



**HYDRO 2019- International Conference
(Hydraulics, Water Resources and Coastal Engineering)**



Organized By
**DEPARTMENT OF CIVIL ENGINEERING UNIVERSITY COLLEGE OF
ENGINEERING, OU, HYDERABAD-7**

In Association With
Indian Society for Hydraulics (ISH), Pune

Supported By



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ABOUT COLLEGE OF ENGINEERING (A), OU

The University College of Engineering (UCE) is one of the oldest technological Institutes in the country and the most sought institute in the State of Telangana. Established in the year 1929, eleven years after the formation of Osmania University, it was the 6th Engineering College to be established in the whole of British India. The Institute has been the Modern Temple of Learning and has produced top quality Engineers and have contributed immensely to the development of the society and World at large. The Golden Jubilee of the College was celebrated in 1979, the Diamond Jubilee in 1989, the Platinum Jubilee in 2004 and celebrating nonagenarian in the year 2019. The present HYDRO International conference is being celebrated on the occasion of OUCE reaching 90 years of milestone. The College moved to its present imposing building in the year 1947. The College got autonomous status in 1994. The College offers four-year engineering degree courses leading to the award of Bachelor of Engineering (B.E.) in Biomedical Engineering, Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communications Engineering and Mechanical Engineering. The College also offers courses leading to Master of Computer Applications, Master of Science by Research and also Master of Engineering and Ph.D., in the various branches of Engineering. Part-time courses are offered at postgraduate levels. As of now, there is a yearly intake of 320 undergraduate students (full-time), with an additional intake of 10% of foreign students and 290 postgraduate students (full-time and part-time). There are 140 teaching staff members, including 40 well reputed professors.

ABOUT THE DEPARTMENT:

The Department of Civil Engineering is synonymous with OUCE, as the department started its illustrious journey along with OUCE in the year 1929. The department has grown from strength to strength and has been one of the pioneering departments in imparting quality education in the country. Now, the Department offers undergraduate program with an intake of 60, Seven Post Graduate and Ph.D. programmes. The Department provides R&D and consultancy services to various public and private sector organizations. The Department received research and modernization grants from TEQIP, UGC, DST, MHRD, and AICTE. The Department has celebrated Platinum Jubilee in 2004 and it is celebrating 90 years of its journey. The Department has well qualified faculty with wide experience and exposure in teaching, consultancy and research.

About Indian Society of Hydraulics (ISH)

The Indian Society for Hydraulics (ISH) has been established in the year 1992 as a technical, educational and nonprofit voluntary national organization to encourage and foster understanding amongst engineers, scientists and other technical personnel engaged in various activities related to Hydraulics and Water Resources Engineering. Its main objectives include:

- To disseminate information through the conduct of Seminars/Conferences/ Workshops & symposia.
- To encourage its member to update their knowledge, skills in and outside the country
- To publish papers related to research/ review/ design and investigation in the Journal of Hydraulic Engineering for wider audience.

- To accord recognition to the outstanding Researchers/Engineers who are striving hard in Hydraulics and Water Resources Engineering field.

SCOPE OF THE HYDRO 2019 INTERNATIONAL CONFERENCE

The HYDRO International conference is being held every year in India under the aegis of ISH. The Civil Engineering Department of UCE, OU in association with ISH, HYDRO 2019 is planned on the occasion of OUCE celebrating its 90th year of its establishment. ISH is being held for the first time in Hyderabad after its formation.

The HYDRO conference would mainly focus to discuss, debate, deliberate and exchange of information, generation of ideas and provide solutions to the practical challenges encountered the fields of Water Resources, Hydrology, Coastal Engineering and Environment in the changing scenario. It aims to provide a platform for professionals, Engineers, Researchers and specialists to come together and present their latest findings, opinions and views so as to provide best alternative solutions of the problem. It is the meeting ground of the best brains of the world to come together and share a platform to provide a discussion on the latest thinking and happenings by some of the leading scholars and experts of the world. Further, publish the papers of the latest and advanced the state of knowledge of water science in the world in the conference.

