### 2020 Conference and Exhibition

#### Sunday, April 19

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 pm - 6:00 p.m.</td>
<td>Registration Desk Open</td>
<td>Hyatt Lobby</td>
</tr>
</tbody>
</table>

#### Monday, April 20

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am - 7:00 pm</td>
<td>Registration Desk Open</td>
<td>Centennial Foyer</td>
</tr>
<tr>
<td>8:30 am - 12 noon</td>
<td>Conference Opening Session: Legacy Lecture Series</td>
<td>Centennial F-H</td>
</tr>
<tr>
<td>The Advancement of the Engineering Practice for Concrete Dams, Kenneth Hansen, Consultant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30 pm - 3:30 pm</td>
<td>Committee Meetings Session 1</td>
<td>Various</td>
</tr>
<tr>
<td>3:30 pm - 4:00 pm</td>
<td>Break</td>
<td>Various</td>
</tr>
<tr>
<td>4:00 pm - 6:00 pm</td>
<td>Committee Meetings Session 2</td>
<td>Various</td>
</tr>
<tr>
<td>6:00 pm - 7:30 pm</td>
<td>Welcome Reception</td>
<td>Centennial Ballroom</td>
</tr>
<tr>
<td>7:30 pm - 9:00 pm</td>
<td>Tribute to Kim DeRubertis Reception</td>
<td>Mineral Foyer</td>
</tr>
</tbody>
</table>

#### Tuesday, April 21

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am - 6:00 pm</td>
<td>Registration Desk Open</td>
<td>Centennial Foyer</td>
</tr>
<tr>
<td>7:15 am - 8:15 am</td>
<td>USSD Town Hall: Ask the Board</td>
<td>Centennial F</td>
</tr>
<tr>
<td>7:15 am - 8:15 am</td>
<td>Continental Breakfast in Exhibit Hall</td>
<td>Centennial Ballroom</td>
</tr>
<tr>
<td>8:30 am - 10:15 am</td>
<td>Plenary Session 1</td>
<td>Capitol Ballroom</td>
</tr>
<tr>
<td>10:15 am - 10:45 am</td>
<td>Break in Exhibit Hall</td>
<td>Centennial Ballroom</td>
</tr>
<tr>
<td>10:45 am - 12:15 pm</td>
<td>Concurrent Technical Sessions Track 1</td>
<td>Centennial F</td>
</tr>
<tr>
<td>1A Concrete Dams I</td>
<td></td>
<td>Centennial G</td>
</tr>
<tr>
<td>1B Embankment Dams I</td>
<td></td>
<td>Centennial H</td>
</tr>
<tr>
<td>1C Hydraulics &amp; Hydrology I</td>
<td></td>
<td>Mineral DE</td>
</tr>
<tr>
<td>1D Tailings Dams I</td>
<td></td>
<td>Mineral FG</td>
</tr>
<tr>
<td>1E Scholarship Finalist Presentations</td>
<td></td>
<td>Mineral ABC</td>
</tr>
<tr>
<td>Interactive Presentations I: Earthquakes and Construction &amp; Rehabilitation</td>
<td>Centennial Ballroom</td>
<td></td>
</tr>
<tr>
<td>12:15 pm - 1:30 pm</td>
<td>Lunch in Exhibit Hall</td>
<td>Centennial Ballroom</td>
</tr>
<tr>
<td>1:30 pm - 3:30 pm</td>
<td>Concurrent Technical Sessions Track 2</td>
<td>Centennial F</td>
</tr>
<tr>
<td>2A Concrete Dams II</td>
<td></td>
<td>Centennial G</td>
</tr>
<tr>
<td>2B Embankment Dams II</td>
<td></td>
<td>Centennial H</td>
</tr>
<tr>
<td>2C Sustain or Decommission: The Future for a Dam</td>
<td></td>
<td>Mineral DE</td>
</tr>
<tr>
<td>2D Monitoring</td>
<td></td>
<td>Mineral FG</td>
</tr>
<tr>
<td>2E Dam Safety I</td>
<td></td>
<td>Mineral ABC</td>
</tr>
<tr>
<td>Interactive Presentations II: Hydraulics &amp; Hydrology</td>
<td>Centennial Ballroom</td>
<td></td>
</tr>
<tr>
<td>3:30 pm - 4:00 pm</td>
<td>Break in Exhibit Hall</td>
<td>Centennial Ballroom</td>
</tr>
<tr>
<td>4:00 pm - 6:00 pm</td>
<td>Committee Meetings Session 3</td>
<td>Various</td>
</tr>
<tr>
<td>6:00 pm - 7:30 pm</td>
<td>Exhibitor Reception</td>
<td>Centennial Ballroom</td>
</tr>
<tr>
<td>7:30 pm - 9:30 pm</td>
<td>Young Professional/First-Time Attendee Networking Social</td>
<td>Live @ Jack’s, Denver Pavilions, 500 16th St.</td>
</tr>
</tbody>
</table>

