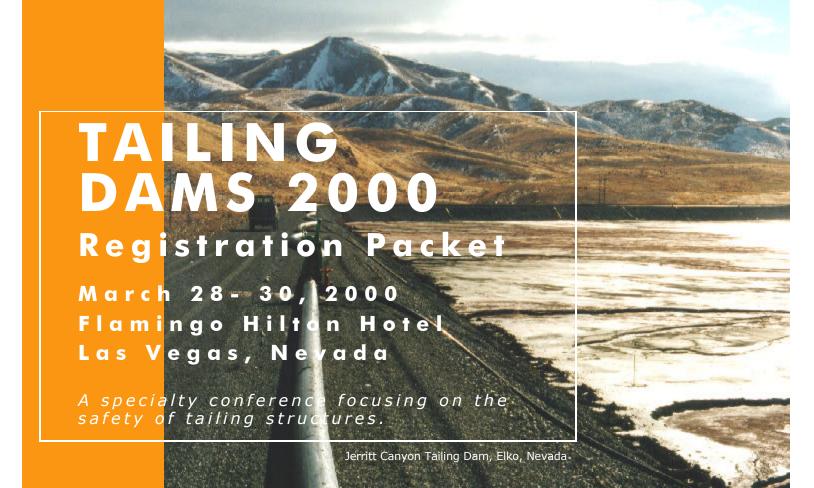
Association of State Dam Safety Officials 450 Old Vine Street Lexington, KY 40507

REGISTER NOW FOR TAILING DAMS 2000

REGISTER ON THE WEB AT WWW.DAMSAFETY.ORG



TAILING DAMS 2000

March 28-30, 2000 Flamingo Hilton Hotel Las Vegas, Nevada

Conference Registration

To pre-register for the conference, please mail the enclosed registration form to:

ASDSO 450 Old Vine St. 2nd Floor Lexington, KY 40507

or Fax To: (606) 323-1958

You may also register via the Internet at ASDSO's web site:

www.damsafety.org

What You Will Get at the Conference

- More than 12 hours of educational instruction conducted by experts in several technical fields related to engineering, dam safety, and tailing structures. Conference participation will qualify you for professional development hours (PDH's).
- Opportunities to network with over 300 dam safety professionals from the U.S. and several foreign countries.
- Admission to the exhibit show featuring the latest in technology, services and design ideas.

- Complete conference proceedings, and participants list, along with information on publications and resources for further training in the area of tailing dams and dam safety.
- Admission to all conference technical sessions and food functions, and the opportunity to sign up for the post-conference field trip.

The Flamingo Hilton Hotel

While situated in the center of all the action and excitement that is the Las Vegas Strip, the Flamingo Hilton is a world apart, featuring an enclosed 15 acre tropical garden with meandering pools and waterfalls. Outdoor amenities include a \$30 million pool and garden complex with five swimming pools, four lighted tennis courts, landscaped walking paths, a complete Health Spa, and golf at the nearby Las Vegas Hilton Country Club. Along with the large traditional casino, the Flamingo Hilton stages two shows, the "Great Radio City Spectacular" with the Radio City Rockettes, and "Forever Plaid", a 1950's style musical production.

In-house restaurants include Italian, Chinese, Japanese, and Continental cuisines, plus a steak house, a coffee shop, and the famous Paradise Garden Buffet.

The Flamingo Hilton is offering a Tailing Dams Conference rate of \$99 single or double occupancy. Please make hotel reservations by calling the Hilton directly at (702) 733-3111. Rooms are being held for ASDSO until Friday, March 3, 2000. Reservations made after that date will be on a space-available basis.

Guest Registration

Spouses and other guests are welcome and encouraged to register for the conference and attend the nightly receptions and the luncheon on March 29. The fee for guest registration is \$40.

Field Trip to Barrick Bullfrog Gold Mine, Beatty, Nevada

Barrick Bullfrog Mine is a gold and silver mining operation located approximately two hours northwest of Las Vegas near Beatty, Nevada and Death Valley, California. Bullfrog utilizes a mining operation using a cyanide lixiviant process for gold and silver extraction. The mine will begin closure and reclamation during 2000.

On the field trip, you will be visiting the lined tailings impoundment, lined reclaim ponds and portions of the mill. The tailings facility is a 4-celled, 75 foot high, geomembrane lined structure. The total capacity of the tailing facility is approximately 20,000 acre-feet. Along with viewing the dams and mill, there will be an informal presentation on how the gold and silver are mined and processed.



Barrick Bullfrog Gold Mine Tailing Dam

Thursday, March 30, from 9:00 am to 3:00 pm. Cost: \$40 per person includes deluxe round trip transportation, guided tour, and a box lunch.

