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Professor, Department of Architecture and Planning IIT Roorkee, India**ORGANIZING SECRETARY****Sumit Sen**

Associate Faculty, CoEDMM

Associate Professor, Department of Hydrology, IIT Roorkee

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KEY NOTE SPEAKER

K. Takara	Vinod Menon	Rajib Shaw
M. Perumal	Shirish Ravan	Gretchen Kalonji
R B Singh	Anshuman Saikia	

CONFERENCE PARTNERSUnited Nations Office for Disaster Risk Reduction
Japan Society of Hydrology and Water Resources (JSHWR), Japan**INSTITUTE PARTNERS**Department of Hydrology and Department of Architecture and Planning,
Indian Institute of Technology Roorkee, India
Graduate School of Advanced Integrated Studies in Human Survivability
and Disaster Prevention Research Institute, Kyoto University, Japan**CALL FOR PAPERS and POSTER**

You are invited to submit extended abstract of about 1000-1200 words on the given objectives through the websites (APHW, <http://rwes.dpri.kyoto-u.ac.jp/~tanaka/APHW/APHW.html>) till 10th August 2019. mention your affiliation, postal address, phone and fax numbers, and email address. Alternatively you can also email the abstract to the Organising Secretary ETUWM 2019 by above date at ETUWM2019@gmail.com. Selected abstract will be published as peer-reviewed papers in “Progress in Disaster Science” by Elsevier Journal and “Hydrological Research Letters”.

KEY DATES

Task	Completion Date
Last Date of Abstract submission	10 th August 2019
Notification of acceptance of abstract	30 th August 2019
Last date submission of modified abstract	15 th September 2019
Early bird registration	15 th October 2019
Conference	22-23 November 2019

REGISTRATION DETAIL**REGISTRATION FEE****

	For Early registration till 15 th October 2019	For late registration after 15 th October 2019
Delegates	USD 350	USD 450
Delegates from SAARC Countries	RS 6000	RS 8000
Research Scholars / Students	USD 200	USD 250
Research Scholars / Students from SAARC Countries	RS 2500	RS 3500

**Registration fee waiver for selected young scientist including students

PAYMENT MODE

DEMAND DRAFT in favour of “DEAN SRIC IIT Roorkee” payable at Roorkee

Online payment / NEFT for IIT Roorkee

Bank name – Punjab National Bank

Bank branch address – IIT Roorkee

Bank account holder’s name – Dean SRIC

Bank account no. – 4044000100151240

Bank IFSC – PUNB0404400

Branch code - 4044

ACCOMODATION

Rooms shall be available on the payment basis for delegates in a wide range of categories within IIT Campus, (NCNGH, KIH, CEC, Community Centre and student hostels on sharing basis. The hotel details shall be posted on website.

CONTACT DETAILS**Sumit Sen**

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Email- ssenhfhy@iitr.ac.in**Tel** – +91-01332-284754**For more information please website –**<http://rwes.dpri.kyoto-u.ac.jp/~tanaka/APHW/APHW.htm>Email us – etuwm@gmail.comEmail us – etuwm@iitr.ac.in**APHW2019**8th APHW International Conference
on**Emerging Technologies in
Urban Water Management****22-23 November 2019**
IIT RoorkeePre-Conference Event on 21st November 2019**ORGANISED BY****CENTRE OF EXCELLENCE IN DISASTER MITIGATION
AND MANAGEMENT, IIT ROORKEE, INDIA****&****ASIA PACIFIC ASSOCIATION OF HYDROLOGY AND
WATER RESOURCES (APHW)**

IIT ROORKEE

Indian Institute of Technology Roorkee, Roorkee is among the foremost of institutes of national importance in higher technical education and in engineering, basic and applied research. Since its establishment (in 1847), the Institute has played a vital role in providing the technical manpower and know-how to the country and in pursuit of research. The Institute ranks amongst the best technological institutions in the world and has contributed to all sectors of technological development. It has also been considered a trend-setter in the area of education and research in the field of science, technology, and engineering. Indian Institute of Technology – Roorkee, formerly University of Roorkee and Thomson College of Civil Engineering, is a public engineering university located in Roorkee, Uttarakhand, India. Established in 1847 in British India by the lieutenant governor, Sir James Thomason, it was given university status in 1949 and was converted into an Indian Institute of Technology (IIT) in 2001, thus becoming the seventh IIT to be declared. IIT Roorkee has 21 academic departments covering Engineering, Applied Sciences, Humanities & Social Science and Management Programs with a strong emphasis on science and technology education and research.

