



TUESDAY, JULY 21

- 7:00 a.m. - 4:00 p.m. Registration
- 7:00 a.m. - 8:00 a.m. Coffee
- 8:00 a.m. - 9:30 a.m. Plenary Session III
- 9:00 a.m. - 7:00 p.m. Technology Hall Open
- 9:30 a.m. - 10:30 a.m. Break-Technology Hall

TRACKS					
Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Toby Wilson	John Rushing	Roger Thomas	Charles Pearre	Kevin Holden
Theme	The Corps As a BIM Leader	Paving Materials	Lessons Learned-Afghanistan	Dam Safety Program Update	Vegetation on Levees
10:30 a.m.-11:00 a.m.	Opening the Floodgates-BIM and Civil Works <i>Bob Bank and Jason Fairchild</i>	Rapid-Setting Materials for Small Crater Repairs <i>Lucy Priddy, ERDC</i>	Successes/Challenges in Executing Construction in Afghanistan <i>Reed Freeman and Col. O'Donovan</i>	Dam Safety Program Update-People Resources and Organization <i>Eric Halpin, HQ USACE</i>	Geophysical Investigation for Assessing Woody Vegetation Root Systems <i>Jose Llopis, ERDC</i>
11:00 a.m.-11:30 a.m.	Using BIM to Manage Change <i>Ken Cook</i>	Evaluation of Airfield Pavement Drainage Layers <i>Mariely Mejias, ERDC</i>		The Dam Safety Risk Management Center (DSRMC) <i>Eric Halpin and DSRMC Director (TBA)</i>	Geotechnical Considerations for Vegetation on Levees <i>Joe Dunbar, ERDC</i>
11:30 a.m.-12:00 p.m.	BIM Contract Language <i>Steve Hutsell</i>	Characterization of Granular Base Materials for Design of Flexible Pavement <i>Lulu Edwards, ERDC</i>	Bagram Theater Internment Facility-# 1 Success Story <i>Tom Chamberland</i>	Modeling, Mapping and Consequences Production Team <i>Ron Goldman, Vicksburg District</i>	Impacts of Vegetation on Levee Stability <i>Kyle McKay, ERDC</i>

Track	Dam & Levee Safety 2	Electrical and Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	Anjana Chudgar	Tim Paulus	Bob Billmyre	Nancy Blyer	Jody Dendurent
Theme	I-Walls—Phase III	Civil Works Mechanical Engineering	Energy		Slope Stability Studies
10:30 a.m.- 11:00 a.m.	Program Overview <i>Kent Hokens, St. Paul District, and Anjana Chudgar, CECW</i>	Sector Gates for Hurricane Storm Surge Protection <i>Timothy Paulus, CEMVP</i>	Energy Overview <i>Bob Billmyre, CECW-CE</i>	Geospatial Component of Real Estate Management Information System (REMIS) <i>Ron Santos, NAB</i>	Fully Softened Drained Shear Strength Testing for Long Term Slope Stability Assessment Using Drained Direct Shear (DS-S) Tests-San Antonio River Mission Reach Ecosystem Restoration Project <i>A. Branch</i>
11:00 a.m.- 11:30 a.m.	Initial Numeric Modeling Research Results <i>Kent Hokens, St. Paul District</i>	Cooling System Issues, Fish Barriers on the Chicago Ship and Sanitary Canal <i>Kiril Zombulev, CELRC</i>	Energy Legislation Mandates and Interpretations <i>Cyrus Nasser, DOE</i>	Using Geospatial Technologies for Emergency Management <i>Kevin Carlock, ERDC CRREL</i>	Long Term Slope Stability Assessment Using Fully Softened Drained Shear Strengths-San Antonio River Mission Reach Ecosystem Restoration Project <i>A. Branch</i>
11:30 a.m.- 12:00 p.m.	Research at ERDC <i>Kevin Abraham, ERDC</i>	Flow-Induced Vibration in a Sea Lion Exclusion Device <i>James Calnon, CENWP</i>	Army Compliance with EPACT 2005 and EISA 2007 <i>Dale Herron, CEERD</i>	Geospatial Component of Regulatory System <i>Jon Soderberg, HQ USACE</i>	A Failed Embankment and Repair in the Red River Valley <i>C. Behling</i>

Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Alan Stadler	Joan Pope	Dave Shepp	Roy Messaros	Chris Dunn
Theme	Concrete Advances 1	Data Acquisition/ Analysis	Water Quality	Navigation Modeling	Hydrologic Studies
10:30 a.m.- 11:00 a.m.	Electrokinetic Transport in Concrete <i>P. Mlakar</i>	Assessing the Relationship of Large-Scale Climatic Forcings to Nearshore Waves and Morphology <i>William Birkemeier</i> Shallow-Water Bathymetry Measurements Using Bar and Swath Imaging Radar (BASIR) <i>Jesse McNinch</i>	<ul style="list-style-type: none"> The Savannah Harbor ReOxygenation Demonstration Project <i>Margaret Tanner</i> Basin-Wide Consensus on Missouri River Recovery Activities <i>Mary Roth</i> PPSTA for Achieving Water Quality for Everglades Restoration <i>June Mirecki</i> Biologically Desirable Water Temp Through Spill Operations at Detroit Dam <i>Kathryn Tackley</i> 	<ul style="list-style-type: none"> Navigation Project Tune-ups using 2-Dimensional Computer Modeling <i>Mike Alexander</i> Dynamic Simulation of Barge/Train Interaction With Navigation Structures <i>Mark Hopkins</i> Numerical Lock Model <i>Richard Stockstill</i> A Numerical Study of the Flow Through the Culverts at John Day Lock <i>Allen Hammack</i> 	<ul style="list-style-type: none"> Tech Exchange with Japan's Ministry of Land Infrastructure Transport & Tourism <i>Thomas Evans</i> Specially Funded HEC Applications <i>Jeff Harris</i> Flood Risk Assessment of Complex Riverine Systems <i>Mike Deering</i> Innovative Data Collection for Mississippi River Flood <i>Phil Dye</i>
11:00 a.m.- 11:30 a.m.	Zone of Alkali/Aggregate Reaction in Carters Reregulation Dam, North Georgia <i>J. Sanders</i>	JALBTCX Capabilites and the CHARTS System <i>Eddie Wiggins</i>			
11:30 a.m.- 12:00 p.m.	Sequestering CO ₂ in the Built Environment <i>T. Holland</i>	Useful Wave Data Products and Tools to Access, Process and Analyze Hindcast and Measured Wave Data Sets <i>Robert Jensen</i> Wave Information Studies Pacific Reanalysis 2009 <i>Barbara Tracy</i>			
Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Structural Engineering - Civil Works	Structural Engineering - Military Programs	Surveying & Mapping
Room	205B	Little Theater	230B	207	225
Moderator	James Barton	Yazmin Seda-Sanabria	Phil Sauser	Rick Poepelman	James Garster
Theme	Water Management Forecasting	Risk Management	HSS Inspection and Evaluation	Blast Design and Progressive Collapse	Vertical Control and Datums Overview
10:30 a.m.- 11:00 a.m.	<ul style="list-style-type: none"> Impacts of Atmospheric Rivers on Flooding in Western Washington <i>Lawrence Schick</i> ESAP: A Toolset for Filtering and Analysis of ESP Forecasts <i>Randal Wortman</i> Estimation of Evaporation from Reservoirs <i>Steven Daly</i> Regulation of Lake Winnebago <i>Rich Gifaldi</i> 	Consequence-Based Top Screen Methodology for Dams <i>Enrique Matheu, Michelle Yezierski, Cris Hughes</i>	Mitigation of Corrosion Damaged Waterfront Retaining Structure <i>David Rackmales</i>	Blast Research on Commercially Available Wall Systems <i>Jon Shull, John Hoemann</i>	It's 8:00, do you know what your datum is? <i>James Garster and Mark Huber, USACE</i>
11:00 a.m.- 11:30 a.m.		A Comparative Study on Risk Assessment Methodologies for Security and Protection of Critical Infrastructure <i>Yazmin Seda-Sanabria, Enrique Matheu and D. Morgeson</i>	Tuttle Creek Dam Project Spillway Gate Bearing Arms <i>Marvin Parks</i>	UFC 3-340-02, Structures to Resist the Effects of Accidental Explosions <i>Patrick Acosta, William Zehrt</i>	
11:30 a.m.- 12:00 p.m.		Modeling, Mapping and Consequence (MM&C) Production Center <i>Goldman, Moran and Needham</i>	The Northwestern Division Spillway Gate Study <i>Bruce McCracken</i>	Progressive Collapse Analysis Example <i>Theron Peacock</i>	

12:00 p.m. - 1:30 p.m. Lunch—Technology Hall

TRACKS					
Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Bob Bank	Ray Brown	Erick Kozuma	Eric Halpin	Scott Michalak
Theme	Vendor Updates	Hot Mix Asphalt (HMA)	Contractor Performance	Dam Safety Organization & Tools	Levee Certification
1:30 p.m. - 2:00 p.m.	Autodesk <i>John Sullivan</i>	Asphalt Surface Treatments for Airfields <i>John Rushing, ERDC</i>	Review/Explanation of ACASS/CCASS/CPARS <i>Marilyn Kells</i>	Teton Dams—How Organizations Fail <i>Ririe Fontenelle and Nathan Snorteland, U.S. Bureau of Reclamation</i>	Performing Levee Certifications <i>Dan Frank, Louisville District</i>
2:00 p.m. - 2:30 p.m.	Bentley	Implementation of Superpave Mix Design Procedure for USACE Asphalt Pavement Projects <i>John Rushing, ERDC</i>			Levee Certification in Southern California <i>Ike Pace, Tetra Tech</i>
2:30 p.m. - 3:00 p.m.	Q&A	Foamed Asphalt Technology with High Rap Content <i>Wayne Hodo, ERDC</i>	Implementing Production Management in Military/Non-Military Infrastructure Programs <i>Fernando Espana, CornerCube Inc.</i>	Risk Tool Box for Consequences Analysis <i>Jason Needham, Hydraulic Engineering Center</i>	H&H Application to Certification (Red River) <i>Kendall Smith, Vicksburg District</i>
Track	Dam & Levee Safety 2	Electrical and Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	David Sullivan	Stan Pilinski	Frank Holcomb	Jeff Lillycrop	Robert Arnold
Theme	I-Wall Workshop	Civil Works Mechanical Engineering	Energy		Geotechnical issues
1:30 p.m. - 2:00 p.m.	Workshop on EC 1110-2-6066, Design/Evaluation of I-Walls <i>David Sullivan, Huntington District</i>	Risk and Reliability, Mechanical Component Performance Data <i>Stuart Foltz, CEERD</i>	Energy Master Plan <i>Drew Linck, Woolpert</i>	Geospatial Technologies Supporting the Modeling, Mapping & Consequence Program <i>Jason Sheeley, NWK</i>	Pore Pressure and Ground Water Flow Characteristics under Levees and Natural Slopes <i>R. Olson</i>
2:00 p.m. - 2:30 p.m.		Risk and Reliability, Marmot Dam <i>Chirag Mehta, INCA Engineers Inc.</i>	Army Installation Net Zero Energy Research <i>Frank Holcomb, CEERD</i>	How Navigation Business Line Uses Geospatial Technology <i>Jeff Lillycrop, ERDC CHL</i>	The 2008 Summer Flood at Mississippi River Dam No. 20 <i>C. Bishop</i>
2:30 p.m. - 3:00 p.m.		Hydraulic Cylinders at Winfield Locks and Dam <i>Brenden McKinley, CELRH</i>	Implementation of EPACT 2005, Lessons Learned <i>Jim Martin, CELRL</i>	Emergency Management Simulation Tool <i>Steve Diaz</i>	Marine Geotechnical Investigation and Trial Dredging for the Anchorage Harbor Deepening Project, Port of Anchorage, Alaska <i>J. Rajek</i>

Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Emily Carr	Greg Williams	Bob Sneed	SK Nanda	Mike Deering
Theme	Concrete Advances 2	Hurricane Analysis	Water Quality	Interior Drainage Modeling	Modeling Studies
1:30 p.m. - 2:00 p.m.	A New Class of Portland Cement Concretes With Improved Tensile Ductility and Durability <i>T. Rushing</i>	New Orleans Storm Surge Barrier, Coastal Analysis Issues <i>Maxwell Agnew</i>	<ul style="list-style-type: none"> Water Quality Monitoring Program at a Dam Reconstruction Project <i>Heather Jackson</i> Mecury Monitoring through Fish Testing <i>Daniel Holmberg</i> Plug Design for Backfilling of the Miami Canal <i>Kelly Legault</i> Modeling Techniques to Enhance Estuarine-Coastal Hydrodynamic System <i>Bernard Hsieh</i> 	<ul style="list-style-type: none"> Navigation Impacts of a Storm Protection Structure on the Gulf Intracoastal Waterway at New Orleans <i>Keith Martin</i> Project Features of The West Closure Complex <i>Tom Kirkeeng</i> Period of Record Analysis for Sizing Interior Drainage for Marlinton Local Protection Project <i>Belinda Weikle</i> Adapting HEC-RAS Hydraulic Models for the Interior Flood Study of the GIWW West Closure Complex <i>John Boeckmann</i> 	<ul style="list-style-type: none"> System-Wide Risk Analysis on Sacramento River Flood Control Project <i>Chris Bahner</i> Hawaiian Island Dam Failure Modeling <i>Martin Teal</i> Blanchard River Flood Control Studies <i>Lawrence Sherman</i> Cannon Air Force Base Modeling Using XPSWMM <i>Ka Leung Lee</i>
2:00 p.m. - 2:30 p.m.	Controlled Modulus Column (CMC) System for Support of the Community Hospital Project, Fort Belvoir, Va. <i>David Tucker, CENAB</i>	Hurricane Ike Hindcast Using a New Generation Storm Surge Model <i>Michael Sterling</i>			
2:30 p.m. - 3:00 p.m.	Advanced Cementitious Materials for Innovative Construction <i>C. Weiss</i>	Hindcast of Hurricanes Gustav and Ike Using the ADCIRC Model in Southern Louisiana and Texas <i>Hasan Pourtaheri</i> Hindcast of Hurricanes Gustav and Ike Using the STWAVE Model in Southern Louisiana and Texas <i>Christopher Bender</i>			
Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Structural Engineering - Civil Works	Structural Engineering - Military Programs	Surveying & Mapping
Room	205B	Little Theater	230B	207	225
Moderator	Dennis Stephens	Doug Norton	Bruce McCracken	Chris Westbrook	James Garster
Theme	Water Management Forecasting	Risk Management	HSS Inspection and Evaluation	Wall Systems and Corrosion Mitigation	Connecting Projects to the Correct Datum
1:30 p.m. - 2:00 p.m.	<ul style="list-style-type: none"> Progress of MVD Fusion Team <i>Joan Stemler</i> River Forecasting with a Looped Rating Curve <i>Ben Stubbs</i> HEC-RTS (Real-Time Simulation) Version 2 for Real Time Flood Forecasting and Water Control <i>William Charley</i> Use of Variography to Estimate Snow Water Equivalent in the St. Paul District <i>Daniel Reinartz</i> 	Application of the Homeland Security Exercise and Evaluation Program (HSEEP) Framework to the 2008 Dam Security Exercise Series (DSES-08) <i>Y. Seda-Sanabria, J. Hunter, E. Matheu and D. Norton</i>	Condition States for Hydraulic Steel Structures <i>Phil Sauser</i>	Tilt-Up Construction Advantages <i>Jeffrey Griffin</i>	Connecting Inland Flood Control & Water Control Systems (levees, floodwalls, multipurpose hydropower projects, locks & dams, inland navigation systems) to the Correct Datums <i>Mark Huber, USACE</i>
2:00 p.m. - 2:30 p.m.		2009 Dams Sector Exercise Series- Columbia River Basin (DSES-09) <i>C. Hughes, E. Matheu, Y. Seda-Sanabria, and D. Norton</i>	Fitness for Service Evaluation Procedures for Hydraulic Steel Structures (HSS) <i>Thomas North</i>	Precast vs. Site-Cast Tilt-Up vs. Insulated Concrete Forms <i>Jeremy Nichols</i>	Connecting Coastal Navigation Projects to the Proper Reference Datum <i>Dave Robar, USACE Jacksonville</i>
2:30 p.m. - 3:00 p.m.		Security Risk Management of USACE Administrative Facilities <i>LaGarde</i>	Large-Scale Instrumentation and Data Monitoring on The Dalles Lock and Dam <i>Bruce Barker, Chris Bogen, Travis Adams</i>	Causes of Corrosion and Preventive Measures <i>James Lary</i>	Connecting Hurricane & Shore Protection Projects (HSPP) to the Right Datum <i>Bill Bergen, HQ USACE</i>

3:00 p.m. - 4:00 p.m. Break-Technology Hall

Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Jason Fairchild	John Hawkins	Tom Deja	Rob Taylor	Anthony Vidal
Theme	Civil Works and BIM	Airfield Pavements	Civil Works Challenges/Innovations	Dam Safety Policy & Procedures	National Levee Database and LIS
4:00 p.m. - 4:30 p.m.	CIM at NWS <i>Van Woods, Steve Hutsell</i>	Airfield Pavement Quality Initiative <i>Ray Brown, ERDC</i>	Grout Mat System-Design/Fabrication/Operation <i>Joe Schwenk, Washington Group/Alberici JV, Robert Wheeler</i>	Risk Management Process, DSPMT Score Card, & Tracking with P2 <i>Eric Halpin, HQ USACE</i>	Lessons Learned Using the Automated Levee Inspection System <i>Justin Callahan, Baltimore District</i>
4:30 p.m. - 5:00 p.m.	Lock & Dam 22 <i>Vince Rouse, Noel Henneman</i>	Fast Track Runway Design, Andersen AFB, Guam <i>Brad Jones, CENWO</i>	RTK GPS & Imaging Sonar for In-The-Wet Placement <i>Joe Schwenk, Washington Group/Alberici JV</i>	Transition from SPRA to PA/IES <i>David Carlson, RRDx</i>	Collection of Information for the NLD <i>Thomas Schweitzer, PBS&J</i>
5:00 p.m. - 5:30 p.m.	BIM Road Map and Civil Works <i>Toby Wilson</i>	In-Situ Determination of Flexural Strength Using Seismic Testing <i>Haley Bell, ERDC</i>	McCook Reservoir-Using Special Techniques and Equipment <i>Nick Karnezis</i>	Tolerable Risk Guidelines <i>David Margo, RRDx</i>	Populating the National Levee Database <i>Patrick Kline, Kansas City District</i>
Track	Dam & Levee Safety 2	Electrical, Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	Randy Rabb	Stan Pilinski	Frank Holcomb	Justin Pummell	Pat Conroy
Theme	Monitoring Tools-Levees	Civil Works Mechanical Engineering	Renewable Energy		Seepage Control
4:00 p.m. - 4:30 p.m.	Buried Hazards Toolbox: What's in Your Levee? <i>Mara Johnson, Argus Technologies</i>	Pump Station Design Issues <i>Stan Pilinski, CESAJ</i>	Renewable Power at a Superfund Site <i>Curt Elmore, Missouri UST, David Drake, DOE, Jason Liebbert, CENWK</i>	Using GIS to Process Hydro Survey Data <i>Gregg Bertrand, NWP</i>	Relief Wells: History of Use in Memphis District <i>C. Williams</i>
4:30 p.m. - 5:00 p.m.	An Automated Geophysical System for Monitoring Underseepage <i>Jose Llopis, ERDC</i>	Condition Monitoring and Predictive Maintenance for Lock Gate Machinery <i>Larry Stephenson, Ashok Kumar, CEERD</i>	Integrating Solar into Parking Areas <i>Wilson Stephenson and Jim Greene, Outpost Solar</i>	Gaining a Better Understanding of Hawai'i's Traffic Through Geospatial Technologies: The Use of GeoPDF and Dynamic Segmentation <i>Justin Pummell, POH</i>	A Seepage Cutoff Wall Constructed Through a Section of Levee in the Vicinity of the Mayhew Drain, a Stormwater Canal <i>J. Bolton</i>
5:00 p.m. - 5:30 p.m.	Ported Cables with Optic Fiber to Detect Soil Movement in Levees, <i>George Mason, ERDC</i>	Procedure for Assembling Stainless Steel Wire Ropes to Stainless Steel Sockets <i>Anthony Cremeans, CELRH</i>	USACE Sustainable Policy Development <i>Frank Appelfeller, LRDOR, and Jeff Laufle, CENWS</i>	Using GIS for the Remedial Investigation at the Former Harshaw Chemical Company <i>Bill Frederick, LRB</i>	Slurry Trenches for Seepage Control <i>C. Newman</i>

Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Charles Bishop	Jeff Waters	David Shepp	Cam Ackerman	Thomas Evans
Theme	Geotechnical Modeling and Visualization	Regional Sediment Management	Water Quality Modeling	Hydraulic Design	Hydrology
4:00 p.m. - 4:30 p.m.	Hydrogeologic Modeling and 3-D Visualization of Dam Foundations and Abutments <i>S. Broadfoot</i>	Regional Sediment Management in North Carolina: A Federal–State Partnership <i>Greg Williams, SAW</i>	<ul style="list-style-type: none"> Modeling Cleveland Harbor CSO Constituent Fate <i>Joseph Gailani</i> Large-Scale Reactive Transport in the Subsurface <i>Stacy Howington</i> HydroMussel: Flow-Based Modeling of Mussel Populations <i>Ronnie Heath</i> Watershed studies using CE-QUAL-W2 and SWAT <i>Tony Clyde</i> 	<ul style="list-style-type: none"> The Gates at Pompton Lake Dam Lessons Learned <i>Frank Santangelo</i> Benefits of Physical Modeling for CW Projects <i>Saji Alummuttil</i> Hydraulic Design of Drop Structures for the Comite River Diversion Project <i>Donald Alette</i> Drag Equations Imparted to Fluid Flow Field from a Stationary Ice Cover as Well as the Bed <i>Gaurav Savant</i> 	Extreme Storm Events Work Group <i>Doug Clemetson</i>
4:30 p.m. - 5:00 p.m.	Updates to DOD Groundwater Modeling System (GMS) for Geotechnical Analysis <i>C. Talbot</i>	As the Grains of Colloidal, Semi-Suspended, Fine Grain Material Slip Slowly Through the Hour Glass of Time—More Than One Life to Live, Mobile Bay Watershed RSM Pilot Project <i>Wade Ross, SAM</i>			Louisiana Joint Probability Method with Optimal Sampling <i>Jay Ratcliff</i>
5:00 p.m. - 5:30 p.m.	3-D Visualization and Modeling for Dams and Levees <i>Y. Rhee</i>	CHL-Regional Sediment Management on the Southern Lake Erie Shoreline <i>Andrew Morang</i> New Buffalo Littoral Analysis and Sediment Budget Study <i>Phil Ross, LRD</i>			New Modeling Capabilities and User-Enhancements to HEC-HMS <i>Matthew Fleming</i>
Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Structural Engineering - Civil Works	Structural Engineering - Civil Works 2	Surveying & Mapping
Room	205B	Little Theater	230B	207	225
Moderator	David Meadows	Mike Sharp	Andy Harkness	Anjana Chudgar	Dave Robar
Theme	Water Management Operations	Blast Damage Estimation Tools	HSS Evaluation, Design and Repair	Hurricane Structure Design & Underwater Inspection	Data Collection and Standardization
4:00 p.m. - 4:30 p.m.	<ul style="list-style-type: none"> Allocation of Sediment Pool Storage During Record Drought at Falls Lake <i>George Piner</i> White River Flood of 2008 <i>Kevin Fagot</i> Non-Federal Hydropower Add-On at B. Everett Jordan <i>George Piner</i> Nashville District's Management of Available Water Under an IRRM <i>Bob Sneed</i> 	USACE-DHS Collaborative R&D Efforts on Risk Assessment and Blast Mitigation for Dams <i>Will McMahon, Yazmin Seda-Sanabria and Enrique Matheu</i>	Numerical Investigation of Tainter Gate Trunnion Friction <i>Vellere Gopalaratnam, Thomas Ruf</i>	Inner Harbor Navigation Canal Hurricane Protection Project <i>Angela DeSoto</i>	Using VRS to Tie to the National Spatial Reference System <i>Joseph Scolari, USACE Philadelphia</i>
4:30 p.m. - 5:00 p.m.		AT-Planner Dams <i>Matt Hossley, Robert Walker, Yazmin Seda-Sanabria and Enrique Matheu</i>	Inspection and Lift-off Tests of Multi-Strand Tendons at John Day Lock and Dam, Columbia River <i>Gerry Hestin and David Scofield</i>	Hurricane and Storm Damage Risk Reduction Systems Design Guidelines <i>Kevin Hall, Jeremy Koskie, Larry Sandhaas</i>	Survey Standardization Through the EM File Format <i>Dwayne Blanchard and Maik Flanagan, USACE New Orleans District</i>
5:00 p.m. - 5:30 p.m.		Development of Simplified Blast Damage Estimation Models for Dams and Navigation Locks <i>Robert Walker, Davis and Will McMahon</i>	Foster Dam Spillway Tainter Gate Emergency Repair <i>Bryan Mason, Samuel Plank</i>	Underwater Inspection of Navigational Structures <i>Terry Warren, Richard Haskins</i>	Field to Finish Mapping Using the AEC CADD Standard <i>Chris Heintz, USACE Louisville District</i>

5:30 p.m. - 7:00 p.m. Ice Breaker-Technology Hall



WEDNESDAY, JULY 22

7:00 a.m.-4:00 p.m. Registration

7:00 a.m.-8:00 a.m Coffee

TRACKS					
Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Beth Brucker	Terry Sherman	Paul Parsonneault	Danny Rodriguez	Barry Cortwright
Theme	Evolving Standards: COBIE and IFCs	Hot Mix Asphalt (HMA) Airfield Pavments: Lessons Learned	Earned Value Management Systems	Dam Safety Policy & Procedures	Floodfighting Levees
8:00 a.m. - 8:30 a.m.	Converting IFC Models <i>Mark Butler</i>	Hot Mix Asphalt (HMA) Airfield Pavements: Lessons Learned <i>Ray Brown, ERDC</i>	EVM Theory <i>Mark Infanti, Deltek Inc., Mike Nosbisch, Parsons</i>	Dam Safety Modification Studies <i>Dale Munger, Northwestern Division</i>	Floodfighting Lessons Learned from Wabash Flooding June 2008 <i>Jason Koenig, Louisville District</i>
8:30 a.m. - 9:00 a.m.	COBIE and Autodesk <i>Michael Juros, John Sullivan</i>			IRRMP and Risk Communications Lessons Learned <i>Jeffrey McClenathan, RRDX, John Balgavy, Clearwater, Mike Zoccola, Wolf Creek/Center Hill, and J. Percy Priest, Col. Dana Hurst, Huntington, Ronn Rose, Isabella</i>	Midwestern 2008 Floods, Floodfighting Pin Oak Levee <i>Noah Vroman, ERDC, Darren Mulford, St. Louis District</i>
9:00 a.m. - 9:30 a.m.	Adding COBIE Data to Revit Projects <i>Jason Combs</i>			Overview of EVMS Tools <i>Jim Moore, Welsley Bushnell, Richard Schipp</i>	Floodfight Data Management: Miss. River Flood of 2008 <i>Miak Flanagan, New Orleans District</i>

Track	Dam & Levee Safety 2	Electrical, Mechanical, Interdisciplinary Civil Works	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	Larry Brotherton	Mark Robertson	Carol Dona	Will Rogers	George Diewald
Theme	Pipes Thru Levees	Civil Works Mechanical Engineering, Controls and Data Reporting Systems	Sustainable Design and Development		Geotechnical Case Histories 1
8:00 a.m.-8:30 a.m.	Structural Failure of Joints in Reinforced Concrete Pipes <i>Glen Bellew and Paul Muller, Kansas City District</i>	Drives and Controls for Civil Works Applications <i>Parveen Gupta, Rexroth</i>	Tool for Incorporation of Sustainability into Army Environmental Remediation Projects <i>Carol Dona, CEHNC</i>	Enterprise GIS Overview <i>Nancy Blyler, HQ USACE</i>	The Beginning of the Future—Canton Dam, Okla., Phase I <i>J. McHenry</i>
8:30 a.m.-9:00 a.m.	Condition Assessment and Rehabilitation of Deteriorated CMP Drainage Structures <i>Christina Neutz, Louisville District</i>	New Developments in Hydraulic Cylinder Design Concepts <i>Parveen Gupta, Rexroth</i>	Sustainable Solutions for a Former Wood Treating Facility <i>Larry Almaleh and Scotti Bozeman, Black and Veatch</i>	MVD Enterprise GIS Program <i>Jim Gutshall, MVD</i>	Instrumentation and Construction Monitoring of a Cellular Sheetpile Bulkhead <i>E. Matthews</i>
9:00 a.m.-9:30 a.m.	Deterioration of Joints in CMPs <i>Cassidy Garden, Kansas City District</i>	Advanced Data Reporting System for Dam Safety <i>Chris Scabia, CENAE</i>	Water Sustainability for Installations: Results of the Army Installation Water Study <i>Elizabeth Jenicek, Natalie Myers, Annette Stumpf, CEERD</i>	Implementing a National Viewer in USACE <i>Will Rogers, NAD</i>	Case History—Lessons Learned from Challenging Drilled Shafts Installation <i>B. Ealey</i>
Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Ray Dridge	Linda Lillycrop	Tony Clyde	Brad Bird	Gary Brunner
Theme	Seepage Control 2	Beach Nourishment	Habitat	Hydraulic Design	Risk Management
8:00 a.m.-8:30 a.m.	Improved Surveillance Scheme for Foundation and Grout Curtain Internal Piping and Erosion Failure Mode Mechanism <i>J. Wibowo</i>	Overcoming Challenges in Brevard County Mid-Reach, <i>Jason Engle, SAJ</i> Sediment Recycling: A New Trend for Beach Nourishment <i>Diane Rahoy, NAN</i>	<ul style="list-style-type: none"> Avian Predation Implementation for Caspian Tern Islands by Portland District <i>Jeremy Britton</i> Shallow Draft Fish Behavior Guidance System at Bonneville Dam <i>Paul Meeks</i> Planning for Spawning Gravel Augmentation on Upper North Santiam River <i>Curtis Loeb</i> Elk Creek Dam Restoration <i>Pat Duyck</i> 	<ul style="list-style-type: none"> Performance of Articulated Concrete Matting Spillway at Lake Odessa <i>Thomas Gambucci</i> Design of Hydraulic Structures to Maximize Dam Safety <i>Shih-Tun Su</i> Design of Lamprey Fish Passage Improvement for Bonneville Dam Cascade Island Ladder Entrance <i>Thareth Yin</i> Computational Fluid Dynamics Model for Lamprey Fish Passage Entrance Improvements at John Day <i>Thareth Yin</i> 	<ul style="list-style-type: none"> Risk Assessment with Uncertainty <i>Chris Dunn</i> HH&C Role in Risk Management <i>David Margo</i> The Modeling, Mapping and Consequence Production Center <i>Barry Moran</i> Dams with Hydrologic Hazards in the USACE Inventory <i>Kari Layman</i>
8:30 a.m.-9:00 a.m.	Long-Term Performance of Underseepage Pressure Relief Systems for Pile-Founded Dams on Permeable Soils <i>R. Arnold</i>	Impact of Coastal Dune Design Due to FIRM Re-Mapping <i>Christina Rasmussen</i>			
9:00 a.m.-9:30 a.m.	Seepage Analysis of Proposed Lock Dewatering System <i>S. Hobbs</i>	Study of Time Critical Removal Action of Discarded Military Munitions In N.J. Beach Fill <i>Scott Fritzingler, George Follett</i>			

Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Structural Engineering - Civil Works 1	Structural Engineering - Civil Works 2	Surveying & Mapping
Room	205B	Little Theater	230B	207	225
Moderator	Steve Daly	Yazmin Seda-Sanabria	Steve Stoltz	Anjana Chudgar	Mark Huber
Theme	Interagency Climate Change Activities	Numerical Modeling of Blast Effects	HSS Evaluation, Design, and Repair	Barge Impact Analysis	Correcting Vertical Datums
8:00 a.m. - 8:30 a.m.	Introduction: Climate Change Activities and Actions for Change <i>Kate White</i>	<ul style="list-style-type: none"> Numerical Simulations of Blast-Induced Cratering Effects on Embankment Dams <i>Armstrong, Akers</i> Numerical Simulations of Blast Mitigation Measures on Embankment Dams <i>Akers</i> 	Vertically Framed Miter Gate Design Using 3D CADD Model <i>Eric Johnson</i>	Barge Impact Experiments Conducted at Winfield Lock <i>Bruce Barker</i>	Pittsburgh District Reservoir Projects CEPD Compliance Surveys <i>Stephen LeBlanc, USACE Pittsburgh, John Hamilton, TerraSurv Inc.</i>
8:30 a.m. - 9:00 a.m.	U.S. Geological Survey Climate Change Studies <i>Julie Kiang, USGS</i>	<ul style="list-style-type: none"> Numerical Simulations of Waterside Blast Effects Against Gravity Dams <i>O'Daniel, McMahon, Walker</i> 	Berlin Dam Crest Gate Rehabilitation <i>David Brittain, Rex Powell</i>	Probabilistic Barge Impact Analysis of the Gulf Intercoastal Waterway Sector Gates and Approach Structures <i>Robert Patev</i>	Datum Evaluations and Corrections in the Pacific <i>Justin Pummell, USACE Honolulu</i>
9:00 a.m. - 9:30 a.m.	National Oceanic and Atmospheric Administration Climate Activities <i>Robin Webb, NOAA</i>	<ul style="list-style-type: none"> Dam Component Response to Bubble Jet Loading from Underwater Blast <i>O'Daniel, McMahon, Walker</i> 	Gate Design and Fabrication for McCook Reservoir Main Tunnels Project <i>David Force, Leon Schieber</i>	Barge Impact Analysis on Hurricane Protection Floodwalls <i>Robert Patev</i>	Deciphering a Datum <i>Kevin Knuuti, USACE Sacramento</i>

