

2003 Infrastructure Systems Conference, 6-8 May 2003, Bally's Hotel, Las Vegas, Nevada

Structural Engineering Workshops: Military and Civil Works

Tuesday, 6 May 2003; 1:30 PM - 8:00PM

Workshop	Structural Engineering - Military	Structural Engineering - Civil Works	Structural Engineering - Civil Works
Room	Las Vegas Rooms 1 & 2	Las Vegas Room 3	Las Vegas Room 4
Subject	Military Structures	Civil Works Structures	Civil Work- Innovation for Navigation Projects
Moderator	Tom Wright, NWK	John Clarkson, CELRH	Paul Stroup, CESAJ
1:30 PM - 3:00 PM	Masonry Infilled Structures: Evaluation Procedure and Rehabilitation Design Using FRP; Greg Lamb, ERDC-CERL-IL Contractor	Design Build:Olmsted Miter Gate Storage Yard at Smithland L&D; Greg Wernecke, CELRL	Harvey Canal Float-In Sector Gate Complex; Mark Gonski/Chris Dunn, CEMVN
	In-Plane Performance of Masonry Walls Strengthened With Surface Applied FRP Sheets; Orange Marshall, ERDC-CERL-IL	Saw Mill run-Lessons Learned in Constructing Anchored Post and Panel Retaining Walls Anton Krysa, CELRP	Unique Construction Methods and Sequence for New Loc at the same location of existing Lock; Brian McFarland, CELRP
	Cold-formed Steel Design; Jim Wilcoski, ERDC-CERL-IL	Retaining Walls with Multiple Rows of Anchors Dr. Robert Ebeling, ERDC-ITL	Use of RCC in McAlpine Lock - Chamber Monolith Walls; Larry Dalton, CELRL
3:00 PM - 4:00 PM	Exhibit Hall Visit		
Moderator	John Jaeger, NWK	Joe Kubinski, CELRE	Rick Poeppelman, CESPCK
4:00 PM - 5:30 PM	Effects of Supertyphoon Pongsona on Guam Structures; Dennis Potter, CESPCK	Southeast Louisiana Flood Control Project; Darryl Bonura, CEMVN	Chickmauge Lock - Innovative Design Study; James Gunnels and Sam Yao, CELRN
	Blast Attenuating Lightweight Concrete for Munitions Storage Buildings; Ronald Burger, PCI	Duck Creek Phase III Flood Protection Project; Terry Sullivan, CELRL	Kentucky Lock Addition Innovative Downstream Cofferdam; Ronald Carter, CELRN
	Design of Aviation Facilities; Vince Donnally, NAVFAC	Case Studies- Monitoring Structural Response for Performance Evaluation; Chiarito/Evans/Cox/Barker ERDC-GSL	Design by Analysis of Innovative Navigation Structures; Guillermo Riveros ERDC-ITL
5:30 PM - 8:00 PM	Exhibit Hall Visit		
Wednesday, 7 May 7:00 AM - 8:00 PM			
6:30 AM - 8:00 AM	Exhibit Hall and Coffee		
Subject	Military Structures	Civil Works - Locks	Civil Works - Dam
Moderator	Pete Rossbach, HQ USACE	Robert Conley, CESPL	Tom Leicht, CESAJ
8:00 AM - 9:30 AM	Observations From Ft. Lewis in the 2001 Nisqually Earthquake; Steve Sweeney, ERDC-CERL-IL	Update of Engineering Guidance for Concrete Hydraulic Structures; Chudgar, CECW-EW	Portugues Dam (RCC Arch Dam); Ponce, Puerto Rico; Dave Dollar, CESAJ
	Seismic Design For Special Truss Moment Frames; Greg lamb ERDC-CERL-IL Contractor	Lockwall Movement - Melvin Price L &D; Amanda Sutter, CEMVS	Foldom Dam Outlet Modification Projects; Rick Poeppelman/Ken Myers (HDR), CESPCK
		NISA of Unque Wall Monoliths of the Charleroi Lock; C.Tasillo/B.Fahl, CELRP	Cougar Dam Intake Tower - Selective Withdrawal Modifications; Don Erickson/ Don Chamber, CENWP
9:30 AM - 10:30 AM	Exhibit Hall Visit		
Subject	Military Structures	Civil Works - Structures	Civil Works - Dam
Moderator	Chris Westbrook, CENAB	Gordon McClellan, LRN	Holly Gittings, CELRL
10:30 AM - 12:00 PM	Prototype Testing of Seismic Isolation Components; Doug Grant, CEHNC	Fox River Dam Modifications and Innovative Use of Steel Plated Inflatable Spillway Gates; David Force, CELRC and Robert Eckman, Obermeyer Hydro, Inc.	Kaweah River Project, CA-Terminus Dam Spillway Raise; Mike Ruthford, CESPCK
	Application of Overstrength Factor in Seismic Design for Structural Steel Lateral Load Resisting System Sinniah Sivakumar, CENWK	Bonneville Second Powerhouse Downstream Migrant Salmonid; M.Hanson and D.Chamber, CEMWP	Bonneville Spillway Flow Deflectors; Jeff Hurt, CENWP
	A Study of the Murrah Federal Building: Blast and Progressive Collapse Resistance Gained by Seismic Strengthening; Jack Hayes, CERL/Stan Woodson, GSL.	Columbia L&D Barge Accident; Allen Perry, CEMVK	Modular Hydrid Pier; Odello, NAVFAC
1200 PM - 2:00 PM	Lunch and Exhibit Hall Visit		