CENTRE OF EXCELLENCE IN DISASTER MITIGATION AND MANAGEMENT

The Centre of Excellence in Disaster Mitigation and Management (CoEDMM) is the first center of disaster mitigation and management in India. It was established on March 27, 2006 with the aim of conducting educational programs, cutting edge research and training on disasters, vulnerability and its mitigation. Creation of a National Database for rapid dissemination of information and knowledge is also an objective. The Centre is a multidisciplinary research and education centre. The main aim of the educational program is to impart advanced knowledge on technical and managerial skills to the professionals to make them equipped with innovative technologies for effective mitigation and management of disasters for the overall benefit of the society. The CoEDMM aims to achieve excellence in key areas of education and research at par with international standards. Regional issues related to Earthquakes, Tsunamis, Floods, Cyclones, Fire, Avalanche, Land Slides, Cloud Burst and their early warnings are other focus areas. The Centre offers a two-year course in disaster mitigation and management specialization. The doctoral program is strongly supported by professors who are stalwarts in their field. The CoEDMM has faculty with domain expertise in Earthquakes, Landslides, Cyclones, Floods, Tsunamis Cyber Crime, Avalanches, Fires, Industrial disasters, CBRN (chemical, biological, radiological and nuclear) and Geomatics. Various research and consultancy projects are being carried out funded by Government of India and other National and International funding agencies.

THE ASIA PACIFIC ASSOCIATION OF HYDROLOGY AND WATER RESOURCE, JAPAN

The Asia Pacific Association of Hydrology and Water Resources (APHW), was established on 1st September 2002. The APHW has been conducting activities, such as promotion of hydrological studies in the Asia Pacific region; research on water utilization and management methodologies; organization of conferences and workshops; establishing education programs; knowledge sharing; and research publications in strong cooperation with the Japan Society of Hydrology and Water Resources (JSHWR). Until 2019, the APHW has organized seven international conferences under the association umbrella in collaboration with the organizations like AOGS, IAHS, IWRA, WMO-CHy, UNESCO-IHP, ASCE-EWRI and IAHR.

APHW MEETINGS

Previous Conferences	Dates	Locations
Launch of the Association	1st September 2002	Tokyo, Japan
1 st APHW Conference (Immediately before WWF3)	13-15 March 2003	Kyoto, Japan
2 nd APHW Conference (Jointly with 1 st AOGS conference)	5-8 July 2004	Singapore
3 rd APHW Conference (Jointly with UNESCO-IHP)	16-18 October 2006	Bangkok, Thailand
4 th APHW Conference	3-5 November 2008	Beijing, China
5 th APHW Conference	8-10 November 2010	Hanoi, Vietnam
6 th APHW Conference	19-21 August 2013	Seoul, Korea
7 th APHW Conference (Jointly with 12 th AOGS conference)	2-7 August 2015	Singapore

APHW-2019 CONCEPT NOTE

The APHW 2019 conference brings together internationally recognized experts in the field of water resources management, disaster analysis and technology development to address disaster risk reduction. The conference champions the APHW global vision of being *“among the global leaders that provide engineering and technological solutions toward establishing integrated methodologies for disaster prevention on the basis of natural and social sciences, and educating students in related fields”*.

Development leads to urbanisation, which is a process of change from rural to urban way of life over space and time, based on naturally evolved or acquired specialization. From a meagre 3 percent in 1800, the worlds population residing in urban areas increased to 30 percent by 1950s. In 2008, for the first time, the world's population was evenly split between urban and rural areas. As of 2016, the figure has reached 54.5 percent, which is projected to be 66 percent by 2050.