9:00 a.m.-6:30 p.m. Technology Hall Open

9:30 a.m. - 10:30 a.m. Break - Technology Hall

Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Ken Cook	Terry Sherman	Paul Parsoneault	John Bianco	Walter Baumy
Theme	BIM and Beyond	Portland Cement Concrete Airfield Pavements: Lessons Learned	Earned Value Management Systems	Dam Safety Policy & Procedures	New Orleans System
10:30 a.m.-11:00 a.m.	Integration of BIM and SPECSINTACT <i>Steve Freitas, Walter Heimbaugh</i>	Portland Cement Concrete Airfield Pavements: Lessons Learned <i>Gene Gutierrez, USACE-TSC</i>	Application of EVMS to Large Cost Reimbursable C W Contract <i>Jim Moore, Wesley Bushnell, Richard Schipp</i>	Overview of Risk Assessments for Dam Safety DAMRAE and PFMA <i>Andy Harkness, RRDx</i>	Reliability Analysis of New Orleans System <i>Robert Patev, New England District</i>
11:00 a.m.-11:30 a.m.	Linking BIM Data to Cost Estimating <i>Karen Schofield</i>		Application of EVMS to Large Fixed Price-Incentive MILCON Contract <i>Jim Moore, Wesley Bushnell, Richard Schipp</i>	Dam Safety Lessons Learned Panel <i>Eric Halpin, Tim O'Leary, Randel Mead, Kari Layman, Dave Carlson, Mike McCray</i>	Risk Analysis of the New Orleans System <i>Robert Patev, New England District</i>
11:30 a.m.-12:00 p.m.	BIMTrax: A Building Lifecycle Approach <i>Brad Schulz</i>		EVMS Expert Panel Discussion <i>Jim Moore, Wesley Bushnell, Richard Schipp, Mark Infanti</i>		West Closure Complex <i>Robert Ivansson, HNTB</i>
Track	Dam & Levee Safety 2	Electrical & Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	Danny Rodriguez	Mark Robertson	Jeanette Fiess	Maik Flanagan	Yvonne Gibbons
Theme	Challenges and Opportunities	Civil Works Remote and Automated Controls Systems	Sustainable Design and Development		Geotextiles 1
10:30 a.m.-11:00 a.m.	Interim Risk Reduction Measures for Levee Safety <i>Mike Jordan, SWD</i>	Remote Operation of the Kaskaskia Navigation Project Dam <i>Shane Nieu Kirk, CEMVS</i>	Army Sustainability Policy <i>Annette Stumpf, CERL</i>	CorpsMap—USACE Spatial Data Infrastructure <i>Joel Schlagel, IWR</i>	Use of Geomembranes as Waterproofing for Remediation of Hydraulic Structures <i>R. Koerner</i>
11:00 a.m.-11:30 a.m.	Challenges and Successes of the Tulsa District Levee Safety Program <i>Jim Martell, Tulsa District</i>		LEED-Certifiable Buildings at Fort Lewis <i>Jeannette Fiess, CENWS</i>	Corps Project Notebook <i>Merland Halisky, BAH</i>	Geotextile Filters Failures <i>R. Koerner</i>
11:30 a.m.-12:00 p.m.	Implementation of Routine Inspections and Working with Levees with Maintenance Deficiencies <i>Robert Remmers and Jeremy Watts, Buffalo District</i>	Automated Gate Closure, Duck Creek Local Flood Protection Project <i>Mark Robertson, Christina Beavin, CELRL</i>	LEED 3.0 <i>Annette Stumpf, CERL, Jeannette Fiess, CENWS</i>	The Evangeline Project: Simplified Access to GIS Knowledge Base <i>Maik Flanagan, MVN</i>	Geotextile-Reinforced Levees & Dikes: Geotextile Selection & Specification <i>J. Dendurent</i>

WEDNESDAY, JULY 22 *continued*

Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Danny Harrelson	Jeff Lillycrop	Tony Clyde	Charlie Little	Dennis Seibel
Theme	Geotechnical Issues 2	Coastal Navigation - R&D	Habitat	Sedimentation	Risk Management
10:30 a.m.- 11:00 a.m.	Stability and Settlement Modeling at Craney Island <i>A. Zdinak</i>	Review of Section 111 Coastal Studies and Methodologies <i>Nicholas Kraus, CHL</i>	<ul style="list-style-type: none"> Acushnet River Fish Passage Restoration Project <i>Lee Becker</i> 	<ul style="list-style-type: none"> Gooseneck Cove and Salt Marsh Restoration <i>Lee Becker</i> 	
11:00 a.m.- 11:30 a.m.	Seismic Design of Underground Structures, St. Louis and Charleston <i>F. Reynolds</i>	Channel Shoaling Using Historical Maintenance Dredging Data <i>Julie Rosati, CHL</i>	<ul style="list-style-type: none"> Particle Tracking to Simulate the Effects of System Changes on the Movement of Larval Fish Behaviors <i>Tahirih Lackey</i> 	<ul style="list-style-type: none"> Continuous Verses Cumulative Duration in the Lower Miss River Alluvial Valley <i>David Johnson</i> 	<ul style="list-style-type: none"> Frequency Curve Extension for Dam Risk Portfolio <i>Jeff Harris</i>
11:30 a.m.- 12:00 p.m.	Alternative Designs in the Complex Foundations at MacDill AFB <i>J. Krick</i>	The Channel Prioritization Tool <i>Ned Mitchell, CHL</i> Silent Inspector-The Next Generation <i>Linda Lillycrop</i>	<ul style="list-style-type: none"> Neurobiology and Computational Neuroscience to Describe How Fish Move <i>Jing-Ru Cheng</i> Need for a National Database to Manage ER Projects <i>Teresa Parks</i> 	<ul style="list-style-type: none"> Acoustic Backscatter as a Surrogate for Real-Time SSC and Inflow Loads into Lower Granite Reservoir <i>Molly Wood</i> Sediment Yield Using HEC-HMS for the Upper North Bosque River Watershed in Central Texas <i>Jay Pak</i> 	<ul style="list-style-type: none"> Hydrology for Dam Failure Models <i>Doug Clemetson</i> Consequences Toolbox <i>Jason Needham</i> Dam Break Flood Inundation Mapping <i>Jeffrey Albee</i>
Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Structural Engineering - Civil Works 1	Structural Engineering - Civil Works 2	Surveying & Mapping
Room	205B	Little Theater	230B	207	225
Moderator	Rolf Olsen	Will McMahon	John Clarkson	Chris Westbrook	James Garster
Theme	Water Manager Climate Information Needs	Physical Models Testing	HSS Evaluation, Design, and Repair	Misc. Concrete and Steel Repair	Accuracy and Project Control
10:30 a.m.- 11:00 a.m.	Reclamation Climate Change Research – Downscaling Tutorial <i>Levi Brekke, Dave Raff</i>	<ul style="list-style-type: none"> Scale-Model Testing of Blast Mitigation Measures for Embankment Dams <i>Rickman</i> 	Detailing Hydraulic Steel Structures for Fabrication and Performance <i>Phil Sauser</i>	In-Situ Coating of Sheet Pile <i>Alfred Beitelman</i>	How Accurate Does Your Project Control Really Need to Be? <i>Dr. Gary Jeffress, Texas A&M Corpus Christi, James Garster, USACE</i>
11:00 a.m.- 11:30 a.m.	Climate Change Panel Discussion 1: Water Manager Climate Information Needs	<ul style="list-style-type: none"> Scale-Model Experiments of the Effect of Explosive Attack on Water-Backed Embankments <i>Rickman</i> 	Poe Lock Stoplog Fabrication Requirements <i>Andrew Wadysz, Phil Fish</i>	Investigation and Repair of Severely Ice-Damaged Concrete for Olmsted Approach Walls <i>Terry Sullivan</i>	Project Control Database Initiative: Is My Project Control Current and Correct? <i>Mark Huber, USACE, Craig Swanson, Booz Allen Hamilton</i>
11:30 a.m.- 12:00 p.m.	Climate Change Panel Discussion 2: Water Manager Climate Information Needs	<ul style="list-style-type: none"> Centrifuge Modeling of Blast Damage to Zoned Dams <i>Vanadit-Ellis and Davis</i> Centrifuge Modeling of Blast Damage to Gravity Dams <i>Vanadit-Ellis and Davis</i> 	John Day Friction Sheave Fatigue Repair <i>Matthew Hanson</i>	NDT for Concrete Structures <i>James Evans, Richard Haskins</i>	