#### Wednesday, April 22

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am - 5:00 pm</td>
<td>Registration Desk Open</td>
<td>Centennial Foyer</td>
</tr>
<tr>
<td>7:15 am - 8:15 am</td>
<td>Continental Breakfast in Exhibit Hall</td>
<td>Centennial Ballroom</td>
</tr>
<tr>
<td>8:30 am - 10:15 am</td>
<td>Plenary Session 2</td>
<td>Capitol Ballroom</td>
</tr>
<tr>
<td>10:15 am - 10:45 am</td>
<td>Break in Exhibit Hall</td>
<td>Centennial Ballroom</td>
</tr>
</tbody>
</table>
### 2020 Conference and Exhibition

**Thursday, April 23**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am - 2:00 pm</td>
<td>Workshop Registration Desk Open</td>
<td>Mineral Foyer</td>
</tr>
<tr>
<td>8:00 pm - 12 noon</td>
<td>Concurrent Workshops</td>
<td>Mineral A</td>
</tr>
<tr>
<td></td>
<td>1. Communication during the “Golden Hour” — Risk and Crisis Communication Strategies for Dam Safety</td>
<td>Mineral A</td>
</tr>
<tr>
<td></td>
<td>2. Probabilistic Flood Hazard Analysis</td>
<td>Mineral BC</td>
</tr>
<tr>
<td></td>
<td>3. Earthquake Shaking and Ground Failure Hazards for Dams, including Automated Real-time Inspection Prioritization</td>
<td>Mineral DE</td>
</tr>
<tr>
<td></td>
<td>4. Tailings Dam Safety Management and Engineer of Record</td>
<td>Granite</td>
</tr>
<tr>
<td></td>
<td>5. Evaluation Principles for the Monitoring of Dams and Their Foundations</td>
<td>Mineral FG</td>
</tr>
<tr>
<td>12 noon - 1:00 pm</td>
<td>Lunch</td>
<td>Capitol Ballroom 1-4</td>
</tr>
<tr>
<td>1:00 pm - 5:00 pm</td>
<td>Concurrent Workshops</td>
<td>Mineral A</td>
</tr>
<tr>
<td></td>
<td>1. Communication during the “Golden Hour” — Risk and Crisis Communication Strategies for Dam Safety (continued)</td>
<td>Mineral BC</td>
</tr>
<tr>
<td></td>
<td>2. Probabilistic Flood Hazard Analysis (continued)</td>
<td>Mineral DE</td>
</tr>
<tr>
<td></td>
<td>3. Earthquake Shaking and Ground Failure Hazards for Dams, including Automated Real-time Inspection Prioritization (continued)</td>
<td>Granite</td>
</tr>
<tr>
<td></td>
<td>4. Tailings Dam Safety Management and Engineer of Record (continued)</td>
<td>Mineral FG</td>
</tr>
<tr>
<td></td>
<td>5. Power Skills</td>
<td></td>
</tr>
</tbody>
</table>

**Friday, April 24**

**Field Tours**

Note: morning and afternoon field tours are identical

<table>
<thead>
<tr>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>8:00 am - 12 noon</td>
<td>Bureau of Reclamation Field Tour (extra charge)</td>
</tr>
<tr>
<td>1:00 pm - 5:00 pm</td>
<td>Bureau of Reclamation Field Tour (extra charge)</td>
</tr>
</tbody>
</table>
Tuesday, April 21 — 1:30 pm - 3:30 pm

CONCURRENT SESSIONS — TRACK 2

2A: Concrete Dams II

**Room: Centennial F**

Moderators: Mohammad Harir Ardebi, University of Colorado; and Stewart Vaghti, Geotechnical Consultants.

- Historical Construction Documentation Used to Evaluate an Internal Erosion PFM at Watauga Dam
  - Benjamin Webster, Stantec
  - Alan Rauch, Stantec
  - Jim Bryant, TVA
  - Caleb Douglas, TVA

- Cracked Embankment Erosion Testing
  - Peter Irey, USBR
  - Ted Howard, USBR

- Modeling of Internal Erosion in Earthen Embankment Dams with Non-Homogeneous Soil Parameters
  - Ali Presten, Geosyntec Consultants
  - Jai Panthai, Geosyntec Consultants
  - Lucas DeMelo, Geosyntec Consultants
  - Glenn Rix, Geosyntec Consultants

- Assessment of Internal Erosion of Embankment Dams – An Owner’s Perspective
  - Li Yan, BC Hydro

- Internal Erosion: Dam Safety, State-of-Practice, and Advancing the State-of-Art
  - Jonathan Fannin, University of British Columbia
  - Maxin Li, BC Hydro