Exhibit and Sponsorship Opportunities

Thirty-six 8 X 10 exhibit spaces are available for the Tailings Dams 2000 Conference. The \$475 exhibit fee includes one fully equipped 8 x 10' exhibit space and one free registration to the conference.

Sponsorships are also available for this first annual specialized ASDSO conference. Sponsors who contribute a minimum of \$350 will receive name recognition throughout the conference, as well as one free meeting registration.

Please consider this opportunity to participate in the Tailing Dams 2000 conference and showcase your company's products or services, sponsor a conference event, and make valuable contacts among the growing dam safety community. If you would like to reserve an exhibit space or sign up as a conference sponsor, please contact Susan Sorrell, Conference Coordinator at 606/257-5146.

Special Needs

ASDSO welcomes participants with special needs. Please call Susan Sorrell. Conference Coordinator at (606) 257-5146 to discuss arrangements.

Questions?

Call ASDSO at (606) 257-5146 E-Mail to info@damsafety.org

TAILINGS DAMS 2000 AGENDA

Tuesday, March 28, 2000

8:30 am - 10:00 am

General Session

Chair: Terry Arnold, URS Greiner Woodward-Clyde, Denver, CO

Welcome/Nevada Perspective
Jason King, P.E., Chief, Engineering & Dam
Safety, NV Division of Water Resources,
Carson City, NV

Thirty Years of Tailings Experience – What Have We Learned?
George H. Glos, P.E., District Manager, PSI, Tempe, AZ

Keynote: Tailing Dams Safety Steven G. Vick, Geotechnical Consultant, Bailey, CO

10:30 am - 12:00 nn

Concurrent Session A: Seismic Issues Chair: John Fredland, Mine Safety & Health Administration, Pittsburgh, PA

Selection of Hydrologic and Earthquake Design Criteria for Tailings Dams Dr. Maciej Szymanski, Vice President; AGRA Earth & Environmental, Mississauga, Ontario; Todd E. Martin, Senior Geotechnical Engineer; and Dr. Michael P. Davies, P.Eng., P. Geo, Senior Geotechnical Consultant, AGRA Earth & Environmental, Burnaby, British Columbia.

Steady-State Liquefaction Susceptibility of High Hazard Upstream-Constructed Coal Refuse Disposal Facilities Blaise E. Genes, Geotechnical Engineering Manager, Almes & Associates, Inc., Export, PA

Predicting the Deformation of Tailings Dams Resulting From Earthquake Liquefaction Using Real-Time Numerical Modeling Rod N. Kostaschuck, M. Eng., P.Eng., and Knight Piesold, Ltd., Vancouver, British Columbia; and Dr. Peter M. Byrne, P.Eng., Professor of Civil Engineering, University of British Columbia, Vancouver, British Columbia

Mr. John M.T. Wilkinson, M.A.Sc., P.Eng.,

10:30 am - 12:00 nn

Concurrent Session B: Reclamation Part I

Disturbance + Tailing + Reclamation = An Oasis

Stephen G. Shetron, Ph.D., CPSSc, Professor Emeritus, Michigan Technological University, Houghton, MI; and Gary J. Goodman, Senior Civil Engineer, Cleveland Cliffs Co., Ishpeming, MI

Mining Legacy Restored: Key to Success of the Bradley Tailing Diversion and Reclamation Project Christpher N. Hatton, P.E., Project Engineer, and William S. Eaton, Ph.D., Project Manager, URS Greiner Woodward Clyde, Denver, CO; David Morrey, Ph.D., President, DMA LLC, Englewood, CO; and Dan Burnham, Super Fuel Response Consultant, Business Resource Corporation, Fairfax, VA

Reducing Dam Rehabilitation and Reclamation Costs: Innovative Contract Methods Dale Evans, Envirocon, Golden, CO

1:30 pm - 3:00 pm

Concurrent Session C: Design, Construction, & Operation, Part I

Chair: Jerald LaVasser, Washington Department of Ecology, Olympia, WA

Overview of Current Technical Issues in Tailings Dam Design
George H. Gardner, Jr., Professional Civil Engineer, and Kelvin Wu, Chief, Mine Waste/Geotechnical Engineering, Mine Safety and Health Administration, Pittsburgh, PA

Tailing Dams & Tailing Basin Management Philip B. Solseng, Vice President, Barr Engineering Co., Minneapolis, MN Perimeter Embankments to Increase Capacity, Mitigate Subsidence Impacts, and Abandon Coal Refuse Impoundments Barry K. Thacker, P.E., Geo/Environmental Associates, Inc., Knoxville, TN

1:30 pm - 3:00 pm

Concurrent Session D: Better Dams Through Chemistry

Using Stabilized Fly Ash Liners to Neutralize Acidic Leachate Andrew D. Spear, P.E., Senior Engineer, PP & L, Inc., Allentown, PA

