on **7-8 March 2026**.

We look forward to have a larger participation from your research group. The last date for abstract/poster/ full paper submission of is **20 January 2026**.

The paper submitted should be original work and should not have been submitted in another conference or journal.

After conference, two months of additional time will be given to submit manuscript for publication.

Submission of abstract/ poster/ full paper is now open. [Submission link](#)

For any assistance/ further information, kindly write us on email: water@pdpu.ac.in

Publication

Springer Proceedings: Lecture Note in Civil Engineering

Conference Theme

Thrust Area

- Novel water treatment options for sustainable solutions to clean water scarcity
- Water desalination
- Wastewater treatment and management

Sub Themes to be addressed in this conference include, but not limited to the following:

- Membrane and thermal desalination technologies
- Electrochemical systems in water treatment
- Renewable energy-based water treatment technologies and Low-cost solutions
- Novel hybrid systems and module design
- Emerging desalination technologies
- Novel materials for water treatment
- Artificial Intelligence and Machine Learning application in water
- Pre-treatment and post-treatment processes
- Membrane fouling and control
- Brine/concentrate management
- Resources recovery from brine
- Water recycling and reuse
- Wastewater treatment using immobilized microorganism technology
- Sustainability and water management
- Cost effective methods for removal of heavy metals
- Phytoremediation technologies for contamination of organic pollutants
- Bioremediation of contaminated water or wastewater
- Constructed wetlands for dealing with emerging problem of polluted water
- Ex-situ/ In-situ phytoremediation for treatment of polluted water
- Water policies, governance and planning
- Future trends in water security
- Energy needs for the water sector
- Green technologies for sustainable water resources
- Water and energy in context of 4.0
- Decarbonization and future energy systems
- Energy-saving technologies

- Nanotechnology applications in water
- Biomimetics/Nature-based solutions
- Sustainable Development Goals implementation
- Green Chemistry in Water Treatment: Reducing Environmental Footprints
- Smart Water Networks: AI-Driven Decision Making and Management
- AI for Desalination: Enhancing Efficiency and Reducing Energy Costs
- AI in Predictive Maintenance of Water Treatment Facilities
- AI in the Water-Energy Nexus: Integrating Renewable Solutions
- Green Innovation and Environmental Resilience

Committees

Chief Patron

Prof. S. Sundar Manoharan

Director General, PDEU

Patrons

Prof. Anirbid Sircar

Director, SoT, PDEU

Col (Dr) Rakesh Kumar

Shrivastava

Registrar, PDEU

Prof. Rajesh Patel

Director, SoET, PDEU

Convener

Prof. Anurag Mudgal

PDEU, India

Co-Convener

Prof. Philip Davies

University of Birmingham, UK

Coordinating Committee

Dr. Neil Stewart

Modus, UK

Dr. Jatin Patel

PDEU, India

Dr. Vivek Patel

HoD Mechanical Engineering, SoT, PDEU, India

Dr. Manish Kumar Sinha

PDEU, India

Scientific Advisory Committee

Prof. Surendra Singh Kachhwaha	PDEU, India
Prof. T.P Singh	PDEU, India
Prof. R.K.Vij	PDEU, India
Prof. Vishvesh Badheka	PDEU, India
Prof. Moshe Sagi	BGU, Israel
Prof. Maria Kennedy	IHE Delft, Netherlands
Prof. Prasanta Dey	Aston University, UK
Prof. Sadhan Ghosh	JU, India
Prof. Dinesh Kumar	CUG, India
Prof. R.K. Srivastava	GBPU, India
Dr. Bhawanisingh Desai	PDEU, India
Dr. Rajesh Patel	PDEU, India
Dr. Praghnesh Bhatt	PDEU, India
Dr. Ashish Unnarkat	PDEU, India
Dr. Guillermo Zaragoza	Centre for Energy, Environment & Technology Research, Spain
Dr. Guofei Sun	Aquaporin, Singapore

Dr. Francesca Audino	LEITAT Technological Center, Spain
Dr. Cristina Yacoub Lopez	LEITAT Technological Center, Spain
Dr. Nirajan Dhakal	IHE Delft, Netherlands
Dr. Gabriela Cuadrado Quesada	IHE Delft, Netherlands
Dr. Suphiya Khan	BU, India
Dr. Lidia Roca	Centre for Energy, Environment & Technology Research, Spain
Dr. Kiho Park	Chonnam National University, Republic of Korea
Dr. Ravi Saini	CSIR-CEERI, India
Dr. Satyam Srivastava	CSIR-CEERI, India
Dr. Isaac Fernández Rodríguez	CETIM, Spain
Dr. Dominic Standing	BGU, Israel
Dr. Atya Kapley	CSIR-NEERI, India
Dr. Nitin Labhsetwar	CSIR-NEERI, India
Dr. Paras Pujari	CSIR-NEERI, India
Dr. Ritesh Vijay	CSIR-NEERI, India
Dr. Y L P Thorani	GITAM, India
Dr. Barnali Nag	IIT Kharagpur, India
Dr. Anupam Ghosh	IIT Kharagpur, India
Dr. Satyendra Upadhyay	Somaiya Vidyavihar University, India
Dr. Monica Khanna	Somaiya Vidyavihar University, India
Dr. Vinod Kumar Shahi	CSIR-CSMCRI, India
Dr. Subarna Maiti	CSIR-CSMCRI, India
Xuan Tung Nguyen	Aquaporin, Singapore
Ariadna Claret	LEITAT Technological Center, Spain
Ruben Rodriguez Alegre	LEITAT Technological Center, Spain
Abel Iara Caceres	LEITAT Technological Center, Spain
Robyn Plaice-Inglis	Modus, UK
Liam Burlace	University of Birmingham, UK
Tim Naughton	University of Birmingham, UK
Sergio Cebral	CETIM, Spain
Vaishnav Davey	Davey Products, Chennai, India
Shrenik Merchant	GCCI, India
Rohit G. Mehta	Madhur Dairy, Gujarat, India
Mayur Vaishnav	Madhur Dairy, Gujarat, India
Riyaz Vohra	Jindal Worldwide Ltd., Ahmedabad, India

