

International Dam Safety Conference - 2018

23rd & 24th January, 2018 at Thiruvananthapuram, Kerala (India)

To be Organised in India under the aegis of Dam Rehabilitation and Improvement Project (DRIP)



MENU



ABOUT THE CONFERENCE

The International Dam Safety Conference-2018 is being organized jointly by the Central Water Commission (CWC), Kerala Water Resources Department (KWRD), Kerala State Electricity Board (KSEB), National Institute of Technology, Calicut (NITC), and College of Engineering, Trivandrum (CET) during 23rd and 24th January 2018 in Kovalam, Thiruvananthapuram. This Conference is fourth in the series, being organized under the aegis of ongoing Dam Rehabilitation and Improvement Project (DRIP); CWC is managing DRIP with the financial assistance from the World Bank to rehabilitate about 225 dams in India. The earlier conferences organized in the years 2015, 2016 and 2017 received overwhelming response in terms of professional participation, technical papers contributed and participation by Indian and overseas organizations in the exhibition. These conferences bring together dam professionals and experts in the various inter-related disciplines from within India and around the world to discuss, reflect and share technology and experience in addressing dam safety issues and strategies to address them.

The Conference will have one Plenary Session, four Technical Sessions, and one Industry Session. There will be three stimulating presentations during the Plenary Session by eminent dam safety professionals. Several oral presentations during the Technical Sessions reflect the developments in technologies, materials, and instrumentation for dam design, construction, operation, maintenance and rehabilitation including case histories on dam safety issues and solutions. Technical Sessions are organized in parallel to provide enhanced opportunities for oral presentation of papers.

THE VENUE

The Conference will take place at 'The **Lesla Kovalam**', India's only cliff-top beach resort located in Thiruvananthapuram, the capital of the South Indian State, Kerala which is known as the Spice Coast of India for the variety of spices grown here and as God's Own Country for its natural beauty and famous temples. India's richest temple, the eighth century **Śree Padmanabhaswamy Temple** is in Thiruvananthapuram. The confluence of the three seas (The Arabian Sea, Indian Ocean, and the Bay of Bengal), Kanyakumari is about 90 km from here. Thiruvananthapuram is easily accessible by air, rail and by road.

CONFERENCE THEMES

The Conference focuses on the continual improvement of the techniques for managing the safety and risk of aging dams providing for their long-lasting and sustainable management to ensure that our dams and reservoirs are secure and resilient, and are adequately prepared for floods and earthquakes. The themes for various sessions are planned as under:

Plenary Session: Sustainable Dam Safety Initiatives

Dam safety is of paramount importance to protect life, property and the environment as also to protect the water security offered by the dams. Invited papers from eminent persons to project emerging trends and innovations related to dam safety and their experience in implementing several initiatives and their contribution towards sustainable dam safety will be presented during this session.

TS 1: Uncertainties and Risk Management in Dams

- Potential risk associated with dam design, construction, maintenance, operation, and safety assurance of dams;
- Special risks from gates operation and floating debris;
- Risks associated with human and organizational factors;
- Uncertainties and risk-informed decision making in dam design, construction, maintenance, operation, and safety assurance of existing dams and novel technologies in construction material;
- Numerical modelling and statistical approach for risk evaluation
- Risks specific to tailing dams, special purpose dams, flood control structures etc.



TS 2: Operation, Maintenance, Rehabilitation, and Upgrading of existing dams

- Reservoir silt management and desilting (flushing, dredging, excavation, etc.);
- Upgrading dam health monitoring system and re-instrumentation;
- Long-term performance of dams w.r.t. various loading histories, including thermal loading;
- Dam failure case histories and solutions;
- Internal erosion: analysis, monitoring, remedial measures;
- Raising of dams and reservoir levels;
- Innovations in operation, maintenance, and rehabilitation of hydro-mechanical components.



TS 3: Dam Safety Management Practices

- Legislation, regulatory mechanism, guidelines and good dam safety practices;
- Accidents and incidents in dams and reservoirs - case studies;
- Monitoring, Instrumentation and Safety Assessment;
- Enhancements in dam surveillance systems for dam safety and its security;
- Capacity building and state-of-the-art in dam engineering;
- Advanced construction materials, technologies, and solutions in dam rehabilitation;
- Advances in dam health investigations like underwater investigations using Remote Operated Vehicles (ROVs), surface mapping using Unmanned Aerial Vehicles (UAVs) / Drones, geotechnical methods, etc.