Aging in Tailing Dams Len Murray, Klohn Crippen Consultants, Richmond, British Columbia

Tailings: To Flood Or Not To Flood
Peri Mehling, Mehling Environmental
Management, Vancouver, British Columbia;
Franco Oboni, Oboni and Associates, Inc.,
Vancouver, British Columbia; and Iain
Bruce, Bruce Geotechnical Consultants,
Inc., Vancouver, British Columbia

3:30 pm - 5:30 pm

Concurrent Session E: Design, Construction, & Operation: Part II

Alumbrera Mine Tailings Management
System – Design and Construction,
Challenges and Achievements
Bruce S. Brown, PhD., Director and Rod N.
Kostaschuck, M. Eng., P.Eng., Senior
Engineer, Knight Piesold Ltd., Vancouver,
British Columbia; Mr. Leo R. Flanigan,
Engineering and Services Manager, and Mr.
Adrian D. Storey, Environmental Manager,
Minera Alumbrera Ltd.

Stabilization of Landslide at McElroy's Run Impoundment Using Auger Cast Grout Columns

F. Barry Newman, Geotechnical/Structural Group Manager, Thomas R. Gowers, Staff Geologist, and Bruce L. Roth, Lead Engineer, GAI Consultants, Inc., Monroeville, PA; and Ralph E. Curtiss, Engineer, Allegheny Energy, Greensburg, PA Foundation Treatment of Stress Relief Fractures and Other Geologic Anomalies in a Tailings Embankment Cutoff Trench Richard J. Perin, P.E., Consol, Inc., Pittsburgh, PA

Design and Operational Practice to Aid Closure of Mine Processing and Waste Disposal Facilities Dave Bentel, Pr.Eng. (SA), Dale Ortman, P.E., and Jeff Parshley, R.G., SRK Consulting, Reno, NV

3:30 pm - 5:30 pm

Concurrent Session F: Stakeholders' Perspectives: Owner/Regulator/Engineer

Design and Construction of Hydraulically-Placed Beneficiation Sand Tailings Dams for Florida Phosphate Clay Settling Areas Deedra M. Allen, J.D., P.E.; IMG-Agrico of Florida, Jeffrey A. Beriswill, P.E. and Thomas J. Leto, P.E., Ardaman & Associates, Bartow, FL

Waste Clay Ponds in Florida – Regulatory Status Stephen H. Partney, P.E., Professional Engineering Admin., Dept. of Environmental Protection, Tallahassee, FL

A New Concept for Tailings Dams
Alberto M. Scuero, General Manager, and
Gabriella L. Vaschetti, Manager, CARPI
TECH S.A., Switzerland; and John A.
Wilkes, President, CARPI USA, Roanoke, VA

California Experience with Dams for Storing Mine Tailings Ronald E. Delparte, Chief, Field Engineering Branch, and John H. Wright, Senior Engineer, Division of Safety of Dams, Sacramento, CA

5:30 pm - 6:30 pm

Reception in the Exhibit Area

Wednesday, March 29, 2000

8:30 am - 10:00 am

General Session

Mine Tailings Dams: When Things Go Wrong

Dr. Michael P. Davies, P.Eng., P. Geo., Todd Martin and Peter Lightall, AGRA Earth & Environmental, Burnaby, B.C.

Closure and Reclamation of a Gold Tailings Impoundment In an Arid Climate: A Case History

David A. Kidd, P.E., Golder Associates, Inc., Tucson, AZ; and Dan Kump, P.E., Barrick Bullfrog, Inc., Beatty, NV

Wednesday Keynote: Design, Construction and Operation Considerations Anwar Wissa, Ardaman and Associates, Orlando, FL

10:30 am - 12:00 nn

Concurrent Session A: In-Situ Testing and Site Assessment

Chair, Jason King, Nevada Division of Water Resources, Carson City, NV

Preliminary Geotechnical Investigation for Potential Commercial/Residendial Development of Gold Hills Mesa, Colorado Springs, Colorado Ronald Tanenbaum, Ph.D. and Steven McCullough, Dames & Moore, San Diego, CA

Rapid Piezecone Dissipation Testing for Tailings Investigations Kimberly Finke and Christopher N. Hatton, URS Greiner Woodward Clyde, Denver, CO; and Teresa Speigl, Phelps Dodge Morenci, Inc., Morenci, AZ

Consolidation Assessment of Mine Tailings Deposits Graham R. Greenaway, Knight Piesold,

10:30 am - 12:00 nn

Concurrent Session B: Reclamation Part II

Ltd., Vancouver, British Columbia

Chair: Stephen H. Partney Florida Department of Environmental Protection, Tallahassee, FL

Snip Mine Tailings Impoundment Closure and Reclamation

Raj Anand, Senior Project Engineer, and Tom Colbourne, Manager, Homestake Canada Inc., Vancouver, BC; and Robert Chambers, Manager of Environmental Affairs, Klohn-Crippen, Richmond, B.C.