12:00 p.m. - 1:30 p.m. Lunch - Technology Hall

Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Steve Hutsell	Gene Gutierrez	Rod Markuten	Bruce Rogers	Laila Berre
Theme	BIM to GIS	Roller Compacted Concrete (RCC) Pavements	New Trends in Construction	Levee Safety - Overview	Dam Safety Case Studies
1:30 p.m. - 2:00 p.m.	Interoperability of BIM & GIS <i>Nancy Towne</i>	Overview of RCC Pavements: Applications, Design and Construction <i>Wayne Adaska, Portland Cement Association</i>	Construction Management for Owners: Four Critical Trends <i>Larry Smith</i>	USACE Levee Safety Program <i>Tammy Conforti, HQ USACE</i>	Abiquiu Dam <i>Suzanne Hess-Brittelle, Albuquerque District</i>
2:00 p.m. - 2:30 p.m.	BIM to GIS <i>Brian Huston</i>	RCC Pavements, Fort Carson, Colo.: Government Perspective <i>John Hawkins, USACE-TSC</i>		Levee Safety Policy and Procedures <i>Michael Bart, St. Paul District</i>	Allegheny Lock & Dam #6 <i>James Shibata, Kathleen Bensko and Denise Polizzano, Pittsburgh District, Scott Dodds, Brayman Construction Co.</i>
2:30 p.m. - 3:00 p.m.	BIM and CorpsMap <i>Van Woods, Joel Schlagel</i>	RCC Pavements, Fort Carson, Colo.: Contractor Perspective <i>John Edwards, Interstate Highway Construction Inc.</i>	C & D Waste Diversion <i>Jeanette Fless</i>	National Committee on Levee Safety <i>Eric Halpin, HQ USACE</i>	Bear Creek River Dam <i>Keith Ferguson, Kleinfelder Inc., Donald Bruce, Geosystems Inc., Russell Tompkins, James Niznik, John Duncan, and Scott R. Kramer, Tennessee Valley Authority</i>
Track	Dam & Levee Safety 2	Electrical & Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	Brent Trauger	Bob Billmyre	Dale Herron	Nancy Blyler	Mark Harris
Theme	Dam Safety Case Studies	Electrical Engineering	Mold and Mildew Workshop		Stability and Erosion
1:30 p.m. - 2:00 p.m.	Martis Creek Dam: LiDAR Assisted Fault Detection <i>Lewis Hunter and Ronn Rose, Sacramento District, Jim Howle and Gerald Bawden, U.S. Geological Service</i>	Electrical Engineering Overview <i>Bob Billmyre, CECW-CE</i>	Workshop on Elimination of Mold and Mildew in New and Renovated Army Buildings <i>Dale Herron, CEERD, Gilbert Valla, CESWF</i>	SDSFIE Standards Overview and Industry Panel (ESRI Bentley and Autodesk) <i>Kurt Buehler, Image Matters</i>	Stability Evaluations at Reinforced Embankments In New Orleans Using Optimized Limit Equilibrium and Numerical Analyses <i>N. Schwanz</i>
2:00 p.m. - 2:30 p.m.	70 Years of Engineering Dams at the New England District <i>Janet Patev, New England District</i>	Tri-Service Lighting Criteria <i>Richard Cofer, Navy, Nancy Clanton, Clanton and Assoc.</i>			The History of Levee Seepage Design Criteria <i>Noah D. Vroman</i>
2:30 p.m. - 3:00 p.m.	Portugues Dam Construction <i>Jim Mangold, Jacksonville District</i>				The Unlined Spillway Erosion Toolbox <i>J. Wibowo</i>

Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Aaron Zdinak	Jason Engle	David Shepp	Marty Teal	David Harris
Theme	Geotechnical Case Histories 2	Coastal Navigation - Case Studies	Environmental Restoration	Sedimentation	Risk Management
1:30 p.m. - 2:00 p.m.	Soil Mixing Application Successfully Stabilizes a Small Streambank Erosion Project <i>J. Kolber</i>	<ul style="list-style-type: none"> Hydrodynamic and Sediment Transport Modeling to Support Channel Realignment <i>Greg Williams, SAW</i> The Houma Navigation Canal <i>Raymond Walton</i> Impact of Port of Anchorage Expansion on Flows and Future Dredging Requirements <i>Steven Hughes, CHL</i> Barge Landing Improvements for Native Alaskan Villages <i>Deirdre Ginter, POA</i> 	<ul style="list-style-type: none"> Reservoir Reoperation/ Floodplain Management <i>Jeff Opperman</i> Construction in the Wet: A Stream Restoration Case Study <i>Ben Soleimani</i> The Soldier Creek Diversion Unit Repair Project <i>John Ruhl</i> Multi-Disciplinary Urban Stream Restoration on Cameron Run with Flood Reduction Bonus <i>Carey Nagoda</i> 	<ul style="list-style-type: none"> Sediment Basin Designs for the Lower Mississippi River Ship Channel <i>Hasan Pourtaheri</i> Regional Sediment Management - SIAM on Kankakee River Basin <i>Charlie Little</i> Flood Risk on the Cowlitz River Due to Sedimentation from Mount St. Helens <i>Alan Donner</i> A GIS-Based Channel Stability Tool for the Great Lakes Region <i>Travis Dahl</i> Geophysical Investigations at Shishmaref, Alaska <i>Lewis Epps</i> 	<ul style="list-style-type: none"> Dam Failure Modeling for Risk Assessment Studies <i>Andy Lowe</i> Sensitivity of Geometry in Hydraulic Dam Failure Analysis <i>Joey Windham</i> Bluestone Dam - Hydraulic Analysis of Dam Failure Risk Assessment <i>Russ Wyckoff</i> Mapping Techniques for Communicating Consequences of Dam Failure <i>Benjamin Rohrbach</i>
2:00 p.m. - 2:30 p.m.	Design and Construction of a Large, Partially-Buried Drinking Water Reservoir <i>A. Stadler</i>				
2:30 p.m. - 3:00 p.m.	A Half Century of Geotechnical Engineering <i>R. Peterson</i>				
Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Structural Engineering - Civil Works 1	Structural Engineering - Civil Works 2	Surveying & Mapping
Room	205B	Little Theater	230B	207	225
Moderator	Kate White	Will McMahon	Pete Rossbach	Rick Poepelman	Robert Heidelberg
Theme	USACE Climate Activities	Bridges and Tunnels	HSS Repair and Lock & Dam Rehabilitation	Seismic Evaluation and Rock Anchor Design	Electronic Charting in the Corps
1:30 p.m. - 2:00 p.m.	USACE Strategic Plan for Water Management Adaptation to Climate Change <i>Rolf Olsen, IWR</i>	<ul style="list-style-type: none"> Bridge Hazard Mitigation Assessment Process <i>Jizba</i> Mitigation of Terrorist Threats to Major Bridges <i>Ray, Chiarito and Walker</i> Investigation of Underwater Cast-Iron Tunnel Vulnerability and Potential Blast Mitigation Techniques <i>Foust, Baylot, and Oesch</i> Description Overview of the Helicopter Emergency Reconnaissance Observer System <i>Olsen</i> 	Removal and Repair of LRD Lock Emergency Gate Leaves <i>Joshua Nickel</i>	Corps of Engineers Civil Works Earthquake Hazards Reduction Program Update <i>Bruce McCracken</i>	USACE Inland Electronic Navigational Charts <i>Denise LaDue, USACE Louisville</i>
2:00 p.m. - 2:30 p.m.	Systems Approach and Water Management <i>Fauwaz Hanbali, HEC, and Kate White, CRREL</i>		Holt Lock Miter Gates <i>Mark Leon, Allen Davis</i>	Little Goose Spillway Seismic Analysis <i>Bruce Collison</i>	Federal Channel Framework Project of the U.S. Army Corps of Engineers <i>Bob Mann, USACE</i>
2:30 p.m. - 3:00 p.m.	Great Lakes Studies <i>Debbie Lee, LRD</i>		Kentucky River Lock & Dam No. 3, Lock No. 4 Major Rehabilitations <i>Jeff Dingrando, J. Repp</i>	Rock Anchors for Dams: The Need for Common Sense and Clarity <i>Donald Bruce</i>	Using Existing Free or Commercial 2D/3D Visualization Tools to View Real-Time IENC Data <i>Alex Ly, USACE</i>

3:00 p.m. - 4:00 p.m. Break - Technology Hall

Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Stephen Spangler	Gene Gutierrez	John Bianco	David Busse	Rick Britzman
Theme	Vertical Construction and BIM	Traffic Study and ATFP Requirements	New Innovations in Construction	Levee Safety Organization	Dam Safety Case Studies
4:00 p.m. - 4:30 p.m.	USMA Science Center Phase I - Building 757: BIM & Lessons Learned <i>Darlene Brady</i>	Traffic Study and ATFP Requirements <i>Scott A. Knebel, LJB Inc.</i>	Gauge Metal Structural Framing <i>Bill Sorrentino</i>	Levee Safety Organization Roles and Responsibilities <i>Eric Halpin</i>	Bluestone Dam <i>Ron Adams, Huntington District, and Mark Rothbauer, Brayman Construction Co.</i>
4:30 p.m. - 5:00 p.m.	The State of the Union for BIM <i>Stephen Spangler</i>		Panelized Construction <i>Allen Hand</i>	Communicating Levee Safety Program Messages <i>Michael Bart, St. Paul District</i>	Canton Dam Fuse Gates <i>Hasan Kocahan, Hydroplus Inc., Russ Wyckoff, Tulsa District, and Martin Wosnik, Alden Research Laboratory</i>
5:00 p.m. - 5:30 p.m.	Concept thru Construction to Completion: Louisville District's Experiences with BIM for Army Reserve Projects <i>Jeremy Nichols</i>		P.E. License-Construction Module Now Included <i>Stephen Benton, Telesource International Inc.</i>	Levee Safety Program - Panel Discussion: Challenges Within a Levee Safety Organization <i>HQ, MSC, District</i>	Canyon Dam Spillway Cutoff Wall <i>Jose Hernandez, Fort Worth District</i>
Track	Dam & Levee Safety 2	Electrical & Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	Andy Harkness	Bob Billmyre	Alexander Zhivov	Joshua Bomar	Jon Kolber
Theme	Risk Tool Boxes	Electrical Engineering	Air Tightness Workshop		Geotechnical Case Histories 3
4:00 p.m. - 4:30 p.m.	Risk Tool Box for Geotechnical Risk Analysis <i>Jeffrey Schaefer, Louisville District, and Andy Harkness, Pittsburgh District</i>	Communications Requirements for Military Projects <i>ISEC</i>	Air Tightness Barriers, Building and Testing <i>Dr. Alexander Zhivov, CEERD, Colin Genge, Retrotech, Brian Erickson, PIE, Ken Rowan, BCRA</i>	<ul style="list-style-type: none"> An Open-Source Strategy for Geospatially-Enabling the Utilities Asset Management Process <i>Greg Roux, Woolpert</i> Using GIS to Perform Periodic Inspections <i>Rose Dopsovic, Bowhead Information Technology Services</i> Turning Data Into Information at Wolf Creek Dam <i>Joshua Bomar, LRN</i> Isabella Dam: 3D GIS Modeling of a Complex Foundation at a DSAC Class 1 Dam <i>David Simpson, URS Corp.</i> 	Reliability Indexing of Predicted vs. Measured Soil Strengths and Failure Models for Levee Evaluation <i>R. Olsen</i>
4:30 p.m. - 5:00 p.m.	Risk Tool Box for H&H Risk Analysis <i>David Margo and Andy Harkness, Pittsburgh District</i>				Wave-Analysis Technology: Real-Time Monitoring of Jet Grout Column Diameter and Overlap <i>J. Bean</i>
5:00 p.m. - 5:30 p.m.	Risk Tool Box for Structural Risk Analysis <i>David Schaaf, Louisville District, and Andy Harkness, Pittsburgh District</i>	SIPRNET <i>Mian Rehman, CENWK</i>			Dynamic Testing of H-Piles at the Bechara Industrial Park, San Juan, Puerto Rico <i>S. Itani</i>

Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Gene Lenhardt	Phil Ross	David Shepp	Earl Edris	Matt Fleming
Theme	Geotechnical Issues 3	Coastal Structures - Case Studies	Sustainable Rivers	Groundwater	Risk Management
4:00 p.m. - 4:30 p.m.	Olmsted Dam Tremie Concrete <i>D. Kiefer</i>	Monitoring of the Kaumalapau Breakwater by the MCNP Program <i>Jessica Podoski</i>	<ul style="list-style-type: none"> • Bill Williams River Partnership and Ecological Management of Water Resources <i>Rene Vermeeren</i> • SRP Institutionalizing Strategies for Water Management <i>Bill Byron</i> • TNC SRP on the Middle Fork of the Willamette River in Western Oregon <i>Mary Karen Scullion</i> • SRP Innovation in USACE Water Management <i>Andrew Warner</i> 	<ul style="list-style-type: none"> • Improvement of the MODFLOW River Module for Enabling Transient Model Calibration <i>Amir Gamliel</i> • Groundwater Monitoring Network for Gateway Lake Wetland Rehabilitation <i>Travis Yonts</i> • Aquifer Storage Recovery Systems for Multi-Year Subsurface Storage <i>June Mirecki</i> • Using SWWRP Tools to Evaluate the Complex Regional Flow System in South Florida <i>Stephen England</i> 	<ul style="list-style-type: none"> • Herbert Hoover Dike Breach Rate Comparisons <i>Robert Tucker</i> • HEC-RAS Model Development for Dam Sector Exercise Series <i>Gregg Teasdale</i> • Reservoir Restriction Measures at Howard Hanson Dam <i>Sara Marxen</i> • Development of an ISO Process for Reservoir Deviation Approval <i>Mark Philips</i>
4:30 p.m. - 5:00 p.m.	Use of Wet Grab Samples to Determine the Strength of Self-Hardening Cement-Bentonite Walls Built to Stabilize Liquefiable Foundation Soils at Tuttle Creek Dam <i>F. Leoni</i>	Dade County, Fla., Shore Protection and Environmental Enhancement <i>Tom Martin</i>			
5:00 p.m. - 5:30 p.m.	Geotechnical and Construction Materials Testing Labs—Test Reporting Compliance—the Good, Bad and Ugly <i>M. Wielputz</i>	Modeling and Development of Computer Software in Support of the Great Lakes Armor Stone Project <i>Mansour Zakikhani</i> An Evaluation of Laboratory Testing and Field Observations for the Great Lakes <i>Danny Harrelson</i>			
Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Infrastructure Protection - Physical & Electronic	Structural Engineering - Civil Works 1	Surveying & Mapping
Room	205B	Little Theater	207	230B	225
Moderator	Debbie Lee	Jerry Love	Leigh Young	George Diewald	James Garster
Theme	USACE Regional Climate Activities	Risk and Vulnerability Analysis	Transportation Security and Data Certifications	Lock and Dam Design	Panel Discussion w/ NOAA and USACE Experts
4:00 p.m. - 4:30 p.m.	California Climate Study <i>Stu Townsley, SPD</i>	<ul style="list-style-type: none"> • Jat Guide Risk Analysis Process for Military Installations <i>Larsen and Love</i> • Best Practices and Major Concerns of Engineering Designs in the at World <i>Kathir</i> • DOD Vulnerability Assessment Protection Option Program <i>Seipel</i> • A Secure Water Distribution Network Infrastructure for Army Installations <i>Smith, Van Blaricum and Hock</i> 	Joint Unified Maritime Protection System <i>Carole Crawford, The Saturn Partners, Inc., James Cary, U.S. Army Research, Development and Engineering Command</i>	Innovative Design and Construction of the Chickamauga Replacement Lock <i>Bill Debruyne, Samuel Morgan</i>	<p>Panel Discussion: Everything You Ever Wanted to Ask About Project Control, Datums, Survey Standards, OPUS, OPUS DB, and OPUS Projects <i>Panel Members from: USACE, NOAA (NGS, CO-OPS)</i></p>
4:30 p.m. - 5:00 p.m.	Columbia River <i>Seshu Vaddey, NWP</i>		Electronic Systems for Security and Life Safety of Transportation Facilities Through Enhanced Situational Awareness and Incident Management <i>Joseph Englot, HNTB</i>	The Dalles Bay 8/9 Spillwall <i>Jeffrey Ament</i>	
5:00 p.m. - 5:30 p.m.	Missouri River Basin <i>Larry Murphy, NWD</i>		Use of DOD Networks and Complying with DOD Certification and Accrediation Criteria for Protecting Shared Data Communication Networks <i>Buland Mahmood, HNC</i>	NESP Concrete Design Plan <i>Lisa Pierce, John Gajda, Fred Joers</i>	



THURSDAY, JULY 23

- 7:00 a.m.-10:30 a.m. Registration
- 7:00 a.m.-8:00 a.m. Coffee
- 8:00 a.m.- 9:30 a.m. Plenary Session IV
- 9:00 a.m.-5:30 p.m. Technology Hall Open
- 9:30 a.m.-10:30 a.m. Break-Technology Hall

TRACKS					
Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Edward Huell	Brad Jones	Yolanda Arthur	Michael Bart	Duane Stagg
Theme	ProjectWise	Miscellaneous Topics	Changing/New Applications in Construction/AE Management	Levee Inventory/Inspection	Dam Safety Case Studies
10:30 a.m.-11:00 a.m.	ProjectWise Corporate Model <i>Ed Mathison</i>	GIS Database for Managing Infrastructure Assets <i>Kevin R. Miller, LJB Inc.</i>	Corps Conversion from Primavera P3 to P6 & Schedule Managemt Challenges <i>Jeff Huneycutt</i>	National Levee Database <i>Bryan Baker, CRREL</i>	Carsington Dam Embankment Failure During Construction <i>Siamac Vaghar, New England District</i>
11:00 a.m.-11:30 a.m.	Integrating BIM and ProjectWise <i>Gary Sciemi</i>	Bridge and Roadway Construction Challenges <i>Gwendolyn Nelson, CESAJ</i>	Changing Landscape of AE Contracting-Past, Present, Future <i>James A. Mills</i>	Routine and Periodic Inspections <i>Travis Tutka, St. Louis District</i>	Chief Joseph Dam Spillway Uplift <i>Richard Smith and Julie Allen, Seattle District</i>
11:30 a.m.-12:00 p.m.	MVD ProjectWise Update <i>Jason Fairchild</i>	Site and Utility Demarcation Matrix <i>Ted London, CENWK</i>	Sundt/EMARS Presentation on Payroll Processing <i>John Keever, Sundt, RB Brown, EMARS</i>	Levee Screening Tool <i>Steve Durrett, Louisville District</i>	Clearwater Dam Safety Modification Project <i>Bobby Van Cleave, Little Rock District</i>

Track	Dam & Levee Safety 2	Electrical & Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	Troy O'Neal	Bob Billmyre	Jim Martin	Tim Pangburn	James McHenry
Theme	Risk Tool Box & Case Studies	Electrical Engineering	Military Programs Mechanical Engineering		In-Situ Investigation and Data Analysis 1
10:30 a.m.-11:00 a.m.	Risk Tool Box for Mechanical/Electrical Systems Risk Analysis <i>Rick Schultz, Louisville District, and Andy Harkness, Pittsburgh District</i>	Metering <i>Christopher Newman, CEHNC</i>	HVAC Potpourri <i>Jim Martin, CELRL</i>	GIS Methods for Inundation Mapping <i>Jason Sheeley, NWK</i>	A Standardized Geotechnical Database for Use in New Orleans Combining gINT Software with Data Forensics' Rapid CPT Tool <i>S. Savage</i>
11:00 a.m.-11:30 a.m.	Rush Dam <i>John France and Gregg Batchelder Adams, URS Corp.</i>	Rebirth of Armed Forces Radiobiology Research Institute <i>Mitch Duke, CEHNC</i>	Your Pumps May Be Robbing You <i>Tom Walski, Bentley</i>	Near Real-Time Simulation and Internet-Based Delivery of Forecast-Flood Inundation Maps Using Two-Dimensional Hydraulic Modeling: A Pilot Study for the Snoqualmie River <i>Joseph Jones, USGS</i>	Data Management Lessons Learned for the USACE New Orleans Levee Projects <i>S. Deaton</i>
11:30 a.m.-12:00 p.m.	Success Dam – Seismic Modifications <i>Michael Ruthford, Vlad Perlea and David Serafini, Sacramento District</i>	IMCOM UMCS Plan <i>Ralph White, CEHNC</i>	Seismic Requirements Per NFPA 13 <i>Mark Robertson, CELRL</i>	130 Years of Change in the Missouri River Floodplain <i>Charles Sellmeyer and Jason Sheeley, NWK</i>	New Orleans Organics Soil Study, Strength & Erodibility <i>M. Wielputz</i>
Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Robert O'Kelley	George Domurat	Kathryn Tackley	Amir Gamliel	James Pennaz
Theme	Geotechnical Case Histories 4	Coastal Structures and Guidance	Sustainable Rivers	Groundwater	Hydrology
10:30 a.m.-11:00 a.m.	Geotechnical Aspects of a Flood Control and Environmental Restoration Project within a Frederick Law Olmsted Historical Park <i>R. Patev</i>	Recent Coastal Structures Asset Management Activities of the Great Lakes Districts of the U.S. Army Corps of Engineers <i>Paul Bijhouwer</i>		<ul style="list-style-type: none"> Water Treatment in Everglades Restoration Program for Aquifer Storage and Storage Systems <i>June Mirecki</i> Modeling, Managing and Controlling Seepage: A New Frontier <i>Murika Davis</i> WASH123D model of Lipari Landfill Superfund Site <i>Daniel Sirkis</i> Remedial Strategy at Luckey CERCLA Site <i>Jacob Zdrojewski</i> 	<ul style="list-style-type: none"> Elm River, North Dakota & South Dakota, Geo-HEC-HMS Watershed Analysis <i>Cory Haberman</i> Using Radar to Estimate Peak Storm Precipitation on the Island of Oahu <i>Eric Li</i> Using Radar to Estimate Peak Storm Precipitation on the Island of Oahu <i>John Carroll</i> Ala Wai Watershed: A Hydrology Committee Success Story <i>Michael Wong</i>
11:00 a.m.-11:30 a.m.	Instrumentation and Monitoring of Potential Failure Modes at Wolf Creek Dam <i>Jocelyn Feliciano</i>	Coastal Structures Condition Assessment Tool Box <i>Stanley Boc</i>	<ul style="list-style-type: none"> Missouri River Spring Pulse: Part 2 Drainage Impact Evaluation <i>Jennifer Davis</i> Missouri River Spring Pulse: Part 1 Drainage Monitoring <i>Travis Yonts</i> 		
11:30 a.m.-12:00 p.m.	Cochiti Dam, New Mexico, Intake Tower Potential Wall Leak Investigation <i>G. Dieward, S. Hess-Brittelle</i>	Incorporating Sea-Level Rise into Engineering Planning and Design <i>Kevin Knuuti</i> Sea-Level Rise Scenarios: Applying Local Projections for Planning and Management <i>Kris Esterson</i>			

Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Infrastructure Protection - Physical & Electronic	Structural Engineering - Civil Works 1	Surveying & Mapping
Room	205B	Little Theater	207	230B	225
Moderator	William Charley	Curt Betts	Leigh Young	Marvin Parks	Bob Mann
Theme	Water Management Operations	Protective Measures Testing and Design	Access Control Points and Physical Protection	Misc. Lock & Dam Topics	Merging of High Resolution Survey Data
10:30 a.m.- 11:00 a.m.	<ul style="list-style-type: none"> ResSim Routings for Urgent Gate Repairs at Forster Dam <i>Julie Ammann</i> Evaluating Water Supply in Cumberland County, Tenn. <i>Stuart Stein</i> Large Reservoir System Modeling <i>Michael Swenson</i> Columbia River Treaty Review <i>Patti Low</i> 	<ul style="list-style-type: none"> Testing of Waterside Attack Barrier Systems <i>Saunders and Sanger</i> Design of Window Supporting Structural Elements in Accordance with DOD Minimum Antiterrorism Standards for Buildings <i>Veys</i> Security Engineering and Protective Design Training Program <i>Veys</i> Single Degree of Freedom for Blast Effects Design Spreadsheet <i>Lindsey</i> 	Vehicle Barriers <i>Brian Erickson, PDC</i> Army Access Control Points Standards <i>Brian Erickson, PDC</i>	Seepage Cutoffs for Dams: Reassertion of the "Composite Wall" Concept <i>Donald Bruce</i>	Merging of Laser Imaging with High Resolution Multibeam Surveys to Support the Study/Rescue of the Historic Harbor Refuge Lighthouse and Jetty <i>Joseph Scolari, USACE Philadelphia</i>
11:00 a.m.- 11:30 a.m.			Army Access Control Points Lessons Learned <i>Brian Erickson, PDC</i>	Design and Analysis of Large Diameter Shaft, McCook Reservoir <i>Ross Hiner</i>	Integration of Terrestrial Scanning Laser with Acoustic Sonar Imagery to Provide a Comprehensive Image of Surface and Subsurface Coastal/Riverine Structures and Landscapes <i>Mark Null, ERDC-CHL</i>
11:30 a.m.- 12:00 p.m.			Protecting Sensitive Electronic Equipment in Electronic Security, Utility Monitoring and Control, and Supervisory Control and Data Acquisition (SCADA) Systems <i>Buland Mahmood, HNC</i>	Mcalpine Lock Replacement Project, Lessons Learned <i>Kathleen Feger</i>	Integration of Datasets Generated by Aerial and Ground-Based Imagery & LiDAR/Laser Scanning Sensors <i>Jack Kuttrus, Woolpert</i>

12:00 p.m. - 1:30 p.m. Lunch on own

Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator	Ed Mathison	Tim Phillips	Robert Howell	Eric Halpin	Jose Hernandez
Theme	BIM: Capturing the Data for O&M	Miscellaneous Topics	Risk Management/ Safety	Levee Certification	Dam Safety Case Studies
1:30 p.m. - 2:00 p.m.	Building Information Management (BIM) and DOD Installation Management <i>Bill McNamara</i>	The Challenge of Building an Urban Freeway Behind a Dam in a Flood Pool <i>Mike Chase, Stanley Consultants</i>	Risk Management Techniques (DFW Airport) <i>Ken Corey, KBR</i>	FEMA RiskMAP and PAL <i>Mary Jo Mullen, FEMA HQ</i>	Devil's Lake – Roadways Acting as Dams <i>Bonnie Greenleaf and Paul Madison, St. Paul District, Mike Will, Federal Highway Administration, and Steve McCaskie, Hanson Professional Services</i>
2:00 p.m. - 2:30 p.m.	COBIE for Construction and Commissioning <i>Beth Brucker</i>	Putting the Lid on Site Design <i>Steve Thibaudeau, CELRL</i>	Implementing New Fall Protection Requirements of EM 385-1-1 <i>Thomas Kramer, LJB Inc., and Ellen Stewart, HQ USACE</i>	USACE Levee Certification Policy and Procedures <i>Tammy Conforti and Mike Deering</i>	Dover Dam – Zoar Levee Expert Elicitation <i>Alan Rauch, Stantec, and Joan St. Clair, Huntington District</i>
2:30 p.m. - 3:00 p.m.	BIM and Real Property Inventory <i>Edward Huell</i>	Panama Canal History, Construction and the Recent Expansion Project <i>Jan Plachta, CELRC</i>			Emergency Action Plans and Exercises <i>Kathy Grime, Nashville District, Danny Rodriguez, North Atlantic Division, and Rick Britzman, South Pacific Division</i>
Track	Dam & Levee Safety 2	Electrical & Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	221	210
Moderator	Bruce Rogers	Mark McNamara	Mary Foutz	Chris Macon	Richard Peterson
Theme	Dam Safety Case Studies	Electrical Engineering	Military Programs Mechanical Engineering		In-Situ Investigation and Data Analysis 2
1:30 p.m. - 2:00 p.m.	Swan Lake Dam <i>Michael Shore and Vik Gautam, URS Corp.</i>	Protective Relay Coordination <i>Thomas Mun, CEPOD</i>	HVAC Systems–Wastes, Inefficiencies and Potential Remedies <i>Scott Duncan, ROI</i>	Visualization, Analysis and Management of 3D LiDAR Topography in Oracle Spatial 11G <i>Mike Smith, ERDC CRREL</i>	CPT-Based Evaluation of Soft Clays and Organic Clays Under Levees <i>R. Olsen</i>
2:00 p.m. - 2:30 p.m.	Tuttle Creek Dam Instrumentation <i>Joseph Topi, John Dillon and James Campbell, Kansas City District</i>	Grounding of Generators and Service Entrance Pad-Mounted Transformers <i>Mark McNamara, CENWO</i>	An Overview of Various Cooling Energy Storage Technologies <i>Scott Duncan, ROI</i>	An Evolution of Regional Land Cover Classifications Using Lidar and Hyperspectral Imagery <i>Chris Macon, SAM</i>	Proposed Approach for Design Investigations of Soft, Cohesive Soil Using In-Situ Testing Methods <i>M. Bailey</i>
2:30 p.m. - 3:00 p.m.	Bureau of Reclamation Dams <i>Veronica Madera and Tim Dolen, U.S. Bureau of Reclamation</i>	Insulation Resistance Testing of Electric Motors <i>David Barbour, CELRH</i>	Heat Recovery/Chilled Water Optimization <i>Scott Duncan, ROI</i>	High Speed Image Sharing Throughout the Enterprise <i>Jon Poly, ERDAS</i>	Lessons Learned from Adopting New Hurricane and Storm Damage Risk Reduction System Guidelines in New Orleans <i>T. Koutnik</i>

Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	David Ray	Bill Curtis	Dave Shepp	Robert Simrall	Michael Gee
Theme	Levee Geotechnical Issues	Coastal Models	Sustainable Rivers	Wetlands	Hydraulic Modeling
1:30 p.m. - 2:00 p.m.	Design and Construction of Emergency Riverbank Protection, Connecticut River, New Hampshire <i>S. Vaghar</i>	Surge and Wave Island Modeling Studies <i>Jane Smith</i>	Environmental Workshop	<ul style="list-style-type: none"> • Missouri River Recovery Program Shallow Water Habitat Creation <i>Zachary White</i> • Creation of a Coastal Marsh Using Maintenance Dredged Material <i>Randy Knott</i> • Environmental Stewardship is a Vital Part of the Mississippi River and Tributaries Channel Improvement Program <i>Jim Gutshall</i> • Sediment Issues/ Activities and the Status of a Regional Sediment Management Approach by Kansas City District <i>Michael Chapman</i> 	<ul style="list-style-type: none"> • WMS/GSSHA Spatial Hydrologic Modeling Demonstration <i>Cary Talbot</i> • Capabilities of MICUT <i>Brian Skahill</i> • GSSHA the USACE Accepted Fully Distributed, Physics Based, Hydrologic Model <i>Charles Downer</i> • Improved Empirical Model for Predicting Manning's N in Steep Streams <i>Benjamin Snyder</i>
2:00 p.m. - 2:30 p.m.	Geotechnical Risk and Uncertainty Evaluation Results for the Levee System Protecting Portions of Sacramento, California <i>M. Perlea</i>	Cleveland Harbor, Ohio, Thermal Plume Transport Investigation <i>David Mark</i>			
2:30 p.m. - 3:00 p.m.	History, Construction, Merits and Weaknesses of Sand Levees <i>T. Mack</i>	How Many Model Runs Are Necessary When Using Unsupervised-Supervised Artificial Neural Networks? <i>Bernard Hsieh</i>			

Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Infrastructure Protection - Physical & Electronic	Structural Engineering - Civil Works 1	Surveying & Mapping
Room	205B	Little Theater	207	230B	225
Moderator	Joan Klipsch	Yazmin Seda-Sanabria	Leigh Young	Rob Taylor	Bob Mesko
Theme	Water Management Modeling	Policy and Best Practices	Securing Borders and Combat Zones	Bridge Design and Details	LIDAR/Photogrametric Mapping
1:30 p.m. - 2:00 p.m.	<ul style="list-style-type: none"> Forecasting Coralville Inflows Using Artificial Neural Networks <i>Renjie Xia</i> LRD Water Management is Developing the Largest and Most Complex HEC-RAS Model Ever Used Operationally <i>Trent Schade</i> Multi-Objective Optimization of Reservoir Systems Using HEC-ResPRM <i>Christopher Dunn</i> Modeling the 2008 White River Flood with HEC Res-Sim <i>Kevin Fagot</i> 	Guiding Principles for the Nation's Critical Infrastructure: Addressing America's Failing Systems <i>Galloway, Lasswell and Manous</i>	USA/Mexico Border Fence –Design & Construction, West Texas, New Mexico <i>George Diewald, SPA</i> Ported Cable Combined with Optic Fiber as a Sensor for Detection of Tunneling Activity <i>James Evans, ERDC</i>	AASHTO LRFD Bridge Design Application– Canton Auxiliary Spillway Bridge <i>Robert Tucker, Daniel Morales</i>	Assessment of Object-Oriented Feature Extraction to Support the U.S. Army Corps of Engineers Mitigation and Recovery Land Cover Mapping Series <i>David Shaver, USGS</i>
2:00 p.m.- 2:30 p.m.		2009 ASCE Report Card for America's Infrastructure <i>Tehan and Mathew</i>	Defense of Small Forward Operations Bases (Combat Outposts) <i>David Coltharp, ERDC</i>	New Railroad Bridge Design at Kentucky Lock and Dam <i>John Harms</i>	Advances in Airborne LiDAR Sensor Technology to Improve Point Accuracy <i>Hobbs Layton, Woolpert</i>
2:30 p.m.- 3:00 p.m.		Balancing Investments to Ensure Critical Infrastructure Resilience: An International Perspective <i>Voeller</i>	Explosives Safety and Standardized Forward Operating Base Design <i>Susan Hamilton, HNC</i>	Identifying and Repairing Fatigue and Fracture Details In Bridges <i>Phil Sauser</i>	Using Oblique Aerial View Imagery to Supplement Traditional Overhead Ortho Imagery to Improve Views of Ground Features <i>Joe Seppi, Woolpert</i>