TS 4: Integrated Flood Management for existing dams

- Uncertainties in flood evaluation, revision and associated risks in design floods for existing dams.
- Recent trends in spillway design and spillway upgrading.
- Innovations in energy dissipation and downstream erosion control.
- Structural and non-structural measures to mitigate dam flood disasters
- Dam failures or flood incidents linked to gate operation: case histories and lessons learnt

INDUSTRY SESSION

In this session, industry representatives from within India and around the world will be provided with an opportunity to project their products and services highlighting contemporary developments in technology, materials, instrumentation and their application in addressing the dam safety issues.



EXHIBITION

Space will be made available to select exhibitors to showcase their technologies, instruments, products, and services related to dam safety. Organizations interested in participating in the exhibition should submit the 'Request for Exhibition' indicating the nature of display and space required, online at our website by **30 November 2017**. Depending on the availability, space will be assigned; preference will be given to organizations sponsoring events or items for the Conference. The exhibition stalls will remain open after the day's sessions have ended to provide an opportunity for extra networking between registered participants and the international exhibitors.

PARTICIPATION

Professionals who plan, design, build, operate, monitor, maintain and rehabilitate dams are invited to register online at our website: www.damsafety.in to participate in the Conference. The last date for registration of delegates is **30 November 2017**. There is no participation fee for attending the Conference. However, participants are required to make their own arrangements for their lodging, transportation, and other incidentals. Efforts are being made to provide limited accommodation to official delegates of DRIP implementing Agencies and members of National Committee on Dam Safety. Participation in the Conference is by invitation. Owing to capacity limitations, some registrations might not be accepted; therefore, it is advised to await confirmation before making travel plans and other arrangements.

TECHNICAL PAPERS

Technical Papers reflecting the developments in technology, materials, instrumentation, and methods including case histories of dam safety issues and solutions, are invited for presentation in the technical sessions. Full papers, including main body, figures and tables, should not be more than 6 pages on the A4 format; Guidelines to Authors published on the website may be referred for more details on formatting. All the papers received will be reviewed by a panel of experts for the quality of contents and their relevance to the themes of Technical Sessions before acceptance. Authors of accepted papers shortlisted for oral presentation will be requested to submit presentation slides.

Soft copies of all the accepted papers and printed copies of their abstracts will be distributed to the participants during the Conference. In addition, select technical papers, after necessary editing, will be published as a compendium following the Conference. CDSO and CWC reserve the right to publish the technical papers / compendium on its websites or in any other media; therefore, consent in this regard shall be given by the Principal Author while uploading the paper.

Timelines for submission of papers:

- Submission of full papers: **31 October 2017**;
- Communication of shortlisted papers for oral presentation: **30 November 2017**;
- Submission of slides (limited to 15-20) for oral presentation: **15 December 2017**



CONFERENCE PROGRAMME

23 January 2018		24 January 2018	
Time	Programme	Time	Programme
0900-0930 h	Registration	0900-1030 h	Technical Session 2
0930-1030 h	Inauguration	1030-1100 h	Tea
1030-1100 h	Inauguration of Exhibition	1100-1230 h	Technical Session 3
1100-1130 h	Tea	1230-1330 h	Lunch
1130-1300 h	Plenary Session	1330-1500 h	Technical Session 4
1300-1400 h	Lunch	1500-1600 h	Valedictory Session
1400-1530 h	Technical Session 1	1600-1630 h	Tea
1530-1600 h	Tea		
1600-1730 h	Industry Session		

Each of the four Technical Sessions will be organized in two parallel locations by designating them as TS1a, TS1b.....to accommodate oral presentations of more papers

SIGHTSEEING TOURS

For the benefit of delegates reaching the venue on 22 January 2018, half day sightseeing visit is planned in the afternoon. Kerala is one of the most popular tourist destinations in the country. Named as one of the ten paradises of the world by National Geographic Traveler, Kerala is famous especially for its ecotourism initiatives, enchanting backwaters and aesthetic plantations. Participants interested in undertaking sightseeing tours may visit the Kerala Tourism website: <https://www.keraktourism.org/> for more details.



For any information, please contact

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International
Dam Safety Conference
2018

Safe Dams for Safe Future

CALL FOR PAPERS

23-24 January 2018
Thiruvananthapuram
Kerala



Organized By
Central Water Commission,
Kerala Water Resources Department,
Kerala State Electricity Board,
National Institute of Technology Calicut,
and College of Engineering, Trivandrum

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Visitors

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from the Social



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