OBJECTIVES OF THE CONFERENCE

The objective of the conference is to bring together Engineers/ Scientists / Researchers working in design, planning, construction maintenance and research aspects of Hydraulics, Coastal and Water Resources Engineering to interact and exchange their experiences through papers and invited lectures. The conference would be conducted in parallel sessions. The Objectives of the Conference are:

- ✓ To identify strategies and innovative technologies in water, land and environmental management particularly suitable to developing countries in the context of developing resilience to the climate change.
- ✓ To share the experience of the academicians, scientists, engineers, NGOs, policy and decision makers throughout the globe in the field of water, land and environment with a focus on protecting the ecosystem services.
- ✓ To provide a platform to people from industry to exhibit their hardware and software products in the water, land management and environmental technologies

CALL FOR PAPERS

Research papers are invited from Faculty, Research Scholars/Post –Graduate Scholars, Design Engineers, Industry, R&D Personnel and practitioners working in the relevant fields The Abstracts shall be submitted within 200 words along with Title, Author names, Affiliation, Address for correspondence, Emails of the authors with four to five key words on any one of the conference themes. All the manuscripts are to be submitted through easy chair website only. **Link:** <http://easychair.org/conferences/?conf=hydro2019>

MAIN THEMES OF THE INTERNATIONAL CONFERENCE

Theme-I: Fluvial Hydraulics and Hydraulic Structure

-Computational hydraulics, urban drainage system, modeling techniques- Computational Fluid Dynamics (CFD)

Theme-II: Hydro-Environment

-Eco-hydraulics, eco-hydrology, contaminant transport, hydro-environment, Sustainable energy, water quality- Environmental Impact Assessment (EIA)

Theme-III: Groundwater Hydrology

Groundwater hydraulics, Ground water quality, groundwater hydrology, Groundwater modeling – Solute Transport Modeling-

Theme-IV: Ports and Coastal Engineering

-Coastal Engineering, Ocean Engineering, ports and Navigation harbors

Theme-V: Water Management and Hydro Informatics

-Urban water management, integrated water managements, Storm water management
Water resources management, conflict resolution in water management- Urban Heat islands- Smart city drainage and water logging, water pollution, Design and development of innovative low cost treatment plants- Rain Water Harvesting Structures- Land and Water Management- Legal Issues in water use.-Sustainable water resources development

Theme-VI: River and Sediment:

River basin management, river morphology, soil erosion and sediment transport, reservoir sedimentation, river conservation and rehabilitation- Dam Break Analysis- Analysis of useful Life of Dams and Reservoirs – Interbasin transfer of water

Theme VII: Climate Change and Extreme Events

- Downscaling techniques, weather research forecasting modeling-Advanced modeling applications in Climate change- Flood and drought managements and Modeling flood resilient cities and infrastructure.- Statistical and Probabilistic applications- Uncertainty Quantification and modeling- Flood Frequency Analysis-

Theme-VIII: Water and Waste Water Modeling

-Water and waste water quality analysis waste water management and waste water modeling – Water Quality and Environmental Modeling

Theme -IX: Geospatial techniques

Applications of Remote Sensing, Geographical Information System and Global Positioning System and Geo-environment

Theme-X: Soft Computing Techniques

- Neural Network Techniques, Fuzzy logic and Evolutionary and Genetic Algorithms, Machine learning techniques- Big data analytics - Machine Learning and Advanced Computational Applications to Water Resources Engineering.

Theme-XI:- Optimizations Applications , Multicriterion Decision Making (MCDM) - Hydraulic & Concrete Structures- -Water Food Energy Nexus- Soil Water Structure Interaction- Irrigation Management- Water Productivity and Agriculture Management- Probabilistic assessment- Uncertainty Quantification and modeling

Theme XII: Miscellaneous Modeling Approaches- Interdisciplinary and Advanced Modeling technique applications to Civil Engg.