Emergency Repairs to a 150+ Year-Old Dam in a Sensitive Environment

- Grady Hillhouse, Freeze and Nichols, Inc.
- Doug Byrum, Texas State University

- Predicted Sediment Transport for Operations at Nolichucky Dam
  - Filipo Bressan, WEST Consultants
  - Martin Teal, WEST Consultants
  - Curtis Joeady, TVA

- New Guidelines and Processes for Development of Additional Water storage in the U.S.
  - Kayla Ramney, HDR
  - Blaine Dwyer, HDR

A New Sediment Modeling, Monitoring and Forecasting Framework for Dam Removal Based on Lessons Learned from Elwha River Restoration Experience

- Jennifer Bountray, USBR
- Timothy Randle, USBR
- Chris Bromley, Scottish Environment Protection Agency
- Colin Thorne, Nottingham University

- Mill Pond Dam Removal and Habitat Restoration: The Unbreakable Stream
  - Lloyd Dixon, Seattle City Light

2B: Embankment Dams II

**Room: Centennial G**

Moderators: James McHenry, FERC; and Deb Miller, Miller Geotechnical Consultants.

- Levee Certification: How Advanced Engineering Techniques Can Save $$$
  - Brad Bettag, Wood
  - Chris Ide, Wood
  - Thay Patton, Colorado Water Conservation Board

- CFD Modeling for Spillway Assessments
  - Benjamin Israel Devadason, Gannett Fleming
  - Paul Schweiger, Gannett Fleming

- Missouri River Levee 2D HEC-RAS Breach Inundation Modeling
  - Dan Jones, USACE
  - Ben Lorenzen, USACE

- After the Flood – Modeling Levee Breach Affected Areas in the Missouri River Valley
  - Andrew McCoy, HDR
  - Rusty Jones, HDR
  - Dave Claman, Iowa DOT
  - Bill Kaufman, Iowa DOT

- VBA-Based Tool Keeps Dam Operators Ahead of the Curve
  - Jesse Potrowski, Mead & Hunt
  - Shawn Puzen, Mead & Hunt
  - Nick Hathaway, Mead & Hunt
  - Jen Schuetz, Mead & Hunt

- Development of a Hydrologic Database to Inform Future Spillway Designs and Risk Analyses
  - Kevin Ruswick, Schnabel
  - Elizabeth Isenstein, Schnabel

- Calibration through Transposition: Case Study: Cedar Rapids Iowa
  - Nicholas Thomas, HDR
  - Andy McCoy, HDR

- Successful Hydrologic Dam Safety Modeling for the Largest Corps Reservoir
  - Katherine Werner, USACE

2C: Sustain or Decommission

**Room: Centennial H**

Moderators: Jennifer Bountray, USBR; and Kevin Schneider, Barnard Construction Company.

- Coming Full Circle: Anchoring Down and Lifting Off at Lock #27
  - Brian Barkauskas, Nicholson Construction
  - Tony Martinez, Nicholson Construction

- Fully Grouted and Vibrating Wire Piezometer Installations in Artesian and Karst Conditions at Mosul Dam
  - Georgette Hlepas, USACE
  - Victorino Panigagua, USACE
  - Massimo Malavolta, Trevi

- Innovations in Dam Instrumentation Monitoring to Reduce Risk
  - Loring Crowley, Schnabel Engineering
  - Alex Rutledge III, Schnabel Engineering
  - Mark Landis, Schnabel Engineering

- Practical Aspects of the use of Synthetic Aperture Radar for Dam Safety Monitoring Based on Three Years of Ground Truth
  - William Empson, USACE
  - David Cohen, Neva Ridge Technologies

- Sarah Gamm, National Geospatial-Intelligence Agency
- Baron Worsham, USACE
- Doug Bynum, Texas State University

- Non-Destructive Evaluation (NDE) for Condition Assessment of Concrete Dams
  - Larry Olson, Olson Engineering, Inc.
  - Lyndal Hazwood, Olson Engineering, Inc.

2D: Monitoring

**Room: Mineral DE**

Moderators: Philippe Bourdeau, Purdue University; and Amanda Sutter, USACE

- Are Storms Changing and What Does This Mean for PMP?
  - Bill Kappel, Applied Weather Associates
  - Doug Hultstrand, Applied Weather Associates
  - Geoff Muhlestein, Applied Weather Associates
  - Jake Rodel, Applied Weather Associates
  - Kristi Steinshilber, Applied Weather Associates

- Evaluating Dam Safety Incidents in a Risk Assessment Framework
  - Chris Graham, San Francisco PUC
  - Chris Graham, San Francisco PUC

- A Risk Priority Model for Dam Potential Failure Mode Ranking and Prioritization
  - Ali Reza Firoozfar, HDR
  - Hamid Reza Firoozfar, University of Tehran
  - Keith Moen, HDR

- FEMA Dam Safety Technical Assistance Program
  - Molly Finster, Argonne National Laboratory
  - Preston Wilson, FEMA
  - Jose Lara, California OES
  - Lesley Edgemon, Argonne National Laboratory
  - Kyle Pfeiffer, Argonne National Laboratory

2E: Dam Safety I

**Room: Mineral FG**

Moderators: Jacob Davis, USACE; and Seth Krause, WSP.