In many cases, the ‘process of urbanisation’ has taken its toll on natural resources coupled with unscientific planning and development activities. Recent floods in many Indian cities as well as other parts of the world have raised awareness of urban flood risk. With rapid urbanization causing land-use pattern changes along with climate change and variability results in loss of flood-plain storage and increased runoff. Urban flooding due to drainage system failures cause large damages to life and infrastructures. Urban flooding is significantly different from rural flooding in terms of increased flood peaks by 1.8 to 8 times and flood volumes by up to 6 times. Besides, urban areas are economic centres with vital infrastructure that must be secured round the clock. This crucial scenario, necessitates the development of scientific and engineering techniques for efficient urban flood and water management, like early warning systems, real-time monitoring systems, response strategies, capacity building measures, etc. Today, despite technological advancements in urban water management, ground level implementation is a major concern. Disasters know no boundaries; any flood event betrays the inefficiency of the techno-legal mechanism adopted resulting in loss of lives, property and services. It’s a warning signal that we cannot go on like this and must act together to mitigate the urban flood hazards and water-related disasters innovatively.

Due to high stakes in the urban centers, it is imperative as stakeholders, to look forward to discussing existing and developing new technologies to address urban flood hazard. Doing so, it is also most important to focus more on urban water-related disaster risk reduction instead of urban flood management, in accordance to the principle of Sendai Framework for Disaster Risk reduction 2015-2030.

In light of this background, the aim of the 8th Asia Pacific Hydrology and Ware Resources Conference (APHW2019) shall be to interact and explore in order to evolve more of such technologies, practices and methods that will help mitigate and reduce urban water disaster risks. The Asia Pacific Association of Hydrology and Water Resources (APHW) is the lead organizer of this conference. The APHW promotes an appropriate framework for the exchange of operational knowledge and experience in water resources management and research activities and education in the Asia Pacific region.

We hope that the papers will present new research, interesting case studies, implementable solutions and scalable outputs. The conference will provide a forum to debate, discuss and deliberate upon choosing a common path for the future in order to mitigate urban water related hazards. Following objectives have been adopted to include the variety of fields addressing the common theme. The objectives are exhaustive in order to bring on board the vast spectrum of research happening across the world.

OBJECTIVES OF THE CONFERENCE

1.	Provide an open and effective platform for international exchange of technology and scientific ideas on urban water management
2.	Discuss latest innovations and technological developments in the domain of urban flooding like modelling, monitoring, management, early warning systems, predicting, urban flood hazard maps
3.	SWOT analysis of existing science and technology on urban flooding and water issues globally.
4.	Discuss global case studies of urban flooding and water management, and way forward
5.	Developing network (Bringing together) of researchers, academicians, industrialists, policy makers and non-governmental organizations
6.	Developing innovative solutions to disseminate information generated from the conference to the global audience

TARGET AUDIENCE

The meeting will bring together engineers, planners, hydrologists, scientists, surveyors, social scientists, non-governmental organizations, international and national professional bodies and organizations, policy makers, response professionals, academicians, disaster managers, researchers, industrialists, students and other professionals from many countries involved in research and development activities, policy formulations, ground level work and academics in a wide range of technical and management topics related to water and its impacts on communities, property and people. It will specifically focus on climate change-induced urban flooding of Asia Pacific Region.

More information for the 8th APHW Conference (APHW 2019) will be available on <http://rwes.dpri.kyoto-u.ac.jp/~tanaka/APHW/APHW.html>; www.iitr.ac.in; www.aphw2019.in

SPONSORSHIPS

APHW-2019 solicits sponsors towards conference support and promotional facilities profiles by means of advertising company name and logo on conference webpage, promotional materials and time slots for technical presentation .

Platinum	USD 10000/ INR 3,00,000 (Full registration of 6 delegates)
Gold	USD 7000/ INR 2,50,000 (Full registration of 5 delegates)
Silver	USD 6000/ INR 1,50,000 (Full registration of 3 delegates)
Supporter	USD 4000/ INR 1,00,000 (Full registration of 2 delegates)

More information on sponsorships in APHW 2019 is available on conference website www.aphw2019.in