SUBMISSION GUIDELINES

Prospective authors are invited to submit the original papers based on the above themes. Further, all manuscripts to be submitted through easy chair only.
<https://easychair.org/conferences/?conf=hydro2019osmania>

REGISTRATION DETAILS

Foreign Delegates: \$300

Authored Delegate: Rs 4000/-

Industry and Non-Author Delegate: Rs. 2000/

Student Participants: Rs 1000/-

IMPORTANT DATES

Submission of Abstract: 31.05.2019

Acceptance of Abstract: 30.06.2019

Submission of Full Length Paper: 31.08.2019

Acceptance Full Length Paper: 30.09.2019

Conference Dates: 18-20, Dec, 2019

ACCOMODATION

Limited accommodation is available in the University Guest house for delegates with prior information. Accommodation charges need to be borne additionally by the delegates.

SPONSORSHIP

We seek liberal support from Industry /institutions for participation and sponsorship.

Patron (Eligible for free 4 Delegates)	Rs. 75, 000/ and above
Sponsor(Eligible for free 2 delegates)	Rs. 50, 0000/- and above
Co-Sponsor(Eligible for 1 delegate)	Rs. 25, 000/ - and above

All the students /Faculties/Scientists are encouraged to avail sponsorship for free registration if institutions are covered under funding agencies such as TEQIP/CSR/ other funds.

Souvenir and Exhibition

It is proposed to bring out a souvenir on the conference and organize an exhibition on Water, Land, Remote sensing, Advanced Explorations and Environmental Technologies at the venue. The prospective advertisers and exhibitors of the equipment, hardware and software technologies are invited to the conference. The tariffs are as detailed below:

For Exhibition: For Souvenir

For Indian Companies: Rs.10000/-

For Foreign Companies: US\$500/-

Full page back cover: Rs. 9,000/-

For full page inside front cover: Rs. 6,000/-

Full Page inside back cover: Rs. 5,000/-

Full Page inside: Rs. 4,000/-

Half page inside: Rs. 2,500/-

For Indian Companies: Rs.5000/- Inside quarter page: Rs. 1,500/-

Post Conference Technical Tours

On December 21, 2019: Local visit to Iconic places of Hyderabad will be arranged based on the response from the participants. The cost for the tour will be borne by the participants only..

Cultural Programme

On the evening of the December 19, 2019 a Classical Dance programme will be arranged.

Conference Location - Hyderabad

Hyderabad, a city of pearls and is more than 400-years old is the capital of State of Telangana, in South India and carved its niche in the world map. The city of Hyderabad has been the growth engine and the most happening city in the country as well. The city presents an attractive amalgamation of ancient architecture, together with the ebullience of growth and enterprise of the modern world. Hyderabad, often called the Gateway of the South, blends the north and south Indian identities and cultures. Hyderabad is located at an altitude of 536 m above mean sea level and is a seat of a number of R&D Organizations of national and international repute besides being a host for a dozen Universities and a number software development centers. During the Conference days, Hyderabad will be experiencing a mild winter with day time temperature reaching up to of about 25° C and night temperature of about 18°C. Carrying light warm clothes is recommended.

Important tourist attractions of interest for visitors are:

Charminar, Golconda Fort, Birla Mandir, Falaknuma Palace, Salar Jung Museum, Hussain Sagar, Lake and Ramoji Film City. For further information, please visit:[http:// www.tstourism.com](http://www.tstourism.com)

ABOUT OSMANIA UNIVERSITY (1917-2019)

The Osmania University (OU) was established in the year 1917, is the seventh oldest in India and the third oldest in South India and is celebrating its centenary year in 2017-18. Osmania University has the long and momentous history in pre and post Independence. Osmania University reflects the National agenda for higher learning, education as well as the aspirations of its founder, Mir Osman