- Introducing Outcomes from ICOLD 15th International Benchmark Workshop on Numerical Analysis of Dams - Seismic Analysis of Pine Flat Concrete Dam
  - Jerry Salamon, USBR
  - Christopher Wood, USBR
  - Mohammad Ardebi, University of Colorado at Boulder
  - Richard Maim, KTH Royal Institute of Technology
  - Giorgia Faggiani, Ricerca sul Sistemo Energetico - RSE S.p.A.

- Numerical Modeling of Walters Dam on Address AAR-Related Pressure Failure Modes
  - Michael Esposito, HDR
  - Farzad Abazadeh, HDR
  - Ed Luttrell, HDR
  - Brian Reinicker, HDR
  - Brad Keaton, Duke Energy

- A Half Century of Arch Dams Design with Trial-Load Method
  - Glenn Tarbox, Stantec
  - Larry Nuss, Nuss Engineering, LLC
  - Jerry Salamon, USBR

- Practical implementation of the Fluid Domain for Dam-Water-Foundation Interaction in LS-DYNA
  - Osmar Fenne, BC Hydro
  - Brent Bergman, BC Hydro

- Stability Improvement of Lauzous Arch Dam: Opening of the Dam-Foundation Interface of a Concrete Arch Dam in a Wide Valley
  - Emmanuel Robbe, EDI

- Monitoring and Recovering from a Flood Event – Moccasin Dam Flood Event
  - Adam Zajszczewicz, University of Colorado

- Maximizing Value: Strategic Investment and Risk Management for Dam Owners
  - Ali Reza Firoozfar, HDR
  - Hamid Reza Firoozfar, University of Tehran

- Lessons Learned from Elwha River Restoration Experience
  - William Empson, USACE
  - David Cohen, Neva Ridge Technologies
  - Sarah Gamm, National Geospatial-Intelligence Agency
  - Baron Worsham, USACE

- Seismic Analysis of Pine Flat Dam
  - Mohammad Ardebi, University of Colorado at Boulder
  - Richard Maim, KTH Royal Institute of Technology
  - Giorgia Faggiani, Ricerca sul Sistemo Energetico - RSE S.p.A.

- Innovative Artificial Intelligence Monitoring Techniques Can Save $$$
  - Alex Rutledge III, Schnabel Engineering
  - Mark Landis, Schnabel Engineering

- Practical Aspects of the use of Synthetic Aperture Radar for Dam Safety Monitoring Based on Three Years of Ground Truth
  - William Empson, USACE
  - David Cohen, Neva Ridge Technologies
  - Sarah Gamm, National Geospatial-Intelligence Agency
  - Baron Worsham, USACE

- Non-Destructive Evaluation (NDE) for Condition Assessment of Concrete Dams
  - Larry Olson, Olson Engineering, Inc.
  - Lyndal Hazwood, Olson Engineering, Inc.

Interactive Presentations II

**Hydraulics & Hydrology**

- Effects of Transverse Slopes of Steps on Flow over Stepped Spillways
  - Abhag Ali, University of Sulaimani
  - Moses Karamaiz, University of Nevada, Las Vegas
  - Omed Yusuf, University of Sulaimani

- Two-Dimensional Modeling of the Ka Loko Dam Failure Flood
  - Mustafa Altinakar, Argonne National Laboratory
  - Marcus McGrath, NCCHME
  - Vijay Ramalingam, NCCHME
  - James Demby, Jr., FEMA

- Development of a Hydrologic Database to Inform Future Spillway Designs and Risk Analyses
  - Kevin Ruswick, Schnabel
  - Elizabeth Isenstein, Schnabel

- Calibration through Transposition: Case Study: Cedar Rapids Iowa
  - Nicholas Thomas, HDR
  - Andy McCoy, HDR

- Successful Hydrologic Dam Safety Modeling for the Largest Corps Reservoir
  - Katherine Werner, USACE

**Mineral ABC**

- Levee Certification: How Advanced Engineering Techniques Can Save $$$
  - Brad Bettag, Wood
  - Chris Ide, Wood
  - Thay Patton, Colorado Water Conservation Board

- CFD Modeling for Spillway Assessments
  - Benjamin Israel Devadason, Gannett Fleming
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  - Bill Kaufman, Iowa DOT

- VBA-Based Tool Keeps Dam Operators Ahead of the Curve
  - Jesse Potrowski, Mead & Hunt
  - Shawn Puzen, Mead & Hunt
  - Nick Hathaway, Mead & Hunt
  - Jen Schuetz, Mead & Hunt