3:00 p.m. - 4:00 p.m. Break - Technology Hall

Track	BIM/CAD	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1
Room	202	203	209	212B	212A
Moderator		Ray Brown/ Terry Sherman	Paul Parsonault	David Pezza	Tatsuji Hirata
Theme		Airfield Pavement Quality Initiative Meeting	Miscellaneous Project Presentations	Vegetation on Levees	Dam Safety Case Studies
4:00 p.m. - 4:30 p.m.	Information Technology Issues Panel for Geospatial, CAD/BIM, and Water Management CoPs <i>Gary Seibert, Jule Bartels, Nancy Blyler, Jerry Webb and Bob Bank</i>	Airfield Pavement Quality Initiative Meeting <i>Ray Brown, ERDC, and Terry Sherman, USACE-TSC</i>	Lessons Learned with Underground Utilities-BCT-H Complex, Fort Carson, Colo. <i>Jacob Wiegmann</i>	Vegetation Guideline-The New ETL and Beyond <i>Kevin Holden and Maureen Corcoran</i>	Emsworth Locks and Dams <i>Kenneth Avery, Bergmann Assoc. Inc., Mark Zaitsoff and Denise Polizzano, Pittsburgh District, Paul Martin, Brayman Construction Co.</i>
4:30 p.m. - 5:00 p.m.			Korea Relocation Program <i>Greg Reiff</i>		Herbert Hoover Dike-Rehabilitation Cutoff Wall Construction <i>Randy Bush, Jacksonville District, and William Rochford, Chicago District</i>
5:00 p.m. - 5:30 p.m.			Permitting of the Charleroi Concrete Batch Plant to Meet Clean Water Standards <i>Joe Elwell and Mike Debes, LRP</i>	Looking at the Past: Building a Framework for Levee Vegetation Research <i>Lan Lee, ERDC</i>	Isabella Dam-Increase in Seismic Hazard at Isabella Dam: The Active Kern Canyon Fault <i>David Simpson, URS Corp., Ronn Rose, Sacramento District, Keith Wilson and J. N. Baldwin, William Lettis & Assoc. Inc.</i>
Track	Dam & Levee Safety 2	Electrical & Civil Works Mechanical	Energy, Sustainability, Mechanical Military Programs	Geospatial/GIS	Geotechnical & Materials Engineering 1
Room	211	201	230A	202	210
Moderator	Robert Fulton	Mark McNamara	Mary Foutz		Neil Schwanz
Theme	Dam Safety Case Studies	Electrical Engineering	Military Programs Mechanical Engineering		Geotechnical Design & Testing
4:00 p.m. - 4:30 p.m.	West Point Dam-Trunnion Anchor Rod Failures <i>George Poiroux and Davood Tashbin, Mobile District</i>	Tri-Service Electrical Safety Criteria <i>Eddie Davis, Edan Engineering Corp.</i>	Commissioning <i>Mary Foutz and Frank Meisel, CENAB, and Jeff Hardin, CEHNC-MX</i>	Information Technology Issues Panel for Geospatial, CAD/BIM and Water Management <i>Gary Seibert, Jule Bartels, Nancy Blyler, Jerry Webb and Bob Bank</i>	Numerical Analysis of T-Walls for St. Bernard Parish, New Orleans <i>M. Navin</i>
4:30 p.m. - 5:00 p.m.	Willowstick Studies Within Southwestern Division <i>D Wade Anderson, Tulsa District, Jose Hernandez, Fort Worth District, and Randel Mead, Tulsa District</i>		Common Mistakes in Mechanical Designs Related to LEED <i>Brandon Martin, CELRL</i>		The London Avenue Load Test <i>P. Conroy</i>
5:00 p.m. - 5:30 p.m.	Wolf Creek Dam <i>Michael Zoccola and Kyle Hayworth, Nashville District</i>		Finding the Weak Links in Your Water System <i>Tom Walski, Bentley</i>		Hydromill Slurry Wall Case Study: Lockport Approach Dike <i>A. Moore</i>

Track	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design	H&H - Hydrologic Studies
Room	208	204	205C	206	205A
Moderator	Richard Smith	Jack Davis	Dave Shepp	Dan Pridal	Jason Needham
Theme	Subsurface Geophysical Mapping	Coastal Models - II	Sustainable Rivers	BMP	Hydraulic Modeling
4:00 p.m. - 4:30 p.m.	Mapping and Intercepting Karstic Features at Center Hill Dam, Tennessee <i>W. Long</i>	MORPHOS: Real-Time Morphology Change Test-Bed Development and Model Verification <i>Heidi Wadman</i> Full-Plane STWAVE Sensitivity Analysis Testing at North Carolina Test Bed <i>Harry Friebel</i>	Environmental Workshop	<ul style="list-style-type: none"> • Creation of Missouri River Shallow Water Habitat <i>Daniel Pridal</i> • NPDES Permit Changes on USACE Construction Projects <i>John Baum</i> • Transporting Solids, Liquids, Sludge, Ore, Cement, Petroleum, or a Mix Thereof <i>Dan Sudweeks</i> • Microbial Pre-Treatment in Ecosystem Restoration Projects <i>Ralph Elliott</i> 	<ul style="list-style-type: none"> • Introducing Floodplain Delineation in HEC-RAS <i>Cameron Ackerman</i> • New Features of HEC-RAS 4.1 <i>Gary Brunner</i> • UNET to RAS Conversion for Southeast Louisiana Flood Damage Reduction Project <i>Martin Teal</i> • 150-Year-Old Infrastructure vs. HEC-RAS: Modeling the Lower Fox River, Wisc. <i>Travis Dahl</i>
4:30 p.m. - 5:00 p.m.	Audio Frequency Domain Magnetics Applied to Map Seepage at Clearwater Dam, Mo. <i>M. Harris</i>	Beach-fx - Applications of Results <i>Alex Hettinger, SAJ</i> Beach-fx – Jacksonville District's Implementation and Results from the First Run of a National Model <i>Steve Bratos</i>			
5:00 p.m. - 5:30 p.m.	Use of Aqua Track Technology at East Branch Dam, Pa. <i>J. Sekela</i>	The Numerical Model CSHORE <i>Mark Gravens</i>			
Track	H&H - Water Management	Infrastructure Protection, Security & Resilience	Infrastructure Protection - Physical & Electronic	Structural Engineering - Civil Works 1	Surveying & Mapping
Room	205B	Little Theater	207	230B	202
Moderator	Fauwaz Hanbali	Vic LaGarde		Pete Rossbach	
Theme	Water Management Modeling	Standards and Criteria	Electronic Security System Procurement	Bridge Evaluation, Maintenance, and Repair	
4:00 p.m. - 4:30 p.m.	Challenges in Reservoir Systems Modeling: Special Techniques in HEC-ResSim <i>Joan Klipsch</i>	Changes to the DOD Anti-terrorism Standards for Buildings <i>Betts</i> The DOD Security Engineering Planning Manual <i>Betts</i>	Procurement Methodologies of Electronic Security Systems <i>Leigh Young</i>	Bridge Maintenance and Repair Prioritization Based on Risk and Reliability <i>Phil Sauser</i>	Information Technology Issues Panel for Surveying and Mapping, Geospatial, CAD/BIM and Water Management <i>Gary Seibert, Jule Bartels, Nancy Blyler, Jerry Webb and Bob Bank</i>
4:30 p.m. - 5:00 p.m.	Stream Gages Along Major Waterways: Location, Location, Location <i>Tim Rodgers</i>	Automation of the DOD Security Engineering Facilities Planning Manual <i>Veys</i>		Repair for a Cracked Steel Bridge Girder by Thermal Preload <i>Michael Mills</i>	
5:00 p.m. - 5:30 p.m.	A New Method for the Measurement of Bedload Transport Using Time-Sequenced Bathymetric Data <i>David Abraham</i>	DOD Progressive Collapse Criteria: Preview of the New UFC 4-023-03 <i>Campbell</i>		Fire Effects on Structural Steel – Big Four Bridge Case Study <i>Timothy Wessel</i>	

5:30 p.m. Technology Hall Closed - Dinner on own



AGENDA

FRIDAY, JULY 24

Community of Practice Activities

Track	Civil Engineering & Transportation	Construction & AE Mgt	Dam & Levee Safety Policy	Dam & Levee Safety 1	Dam & Levee Safety 2
Room	203	209	212B	212A	211
Activity/Time	Civil Engr CoP Mtg & Airfield Pavement Quality Initiative 8:00 a.m. -12:00 p.m.	LEED Workshop 8:00 a.m.-12:00 p.m.	Dam & Levee Safety CoP Mtg 8:00 a.m.-10:00 a.m. & 10:30 a.m.- 12:30 p.m.	Dam & Levee Safety CoP Mtg 10:30 a.m.-12:30 p.m.	Dam & Levee Safety CoP Mtgs 8:00 a.m.-10:00 a.m. & 10:30 a.m.-12:30 p.m.
Track	Geotechnical & Materials Engineering 1	Geotechnical & Materials Engineering 2	H&H - Coastal	H&H - Environmental	H&H - Hydraulic Design
Room	210	208	204	205C	206
Activity/Time	Geotechnical and Materials CoP Mtg, 8:00 a.m.-12:00 p.m.	Geotechnical and Materials CoP Mtg. 8:00 a.m. -12:30 p.m.	H&H CoP Mtg. 10:00 a.m.-12:30 p.m.	H&H CoP Mtg. 10:00 a.m.-12:30 p.m.	H&H CoP Mtg. 10:00 a.m.-12:30 p.m.
Track	H&H - Hydrologic Studies	H&H - Water Management	Structural Engineering - Civil Works		
Room	205A	205B	230B		
Activity/Time	H&H CoP Mtg. 10:00 a.m.-12:30 p.m.	H&H CoP Mtg. 10:00 a.m.-12:30 p.m.	HSS Workshop 8:00 a.m.-11:00 a.m.		

Conference Ends



TECHNOLOGY HALL

Be sure to visit the Technology Hall for current information and demonstrations of new services and products. Company descriptions, points of contact and exhibit booth locations may be found in the Technology Hall Program that is part of your registration packet.

Technology Hall Hours

Sunday, July 19

12:00 p.m.–5:00 p.m. Exhibitor Setup

Monday, July 20

8:00 a.m.–12:00 p.m. Exhibitor Setup
5:30 p.m.–7:00 p.m. Welcome Reception
in Technology Hall
Sponsored by Positively
Cleveland, the Convention
& Visitors Bureau of
Greater Cleveland

Tuesday, July 21

9:00 a.m.–7:00 p.m. Technology Hall Open
9:30 a.m.–10:30 a.m. Break in Technology Hall
12:00 p.m.–1:30 p.m. Lunch in Technology Hall
3:00 p.m.–4:00 p.m. Break in Technology Hall
5:30 p.m.–7:00 p.m. Ice Breaker
in Technology Hall

Wednesday, July 22

9:00 a.m.–6:30 p.m. Technology Hall Open
9:30 a.m.–10:30 a.m. Break in Technology Hall
12:00 p.m.–1:30 p.m. Lunch in Technology Hall
3:00 p.m.–4:00 p.m. Break in Technology Hall

Thursday, July 23

9:00 a.m.–5:30 p.m. Technology Hall Open
9:30 a.m.–10:30 a.m. Break in Technology Hall
3:00 p.m.–4:00 p.m. Break in Technology Hall
5:30 p.m. Technology Hall Closes
5:30 p.m.–8:00 p.m. Exhibitor Tear Down