

Workshop on  
**Evaluation of Numerical Models and Input  
Parameters in the Analysis of Concrete Dams**  
2018 USSD Annual Conference  
Miami, FL  
May 3, 2018

Uncertainties in numerical analysis of concrete dams and dam appurtenant structures highlight the need to assess the state-of-practice more closely. Developing confidence in numerical models is very important for dam owners and the engineers performing numerical analyses, Chairs for the USSD Concrete Dams Committee and Earthquake Committee have combined efforts to explore variability in analysis methods used throughout the engineering industry in an attempt to identify and improve areas of uncertainty in current numerical modeling practices.

**Workshop Organizing Committee includes:**

Mrs. Hillery Venturini	(Bureau of Reclamation) - Leader
Dr. Yusof Ghanaat	(Quest Structures)
Dr. Mohammad Amin Hariri	(University of Colorado at Boulder)
Mr. Vik Iso-Ahola	(Stantec)
Dr. Lelio Mejia	(Geosyntec)
Mr. Larry Nuss	(Nuss Engineering, LLC)
Mr. David Queen	(BC Hydro)
Dr. Jerzy Salamon	(Bureau of Reclamation)

**AGENDA**

**8:00 AM Welcome**

Jerzy Salamon - Concrete Dam Committee Chairman and Lelio Mejia - Earthquake Committee Chairman

**8:05 AM Introduction**

(Moderator: Hillery Venturini – Workshop Organizing Committee Leader)

- Introduction to the workshop
  - General discussion from 2017 USSD Workshop
  - Purpose for 2018 USSD Workshop
- Overview of problem formulation
  - Case studies
  - Description of additional topics investigated by participants
- Introduction of participants and submission information

**8:30 AM Presentation of Workshop Results**

(Moderators: Hillery Venturini and Jerzy Salamon)

- Summary of Results
  - Findings
  - Trends & Areas of Uncertainty
  - Open Discussion

- 9:00 AM**      **Berkeley Pine Flat Analysis Results**  
(Presenter: Larry Nuss)
- Overview of prior Berkeley studies of Pine Flat Dam
  - Discussion
- 9:45 AM**      **Break**
- 10:00 AM**     **Presentations by Participants**  
(Moderators: Hillery Venturini and Yusof Ghanaat)
- Investigation Results on Focus Subject (3 participants)
    - 10 min presentation
    - 5 min discussion
  - Open Discussion
- 11:00 PM**     **Break**
- 11:15 PM**     **Presentations by Participants (continued)**  
(Moderators: David Queen and Vik Iso-Ahola)
- Investigation Results on Focus Subject (3 participants)
    - 10 min presentation
    - 5 min discussion
  - Open Discussion
- 12:15 AM**     **Lunch (provided by USSD)**
- 1:15 PM**      **Presentations by Participants (continued)**  
(Moderators: David Queen and Mohammad Amin Hariri)
- Investigation Results on Focus Subject (2 participants)
    - 10 min presentation
    - 5 min discussion
  - Open Discussion
- 2:00 PM**      **Break**
- 2:15 PM**      **Discussion and Questions**  
Moderators: David Queen and Larry Nuss
- 3:15 PM**      **Summary and Conclusions**  
Moderators: David Queen and Yusof Ghanaat
- 3:45 PM**      **Workshop Closeout**  
Moderators: Jerzy Salamon and Lelio Mejia
- 4:00 PM**      **Adjourn**