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  - Andy McCoy, HDR

- Successful Hydrologic Dam Safety Modeling for the Largest Corps Reservoir
  - Katherine Werner, USACE
Wednesday, April 22 — 10:45 am - 12:15 pm
CONCURRENT SESSIONS — TRACK 3

3A: Concrete Dams III
Room: Centennial F
Moderators: Jerzy Salamon, USBR; and Hillery Verruturini, USBR

3B: Construction & Rehabilitation I
Room: Centennial G
Moderators: David Paul, Paul GeoTek Engineering; and Justin Williams, Stantec

3C: Emergency Preparedness
Room: Centennial H
Moderators: Sharon Krock, Schnabel; and Yulia Zakrevskaya, Stantec

3D: Tailings Dams II
Room: Mineral DE
Moderators: Benjamin Schmidt, Golder; and Sebnem Duzgun, Colorado School of Mines

3E: Dam Safety II
Room: Mineral FG
Moderators: Kathleen Bensko, FERC; and Emily Schwartz, Black & Veatch

Earthquake Engineering for Concrete Dams
Anil K. Chopra, University of California, Berkeley

Direct FE Method for Nonlinear Earthquake Analysis of Concrete Dams – Methodology
Arntje Lakke, Norwegian Geotechnical Institute

Direct FE Method for Nonlinear Earthquake Analysis of Concrete Dams – Implementation
Arntje Lakke, Norwegian Geotechnical Institute

Ground Motion Selection for Nonlinear Response History Analyses of Concrete Dams
Neal S. Kwang, The Cooper Union for the Advancement of Science and Art

Guatemala: Dam: Construction of Intreim Risk Reduction Measures
Sam Abbaszadeh, Stantec Inc.
Pu Yang, Stantec Inc.

Fake vs. Fact: How to Harness the Power of Social Media to Effectively Communicate with the Public and Press During a Dam Crisis
Jes Gearing, Gannett Fleming

EAPs for Levees, A Cost Effective way to reduce Life Safety Risk for Levees
Thomas Terry, USAE
Todd Kilpatrick, Levee District 12
William Smiley, USAE Glenn Fulton, USAE

Utilizing Innovative Concrete Techniques to Construct Complex Spillway Structures
James Murphy, Gannett Fleming, Inc.
Timothy Weber, Gannett Fleming, Inc.

Cheesman Dam Upstream Control: Hydraulic System Failure Analysis
Antonio Flori, Denver Water
Jeff Archer, Denver Water

Levees: Vision-Based Inspection and Health Assessment of Levees
Adda Athanasopoulos-Zekkos, University of California, Berkeley

Rehabilitation Design for Dispersive Soil in Levees
Arda Oktay, Arcadis U.S., Inc.
Michael Landis, IBWC, U.S. Army Corps of Engineers

The Consequence of Over Simplification of Seepage Models
Michael Hughes, AECOM
Abbas Abdollahi, AECOM
Mehrashk Meidani, AECOM
Richard Millet, AECOM

Erosion Resistance Evaluation of Biopolymer Enhanced Levee by Full Scale Experiments
Dukwon Lee, Korea Institute of Civil Engineering and Building Technology

Rehabilitation for Dispersive Soil in Levees
Arda Oktay, Arcadis U.S., Inc.
Michael Landis, IBWC, U.S. Army Corps of Engineers

Assessment of Freeboard and Embankment Protection for a Coastal-Inland Hybrid Levee
System in South Florida
Nirjar Pharr, Wood Environment and Infrastructure Solutions Inc.

Update on the National Dam Safety Levee Initiative
Phoebe Perell, USAE

Little Falls in Name Only - Understanding Big Asset Risks for a Low Hazard Dam
M. Jonathan Harris, Schnabel Engineering
Paul Linnemann, Avista Corporation
Thomas Hepler, Schnabel Engineering

Evaluating Complex Systems as part of a Semi-Quantitative Risk Assessment on the Nation’s Tallest Dam
Eric Halpin, Halpin Consultants
Dan Osman, HDR, Inc.
Doug Boyer, FERC
Elena Sossenkina, HDR Inc.

The Making of the Spencer Dam Failure Independent Investigation
Mark Baker, Dam Crest Consulting
John Trojanowski, Trojanowski Dam Engineering
Marty Teal, WEST Consultants
Rob Ettema, Colorado State University

Interactive Presentations III
Mineral ABC

Embankment Dams
Constant Volume Ring Shear Test to Measure Soil Undrained Strength for the Full Range of Strains
Blake Armstrong, USBR
Robert Rinehart, USBR

Influence of In-Situ Strength Interpretations on Embankment Dam Stability Analyses
Dino Bernardi, California DWR
Ian Maki, California DWR
Robert Jaeger, California DWR
Stephen Neumayer, California DWR

Seismic Stability Analysis of an Embankment Dam Founded on Low Plasticity Glacial Silt
Robert Rinehart, USBR; Justin Hall, USBR
Derek Wittwer, USBR

Probabilistic Methods for Post-Earthquake Slope Stability Analysis of a Hypothetical Embankment
Yoxuan Sun, Stantec Inc.
Xuan Wu, Stantec Inc.
Fu Yang, Stantec Inc.
Sam Abbaszadeh, Stantec Inc.