Organizing Committee

Dr. Vima Mali	PDEU, India
Dr. Manish Kumar	PDEU, India
Dr. Abhishek Kumar	PDEU, India
Dr. Surendra Sasikumar Jampa	PDEU, India
Dr. Rajat Saxena	PDEU, India
Dr. Madhavan N	PDEU, India
Dr. Daya Shankar Kaul	PDEU, India
Dr. Himanshu H Choksi	PDEU, India
Dr. Nanji Hadia	PDEU, India
Dr. Lakshmana Rao Jeeru	PDEU, India
Dr. Achinta Bera	PDEU, India
Dr. Rahul Deharkar	PDEU, India
Dr. Vivek Jaiswal	PDEU, India

Dr. Jaykumar Vora	PDEU, India
Dr. Abhinaya Bhasuru	PDEU, India
Dr. Ojas Satbhai	PDEU, India
Dr. Jaydeep Patel	PDEU, India
Dr. Kishan Fuse	PDEU, India
Dr. Nausheen Nizami	PDEU, India
Dr. Tanushri Banerjee	PDEU, India

Conference Managing Team

Dr. Varsha Mudgal	Water Project Staff, PDEU, India
Dr. Dhaval Patel	Water Project Staff, PDEU, India
Dr. Dipak Ankoliya	Water Project Staff, PDEU, India
Dr. Milan Raninga	Water Project Staff, PDEU, India
Ms. Bhumika Vanal	Research Scholar, PDEU, India
Mr. Het Maru	M. Tech student, PDEU, India

Keynote Speakers



Dr. Kamalesh Prasad

Chief Scientist

CSIR - CSMCRI, Bhavnagar



Dr. Yogesh Kumar

Chief Scientist

CSIR - CSMCRI, Bhavnagar

Other Distinguished Members

Name	ORGANIZATION
Prof. Philip Davies	University of Birmingham, UK
Prof. Maria Kennedy	IHE Delft Institute for Water Education, Netherlands
Dr. Alba Ruiz-Aguirre	Centre for Energy, Environment & Technology Research, Spain
Dr. Gabriela Cuadrado Quesada	IHE Delft Institute for Water Education, Netherlands
Dr. Xialei You	LEITAT Technological Center, Spain
Ruben Rodriguez Alegre	LEITAT Technological Center, Spain
Dr. Jaichander Swaminathan	Indian Institute of Technology Gandhinagar, Gujarat, India
Dr. Atya Kapley	National Environmental Engineering Research Institute Nagpur, India

Prof. R.K. Srivastava	G.B. Pant University of Agriculture and Technology, Pantnagar, India
Dr. Suphiya Khan	Banasthali University, Rajasthan, India
Prof. Dinesh Kumar	Central University of Gujarat, Gujarat, India
Prof S.N. Singh	Indian Institute of Technology Delhi, India
Prof. Nadeem Khalil	Aligarh Muslim University, Uttar Pradesh, India

Important Dates

Last date for Abstract/ Poster/ Full Paper submission	20 January 2026
Notification of acceptance till	25 January 2026
Registration deadline	31 January 2026
Conference dates	7-8 March 2026

Registration Fees

Participants	INR 5000 for PDEU students INR 8000 for all other participants USD 150 for Foreigner
Attendees	INR 3000 for Indian USD 75 for Foreigner

- Kindly make multiple transactions for participating in different categories.
- Registration fees once paid will not be refunded.
- Participation price is for each abstract submitted.
- All delegates have to arrange their own travel and accommodation.
- The conference is offline. However, in case of any unforeseen circumstances, there will be an option to join in online mode.

Fees Payment

For payment of conference fees, please visit www.pdeu-h2o.com/registration-fees

Contact Details

 **Pandit Deendayal Energy University**
Knowledge Corridor, Raisan Village,
Gandhinagar – 382 426,
Gujarat (State), INDIA

 **Milan Raninga:** +91 9033669842
Dipak Ankoliya: +91 9913654239
Dhaval Patel: +91 9512686164

 Email: water@pdpu.ac.in
 Website: www.pdeu-h2o.com
www.pdpu.ac.in



SILVER SPONSOR

PLATINUM SPONSOR