Ali Khan, the 7th Nizam of Hyderabad. It is a multi-faculty and multidisciplinary university offering rich and varied courses in the fields of Humanities, Arts, Sciences, Social Sciences, Law, Engineering, Technology, Commerce and Business Management, Information Technology and Oriental Languages. OU has achieved the highest rating by NAAC for previous accreditations. In recognition to its continuous and sustained academic achievements, Osmania University was awarded with University with Potential for Excellence (UPE) status by the University Grants Commission, Govt of India. OU has the rare distinction of having more than 1 Crore strong alumni force who have distinguished themselves nationally and internationally in various spheres of life and spread across globe. OU has contributed immensely to the academic, research, social and economic development of the region and country at large and is now gearing up for the 21st century aspirations to meet the grand challenges in the higher education system.

The University lays strong emphasis on research and industrial consultancy. At present, more than 600 research scholars are in receipt of research fellowships through CSIR-NET, UGCNET, UGC-BSR, DST-INSPIRE, RGNF, MANF, ICMR, and ICSSR). An equal number are supported through project funding as project fellows. University has created more than eighteen research centers with the support of various funding agencies and established Central Facilities for Research and Development (CFRD) – a single window featured advanced research infrastructure facilities housing around twelve kinds of training and services extending centers and cells catering the needs for both researchers and industry.

Ranked 33rd in the National Institutional Ranking Framework for 2015-16 by MHRD, Govt of India. The University has been ranked among the best 10 universities in the country for the last seven consecutive years as per the survey conducted by the India Today - Nielson and the Week-Hansa Research Survey.

DATE AND VENUE

The HYDRO 2019 Conference will be held during 18-20 December, 2019 at the Department of Civil Engineering, University College of Engineering, OU, Hyderabad, India.

LIKELY SPONSORS

Technical Education Quality Improvement Programme, Govt. of India

National Bank for Agriculture and Rural Development

Council of Scientific and Industrial Research, Govt of India

All India Council for Technical Education

Department of Science and Technology, Govt of India

Ministry of Environment & Forests, Govt of India

National Remote Sensing Centre

Ministry of Earth Sciences, Govt of India

University Grants Commission (UGC)

SWAN Environmental Pvt.

Ministry of Water Resources, River Development & Ganga Rejuvenation, Govt of India.

CBIT, VASAVI COLLEGE OF ENGG, JNTUH, BITS HYD, NIT Warangal, IIT H

DCET, METHODIST COLLEGE OF ENGG AND TECHNOLOGY

MVSR COLLEGE OF ENGINEERING

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Registration Form
For
Three Day HYDRO International Conference on
(Hydraulics, Water Resources and Coastal Engineering)
During 18-20, December, 2019

Sponsored by
TEQIP-III

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(MR/MRS/DR/PROF).....

DESIGNATION

TITLE OF THE
PAPER.....
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WHETHER PARTICIPATING IN THE CONFERENCE (YES/NO)
WHETHER PRESENTING A PAPER : YES/NO
WHETHER PARTICIPATING IN THE EXHIBITION: (YES/NO)
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Particulars of Registration Fee:
Amount Rs. _____ D.D.No./online _____
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Payment should be drawn in favour of the **Organizing Secretary hydro2019 payable** at Hyderabad, India.

Account Name	Organising Secretary – hydro2019
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Address for Correspondence

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&

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Publication in Journal/conference proceedings

Best papers presented in the HYDRO International conference will be peer reviewed and published in the ISH Journal of Hydraulic Engineering (Taylor and Francis). The Authors are required to submit the papers by following Author guidelines of the journal and submit to the conference secretary. If the Authors wish to publish in the above journal, however, they shall give their consent to that effect to the conference. No additional processing fees will be collected from the authors for the publication purpose. The authors shall note that those papers which were not selected for publications in the journals would be published in conference proceedings.

Figures...

TEQIP-3

Technical Education Quality Improvement Programme