Foundations
Evaluating Rock Foundations Beneath Aging Large Concrete Dams: Two Case Studies from British Columbia, Canada
Andrew Bayliss, Jr., Stantec
Lucy Philip, Stantec

Treating Excessive Seepage at the Dam Abutment of the Neelum Jhelum Hydroelectric Project
Joseph Kovacich, Stantec
Masrour Kizilbash, Stantec
Imran Hussain, Associated Consulting Engineers Pakistan
Nasir Abbas, National Engineering Services Pakistan (Pvt) Limited

Levees: Vision-Based Inspection and Health Assessment of Levees
Adda Athanasopoulos-Zekkos, University of California, Berkeley

Omaha Regional Resiliency Analysis: Implications of the 2011 and 2019 Flood Events
Robert Beduhn, HDR

 Rehabilitation for Dispersive Soil in Levees
Arda Oktay, Arcadis U.S., Inc.
Michael Landis, IBWC, U.S. Army Corps of Engineers

The Consequence of Over Simplification of Seepage Models
Michael Hughes, AECOM
Abbas Abdollahi, AECOM
Mehrashk Meidani, AECOM
Richard Millet, AECOM

Erosion Resistance Evaluation of Biopolymer Enhanced Levee by Full Scale Experiments
Dukwon Lee, Korea Institute of Civil Engineering and Building Technology

Rehabilitation Design for Dispersive Soil in Levees
Arda Oktay, Arcadis U.S., Inc.
Michael Landis, IBWC, U.S. Army Corps of Engineers

Assessment of Freeboard and Embankment Protection for a Coastal-Inland Hybrid Levee
System in South Florida
Nirjar Pharr, Wood Environment and Infrastructure Solutions Inc.

An Experimental Study Using a Real-scale Model Test on the Effect of Biopolymer-mixed Soils on Levee Stability against Overflow Breach
Hyoeseop Woo, Gwangju Institute of Science and Technology
Joongh Kang, Korea Institute of Civil Engineering and Building Technology
Dongwoo Ko, Korea Institute of Civil Engineering and Building Technology

The Consequence of Over Simplification of Seepage Models
Michael Hughes, AECOM
Abbas Abdollahi, AECOM
Mehrashk Meidani, AECOM
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Hyoeseop Woo, Gwangju Institute of Science and Technology
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The Consequence of Over Simplification of Seepage Models
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Abbas Abdollahi, AECOM
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Erosion Resistance Evaluation of Biopolymer Enhanced Levee by Full Scale Experiments
Dukwon Lee, Korea Institute of Civil Engineering and Building Technology

Rehabilitation Design for Dispersive Soil in Levees
Arda Oktay, Arcadis U.S., Inc.
Michael Landis, IBWC, U.S. Army Corps of Engineers

Assessment of Freeboard and Embankment Protection for a Coastal-Inland Hybrid Levee
System in South Florida
Nirjar Pharr, Wood Environment and Infrastructure Solutions Inc.

An Experimental Study Using a Real-scale Model Test on the Effect of Biopolymer-mixed Soils on Levee Stability against Overflow Breach
Hyoeseop Woo, Gwangju Institute of Science and Technology
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The Consequence of Over Simplification of Seepage Models
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Wednesday, April 22 — 1:30 pm - 3:30 pm
CONCURRENT SESSIONS — TRACK 4

4A: Earthquakes (Embankments)
Room: Centennial F
Moderators: Michael Beatty, Beatty Engineering LLC; and Zara Plasencia, Zamini, Inc.

- Conklingville Dam: A Multi-Dimensional Exploration
  David Railback, Schnabel Engineering
  Michael Taylor, Schnabel Engineering
  Keith Toombs, Schnabel Engineering
  Frederic Snider, Schnabel Engineering

- A Novel Approach for Developing Regional Probable Maximum Precipitation Guidelines
  Katie Ward, MetStat, Inc
  Victoria Bohls, MetStat, Inc
  Tye Parzybok, MetStat, Inc
  Alyssa Brierley, MetStat, Inc
  Robert McLean, BC Ministry of Forests, Lands, Natural Resource Operations and Rural Development
  Angela Duren, USACE

- Discharge Frequency for John Martin Dam Using Systematic, Historic, and Paleoflood Data
  Derek Kindred, USACE
  Meghann Wygonik Kinkley, USACE
  Justin Pearce, USACE
  Michael Thompson, USACE

