



“APSU Conference for Dam Safety”

13 November 2021, 15:00 to 17:00 pm

Venue:- **Baghdad Hall / Mosul Dam Camp - Iraq**

Technical Session 2:

Assessment, Investigation and Modeling in monitoring, operating and dam safety

Moderator: Dr. Sohail Idris Khattab- Ninoi Future Center for Strategic Studies NFCSS

It is recognized that integrated planning, design, construction, operation, and maintenance of large water infrastructure coupled with recognition of impacts of climate change is vital to minimize the risks of catastrophic disaster affecting downstream populations.

Moreover, lessons learned from other large scale water infrastructure developments on trans-boundary rivers reveal that coordination of dam safety-related planning and management develops trust and confidence and creates strong cooperation among the riparian countries.

Session's Goals:

This session will light up aspects related to design, modelling, assessment, inspection, and operation of large-scale water infrastructures (large dams) and how to deal with dam safety issue requirements as:

1. Several dam incidents with severe consequences had given rise to general concern about the safety of dams and indicated the necessity for a formal safety approach.
2. The height of new dams and the volume of new reservoirs are increasing, while many older dams are approaching an age at which material deterioration and decreasing operational reliability may dictate some repair and upgrading. Certainly, both the growing dimensions of new dams and the aging of older dams suggest a more rigorous approach to safety aspects.
3. An ever-increasing number of dams are being built in countries with little or no tradition and experience in dam engineering. The formalization of safety considerations and the issuance of summarized safety requirements would be part of the necessary transfer of technological knowhow to these countries.



Session details and Key Speaker is as follow:

	Title	Speaker	Organization	Participati on mood
1	USACE Dam Safety Program.	Wade Anderson, PE Georgette Hlepas, PhD,PE	US Army Corps of Engineers	Online
2	Experimental Investigations on Sediments Removal Around Dam Hydropower Intake by Scouring	Prof. Dr. Thamer Ahmad Mohammad	University of Baghdad	Physical
3	ASSESSMENT OF STABILITY OF MOSUL DAM	Dr. Ahmed Al-Mufty	Geomechanics Specialist Rocscience Inc., Toronto, Canada	Online
4	Earthquake-Induced Deformations in Embankment Dams: Darbandikhan Dam as a Case Study	Dr. Kawa Zidan Abdul Rahman Abdullah	University of Sulaymaniyah	Physical
5	Reservoirs Sedimentation	Prof. Dr. Nadhir Al-Ansari	Elias Luleå University of Technology, Sweden	Online