Structural Engineering Workshops: Military and Civil Works Projects

Room	Las Vegas Rooms 1 & 2	Las Vegas Room 3	Las Vegas Room 4
Subject	Military Structures	Civil Works - Seismic	Civil Works - Navigation Projects
Moderator	Stacey Anastos, CENAD	Dr. Robert Hall, ERDC-GL	Tom Hassenboehler, MVN
2:00 PM - 3:30 PM	OCONUS Navy Seismic Hazards Mitigation Program Owen Hewitt, EICO/Rick Kahler, LANTDIV	Seismic Evaluation of Intake Tower-Bridge System; Vincent Chiarito ERDC-GSL	Design and Construction Considerations for the Charleroi L&D Middle Wall; Brian McFarland, CELRP
	UFC Masonry Structural Design For Buildings; Tom Wright, CENWK	Seismic Retrofit of Intake/Outlet Structures; Dr. Richard Dove, ERDC-GSL	London Major Rehab. New Guard Wall and Lock Extension; Dave Sullivan, CELRH
	Warehouse Timber Truss Failure Investigation; George Diewald, CESPA	Rotational Analysis of Retaining Walls During Earthquake; Dr. Robert Ebeling, ERDC-ITL	Charleroi L&D - Floating Lower Guard Wall; Stephen Stoltz, CELRP and Dale Miller, INCA Engineers
3:30 PM - 4:00 PM	Exhibit Hall Visit		
Subject	Military Structures	Civil Works - Seismic	Civil Works - Navigation Projects
Moderator	Paul Tan, HQ USACE	Wayne Jones/ERDC-ITL	Don Chambers, NWP
4:00 PM - 5:30 PM	Field Testing of Reinforced Concrete Bridges for Load Capacity Assessment; Yazmin Seda-Sanabria and Stanley Woodson, ERDC-GSL-MS	Bonneville Navigation Lock Ambursen Dam-Seismic Evaluation; Travis Adams, CENWP	Use of Precast Concrete Stay-In-Place forms for Vertical and Horizontal Resurfacing; Tomas Mack, CEMVR
	Heat Straightening Repair of Damaged Steel Bridges; John Jaeger, CENWK		Lock Guidewall Post Tensioning; R.Dempsey and T.Fares, CEMVP
	Inspection, Reporting, and Evaluation of a Fracture Critical Member (FCM) Bridge; Philip Sauser, CEMVP	Seismic Stability of Concrete Dams; E. Matheu, ERDC, D.Yule, ERDC, and S. Graff, CESPK	Navigation Anchoring for River Wall Monolith of J.T.Myers L&D; Fred Sheffield, CELRL
5:30 PM - 8:00 PM	Exhibit Hall Visit		
Thursday, 8 May 7:00 AM - 12:00 PM			
6:30 AM - 8:00 AM	Exhibit Hall and Coffee		
Subject	Military Structures	Civil Works - Steel Structures	Civil Works - Risk and Reliability
Moderator	Byron McClellan, CELRL	Tom Quigley, CEMVS	Byron Foster, CESAD
8:00 AM - 9:30 AM	Fatigue Cracking of Floorbeam Connection Angles for Chesapeake City Bridge; Cameron Chasten, CENAP	Fracture Evaluation of Existing Bulkhead Phillip Sauser, CEMVP	Risk Analysis for Dam Safety R&D Program; Wayne Jones, ERDC-ITL
	Palm Valley Bridge Replacement St. Johns County, FL; William Hamel, CESAJ	Spillway Gate Maintenance Bulkheads; Larry Winters, CESWL	Methodology for Risk Analysis of Dam Gates and Associated Operating Equipment Using Fault-Tree Analysis; R.Patev, CENAE
	Upgrading/Strengthening Marginal Wharf Using FRP George Warren, NFESC	Tainter Gate Lower Dam Stilling Basin-Dewatering Bulkhead; G.Werncke and D.Berner, CELRL	Reliability Analyses of Concrete Deterioration for the Chickamauga Lock Replacement; David Schaaf, CELRL
9:30 AM - 10:30 AM	Exhibit Hall Visit		
Subject	Military Structures	Civil Works - Steel Structures	Civil Works - Finite Element Analysis
Moderator	Jack Hayes, ERDC-CERL	Vic Agostinelli, CEMVD	Robert Taylor, CELRD
10:30 AM - 12:00 PM	The New "M" Magazine Standard Design and Standard Approved Designs; Owen Hewitt, NAVFAC	Fatigue Investigation of Tainter Gate - Dam 24; T.Ruf and J.Padula, CEMVS	FEA of Concrete Lock Wall Monoliths-McAlpine Lock; Kathleen Feger, CELRL
	Rapid Construction of Buildings for Use in Military Simulations; Mike Pace ERDC-ITL-MS	Inspection, Evaluation and Repair of Hydraulic Steel Structures at Portland District; Lance Helwig and Perry Cole, CENWP	FEA for Miter Gate - Kentucky Lock Addition; Jeffrey Bayers, CELRL
	Rapid Interactive 3D Structural Computer Modeling, Survivability and Protective Structures; Mike Pace, ERDC-ITL-MS	European - Lock and Dam Gates; Andy Harkness and John Clarkson, CELRH	FEM Techniques for Alkali-Aggregate Reaction for Lock; Chris Merrill, ERDC-ITL
12:00 PM	END OF CONFERENCE		
1:00 PM - 5:00 PM	Seismic Rehabilitation Fundamentals; Helen Petersen, CENWD	Engineering Risk and Reliability; David Schaaf, CELRL, Robert Patev, CENAE, Dave Moser, CEIWR	Fatigue and Fracture of Steel Structures; Joe Padula, ERDC-ITL, Cameron Chasten, CENAP; Tom Ruf, CEMVS
1:00 PM - 5:00 PM		Palace Rooms 3, 4 & 5; CASE Demonstrations; Wayne Jones/ ERDC-ITL	