- British Columbia Extreme Flood Project
  Robert McLean, BC Ministry of Forests, Lands, Natural Resource Operations and Rural Development
  Zoran Micovic, BC Hydro Corp.
  Victoria Sankovich Bohls, MetStat Inc.
  Mel Schaller, MGS Engineering Consultants

- Mosul Dam Emergency Stabilization Three Year Final Project Update
  William Emerson, USACE
  Wade Anderson, USACE
  Georgette Hiepas, USACE
  David Sawitzki, AECOM
  Juan Vargas, AECOM
  Carlo Crippa, Trevi
  Pierlugi Miconi, Trevi

- Dam Safety War Stories
  William Emerson, USACE

- Geologic Factors in the Siting and Conceptual Layout of the Aggregate Quarry at the Gross Reservoir Expansion Project
  Dan Meier, AECOM
  Daug Yadon, AECOM
  Phil Sirles, Collier Geophysics
  Paulo Virreira, Denver Water
  Felipe Garcia, Stantec

- Exploring Reservoir Operations: Development and Use of Induced Surcharge Envelope Curves
  Kevin Foget, Wust Consultannts Ltd.

- Challenges in Estimating IDFs for Three Basins in the California Sierra Nevada
  Carmen Bernedo, Stantec
  Vik Iso-Ahola, Stantec
  Adam Mazurkiewicz, San Francisco PUC
  Chris Graham, San Francisco PUC
  Adriano Bello, San Francisco PUC
  Christopher Gifford-Miears, Stantec

- Floodwalls and Closure Structure Design – A Collection of Lessons Learned
  Wesley Jacobs, Sr., HDR Engineering, Inc.
  Jason Abendroth, HDR Engineering, Inc.

- Abandonment Issues for Power Plants Adjacent to Urban Levees
  Terry Sullivan, U.SACE

- Relief Well Flow In the Real World (It’s Complicated!)
  Mary Knopf, Wood
  Randy Cook, Jr., Wood
  Jo Tucker, Wood

- 3D Evaluation of Levee Cutoff Wall End-Around Underseepage for Fully-Penetrating Walls
  Robert Jaeger, California DWR
  Joseph Weber, Loyola
  Marymount University

- Missouri River - 2019 Spring Flood - Levee Breach Repairs
  Curtis Miller, USACE
  Dan Pridal, USACE
  Rick Podraza, USACE
  Roger Kay, USACE
  Chris Swendsen, USACE

- Consequence Categorization for Dam Safety Semi-Quantitative Risk Assessments
  Gregg Scott, Scott Consulting, LLC
  William Fiedler, HDR

- What the f-N? Clarifying Misconceptions about f-N and F-N Risk Plots
  David Margo, USACE

- Risk-Based Approach and 3D Modelling Clarify Artesian Pressure Risk – An Example from a FERC RIDM Pilot Project
  Robert Cannon, Schnabel Engineering
  Fredric Snider, Schnabel Engineering
  Adam Monroe, Consumers Energy
  Michael Tellen, Consumers Energy
  Marianne Walter, Consumers Energy

- Expert Elicitations for Risk Analysis and How to Improve Them
  Gregory Baecher, University of Maryland College Park
  Robert Patev, USACE

- An Enhanced Approach to SQRA Risk Matrices
  David Bowles, RAC Engineers and Economists, LLC and Utah State University
  Sanjay Chauhan, RAC Engineers and Economists, LLC

- Style, Brand, and Opportunity
  Trevor Mugele, W.W.Wheeler
  Todd Street, W.W.Wheeler
  Jerred Hoffman, Fort Lyon Canal Company

- What Is Artemis? Clarifying Misconceptions about f-N and F-N Risk Plots
  David Margo, USACE

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  Sanjay Chauhan, RAC Engineers and Economists, LLC
## 5A: Earthquakes (Concrete)

**Room: Centennial F**

- Moderators: Najib Bouaanani, Polytechnique Montreal; and Alex Walsh, Gannett Fleming

### Prediction of Hydrodynamic Loads on Dams and Spillway Gates - Preliminary Findings from a Physical Test Facility
- Josh Mortensen, USBR
- Jerzy Salamon, USBR

### Evaluation of Seismic Hazard for Ghazi-Barotha Hydropower Project of Pakistan
- Muhammad Usman, National University of Sciences and Technology
- Muhammad Zain, National University of Sciences and Technology
- Qazi Mubasher Maqsood, Water and Power Development Authority of Pakistan
- Altaf Iqbal, Associated Pakistan Development Authority of Water and Power Projects Pakistan

### On the Effects of Vertical Earthquake Accelerations on Seismic Demands Within Dams and Appurtenant Structures
- Najib Bouaanani, Polytechnique Montreal
- Sayouba Tinta, Polytechnique Montreal
- Siamak Ohadi, Polytechnique Montreal

### Case Studies on the Seismic Performance of Vertical Lift Gates
- Ccee Chan, Hatch
- James Rutherford, Hatch

### Seismic Stability Assessment of Morning-Glory Structures Including Rocking and Rebar Debonding
- John Werner, Hatch James Rutherford, Hatch
- Colleen Woods, Hatch
- Maximiliano Mantola, Hatch

## 5B: Construction & Rehabilitation III

**Room: Centennial G**

- Moderators: Michael Miller, USACE; and Nick Patch, Clark Bros. Inc.