Wind Erosion of Lead Mine Tailings Richard W. Stephenson, P.E., Ph.D., University of Missouri-Rolla, Rolla, MO

Closure of Boliden Apirsa's Failed Tailings
Pond
Charles Vess Colder Associates The

Charles Voss, Golder Associates, Inc., Redmond, WA

12:00 nn - 1:30 pm - Luncheon (Provided)

1:30 pm - 3:00 pm

Concurrent Session C: Design, Construction, and Operation Part III Chair: Chris Veesaert, U.S. Bureau of Reclamation, Denver, CO

Tailings Dams Defined, Described and Compared to Water Dams
Allen H. Gipson, Jr., P.E., P.G., Principal, Knight Piesold & Co., Denver, CO

Confessions of a Mine Regulator Peter Werner, Department of Environmental Quality, Helena, MT

Experience with Tailings Dams in the Georgia Kaolin Belt A. Terry McClean, Rich Humphries, Tom Francis, and Jim Daly, Golder Associates, Inc., Atlanta, GA

1:30 pm - 3:00 pm

Concurrent Session D: Instrumentation and Monitoring

Development and Review of Surveillance Programs for Tailings Dams Todd E. Martin, Senior Geotechnical Engineer; and Michael P. Davies, P.Eng., P. Geo, Senior Geotechnical Consultant, AGRA Earth & Environmental, Burnaby, British Columbia; and Maciej Szymanski, Vice President; AGRA Earth & Environmental, Mississauga, Ontario

Precise Automated Monitoring for Deformation of Dams Using the Global Positioning System (GPS) Barry Hillman, Ph.D. and David Rutledge, Condor Earth Technologies, Sonora, CA

Performance of an Upstream Constructed Slurry Disposal Reservoir During Abandonment by Covering with a 700 Ft High Durable Rock Fill David C. Cowherd, CEO and Chief Engineer, and Ioan J. Corda, Senior Engineer, DBC Engineers & Associates, Ltd., Centerville, OH; and Stephen Hatfield, Performance Coal Company, Whitesville, WV

3:30 pm - 5:00 pm

Concurrent Session E: Design, Construction and Operation Part IV

Chair: Kelvin Wu, Mine Safety & Health Administration, Pittsburgh, PA

Advances in the Design, Planning, Construction and Operation of Tailings Storage Facilities Steve Rice, P.Eng., Harvey McLeon, P.Eng., and Robert Chambers, Manager of Environmental Affairs, Klohn-Crippen Consultants, Ltd., Richmond, B.C.

Pennsylvania Technical Guidance for Declassification of Tailings Dams
David B.Wilson, P.E., Vice President,
Geotechnical Section, Gannett Fleming,
Inc.; and Dennis Dickey, P.E., Chief-Project
Review Section, and Larry R. McCauley,
P.E., Senior Civil Engineer, Division of Dam
Safety, Harrisburg, PA

Re-mining Coal Preparation Plant Slurry
Ponds
S.B. Michalski, and T.A. Gray, GAI

S.R. Michalski, and T.A. Gray, GAI Consultants, Inc., Pittsburgh, PA; J.W. Parkinson, CQ Inc., Homer City, PA; and D.F. Dargie, Pelletco Corp., Cohassat, MA

3:30 pm - 5:00 pm

Concurrent Session F: Risk Based Management

Two Decades of Dam Safety Office Experience in Applying a Risk Based Approach to Mine Impoundments Jerald LaVassar, M.S., P.E., Department of Ecology, Olympia, WA

Tailings Management Using Quantitative Risk Assessment
Iain Bruce, Bruce Geotechnical Consultants, Inc., Vancouver, British Columbial and Franco Oboni, Oboni Associates, Inc.

Dewatering Strategies at Clay-Lined Tailings Impoundments to Reduce Environmental Risk John Kramer and Robert Hoagland, Condor Earth Technologies, Inc., Sonora, CA

5:00 pm - 6:00 pm - Reception

Thursday, March 30

9:00 am - 3:00 pm

Field Trip to Barrick Bullfrog Mine

Exhibitors and Sponsors

Exhibitors and sponsors must complete a registration form and indicate that their conference registration fees (not including fees for extra activities) are covered by exhibit or sponsorship fees. Submit the completed form (with additional payments if applicable) to ASDSO in order to receive proper credit. If you are interested in sponsoring or exhibiting at the Conference, please contact ASDSO for the necessary information: sasorrell@damsafety.org