### 12 Lessons Learned From 12 Years of Rehabilitating Small Urban Embankment Dams
- Jeff Blass, AECOM

### An Innovative Soil-Cement Gravity Design
- Pete Nix, Tetra Tech

### Best Value Procurement Process for the Chimney Hollow Reservoir Project
- Joe Donnelly, Northern Water
- Jeff Drager, Northern Water
- Chris Mueller, Black & Veatch
- Jeff Bair, Black & Veatch
- David Bentler, Black & Veatch
- Don Montgomery, Stantec

### QA/QC in Dam Safety Construction Projects: Check the Box and Forget it or Something Actually Worth Careful Consideration?
- Frank Blackett, FERC

### Implementation of a Statewide Dam Construction Monitoring Plan
- Chad Davis, HDR

### Asphalt Core Embankment Dams (ACED) - Why, Where and How?
- David Wilson, WALO USA
- Damian Mueller, WALO International AG

### Construction Risk Management and Contingency Budget Allocation for Hydraulic Asphalt Concrete Core Rockfill Dam
- Mark Thompson, Black & Veatch
- David Bentler, Black & Veatch
- Joe Donnelly, Northern Water
- Don Montgomery, Stantec

### An Update on the Chimney Hollow Hydraulic Asphalt Core Rockfill Dam
- Donald Montgomery, Stantec
- Christine Weber, Stantec
- Winnie Kim, Stantec

### West Silver Basin Dam - A Rockfill Dam with Asphaltic Concrete Central Core
- Michael Zusi, AECOM
- Bill Snyder, AECOM
- Daniel Swanson, AECOM
- Jose Martiniez, Freeport-McMoRan Morenci Inc. USA

### Hydro-Québec Experience in Asphalt Core Dams And Dykes: A Great Accomplishment After Five Years of Impoundment
- Jean-Pierre Tournier, Hydro-Québec

### Effective Emergency Exercise Planning Practices
- Kelly Strife, Gannett Fleming
- Alicia Baehr, Gannett Fleming

### Moccasin Dam Flood Event, March 22, 2018 – Damage Assessment, Engineering Design and Construction of Interim Repair and Improvement
- Ted Allen, San Francisco PUC
- Jimmy Leong, San Francisco PUC

### Public Safety Signage - Best Practices
- Paul Meeks, Worthington Products Inc.

### Solutions for Eliminating the Hazardous Hydraulic Roller at Low Head Dams
- Paul Schweiger, Gannett Fleming
- Steve Davidheiser, Gannett Fleming

### Creation of a Database of Low-Head Dams in the U.S.
- Rollin Hotchkiss, Brigham Young University

## 5C: Embankment Dams III

**Room: Centennial H**

- Moderators: John France, JWF Consulting LLC; and Joels Malma, USBR

### Characterization and Evaluation of Potentially Movable Rock Blocks for Foundation Stability Analyses at the Gross Reservoir Expansion Project
- Erik Newman, AECOM
- Dan Meier, AECOM
- Doug Yadon, AECOM
- Paulo Virreia, Denver Water

### 2017-2019 Investigations of Subsurface Conditions at Mosul Dam
- Georgette Hlepas, USACE

### Scoggins Option 3 RCC Dam alternative, 3D Site Geology Model Using Leapfrog Works Software
- John France, Geosyntec Consultants
- Brandon Lanthier, Geosyntec Consultants
- Derek Morley, Geosyntec Consultants
- Holly Nichols, California DWR

### Failure, Emergency Response, Mitigation, and Engineering Geology of Guajataca Dam
- Todd Loar, USACE

### Spillway, Puerto Rico

### Dams and Spillway Gates
- Donald Montgomery, Stantec
- Joe Donnelly, Northern Water
- David Bentler, Black & Veatch
- Jeff Drager, Northern Water

### Construction Monitoring Implementation of Consideration?
- Actually Worth Careful
- Forget it or Something
- Check the Box and
- Construction Projects:
- QA/QC in Dam Safety
- Construction Projects: Check the Box and
- Forget it or Something
- Actually Worth Careful Consideration?
- Frank Blackett, FERC
- Implementation of a Statewide Dam Construction Monitoring Plan
- Chad Davis, HDR
- Asphalt Core Embankment Dams (ACED) - Why, Where and How?
- David Wilson, WALO USA
- Damian Mueller, WALO International AG
- Construction Risk Management and Contingency Budget Allocation for Hydraulic Asphalt Concrete Core Rockfill Dam
- Mark Thompson, Black & Veatch
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