

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

Mechanical Engineering and Electrical Engineering Workshops

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

Workshop	Mechanical Engineering - Military	Mechanical Engineering - Civil Works	Electrical Engineering - Military	Electrical Engineering - Civil Works
Room	Bronze Room 1	Bronze Room 2	Bronze Room 3	Bronze Room 4
Moderator	Joe McCarty, HQ USACE	James Pace	Bob Billmyre	Bryan Radtke
1:30 PM - 3:00 PM	HVAC Controls - David Schwenk (CERL) (60 min)	Direct-Acting Miter Gate Machinery - Richard Nimmo (CELRN) New Hydraulic Wash-Down Barge at Olmsted Lock - Rick Schultz (CELRN)	Tri-Service Criteria Panel- Bob Billmyre/Bob Fite, HQUSACE, John Peltz/Jimmy Stewart, NAVFAC, Tom White/Larry Strother, AFCESA/CES (60 Min)	Electro-Osmotic Pulse Technology for Control of Water Seepage - Vince Hock, ERDC (30 Min) Seismic Concerns for Electrical Components - Helen Petersen, NWD (30 Min)
	Mech.Design:TABB system initially & in future-Gary Andis (NEMI) (30 min)	Berlin Dam – Combining 1940's Design with 21st Century Technology:Flow Control System Improvements; TJ Fichera (CELRP)	Lighting Technology - David Nelson, Clanton Engineering (30 Min)	Aging Electrical Infrastructure, risks,opportunities and options - Greg Hausman, Cutler Hammer (30 Min)
3:00 PM - 4:00 PM	Exhibit Hall Visit			
Moderator	Harry Goradia, HQ USACE	Stephen (Duke) Loney	Bob Fite	Harry Simpson
4:00 PM - 5:30 PM	HVAC Directory of Expertise (DX) - Sandy Wood (HNC)	Discharge Pipe Repair at North Pump Station - Stephen Farkas (CEMVS)	Future of Communications cables - Joe Swiniarski, NWO (30 Min)	Cathodic Protection DX - Civil Works, Mike Wallace, SAM (30 Min)
	Alternative Ventilation Strategies for IAQ - Mike Weise (TRANE) (60 min)	Pump Stations - Lessons Learned During Construction Mark Robertson (CELRN) Bearing Problems - Large Water Lubricated Pumps - Stanley Pilinski (CESAJ)	ISA Implementation - ISEC-FDEO, John Verbanick (30 Min) Utility Monitoring and Control Systems Criteria Update - Chuck Holland, HNC (30 Min)	Cathodic Protection Testing on Submerged Hydraulic Steel Structures; Berry Cannon, SAM (30 Min) State of the art in protection against potential waterborne threats -Ken Johnson, ESC (30 Min)
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			
Moderator	Joe McCarty, HQ USACE	Philip Wagner	Darrel Anerton	Bob Fite
8:00 AM - 9:30 AM	Protecting Building Environments from Airborne Chemical, Biological or Radiological Attacks - Rich Heiden (OMAHA District)	Got Fish? Hydraulic Turbine Environmental Issues - Dick Fisher, Patrick March, Virgil Hobbs III (Voith, CESAS) (60 min)	Cathodic Protection DX - Military Programs, Mke Wallace, SAM (30 Min)	Automation and remote control of locks and Dams Operating in Europe - Dave Fair and Erich Wirzberger, Bosch Rexroth (60 Min)
	Smart Buildings - Dr. Richard Lewis (DTRA)		Variable Speed Drives - Joe Swiniarski, NWO (30 Min)	
	Fuel Cells - Scott Wilshire (Plug Power Inc.)	Richard B Russell Pump Storage Addition and Environmental Challenges - Bill Lynch (CESAS)	Arc-Fault Combination Circuit Interrupters Panel - AI Sidhom, SPD , Joe Miller, NWD, Larry Covert, SAM (30 Min)	Automation for the control systems at locks and dams-Advanced technologies for civil works projects; Andy Schimpf, MVS, Mike Maher, Graybar Electric (30 Min)
9:30 AM - 10:30 AM	Exhibit Hall Visit			
Moderator	Thomas Harris, NAVFAC	Rick Schultz	John Peltz	Gary Jones
10:30 AM - 12:00 Noon	Geothermal Energy Project- Dr. Monastero (NAVFAC)	Design Considerations for Hydraulic Systems for Locks and Dams - Parveen Gupta (Rexroth)	Primary Distribution Systems- Jimmy Stewart, NAVFAC (30 Min)	Automation for the control systems at lock and dam projects -advanced technologies for civil works projects - Andy Schimpf, MVS, Mike Maher, Graybar Electric (45 Min)
	Seismic Protection of Utilities Systems - Helen Petersen (NWD)	Computerized Simulation Optimizes Hydraulic Drive System Design & Performance - Parveen Gupta (Rexroth) (60 min)	Utility assessment to identify critical infrastructure dependencies that are vital to national security - JPO-Martin W. Henry (30 Min)	
	Advantages of Using Grooved Pipes in Seismic Areas - Dennis Love (Victaulic)		Commissioning of Data Center and Critical Facility Infrastructure, Terry Gillick & Dan McNary , Syska Hennessy Group (30 Min)	Pump Station Automation and Remote Control - Shashi Makker, SAJ and John Mayer, HDC (45 Min)
1200 PM - 2:00 PM	Lunch and Exhibit Hall Visit			

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Moderator	Al Day, AFCESA	Mark Robertson	Jimmy Stewart	Bob Fulton
2:00 PM - 3:30 PM	Ground Source Heat Pumps - Gerald Doddington (USAFE)	Surface Preparation for Painting Hydraulic Structures - Al Beitelman (CERL)	Tri Service Airfield Panel- Larry Strother, AFCESA/CES, John Peltz, NAVFAC, John Gregory, NWO (60 Min)	North Pacific Region Transformer Study - Scott Cotner, HDC (30 Min)
	Refrigerant Management - Gerald Doddington (USAFE)	In-Situ Measurement and Machining of Abiquiu Dam Emergency Gates - Michael Guerin (CESPA) (60 min)		Little Goose Dam 13.8kV Feeder Ground Relaying Upgrade - Scott Cotner, HDC (30 Min)
	Fuel Systems - Patrick Mumme (USAFE)			Airfield Grounding- Larry Strother, AFCESA/CES, John Peltz, NAVFAC (30 Min)
3:30 PM - 4:00 PM	Exhibit Hall Visit			
Moderator	Randy Miller, CEHNC	James Pace	Bob Billmyre	Bob Fite
4:00 PM - 5:30 PM	Moisture Generation in Buildings/Ventilation - Dave Walker (Foster-Miller)	Composite Greaseless Bearings for Lock & Dam and Hydropower Application - Design Considerations - Guido Viviano (Tenmat) (60 min)	Lightning Protection - Mark McNamara, NWO (30 Min)	Lock and dam security program - Pete Brake, ESC (30 Min)
	Efficient Heat Transfer in Piping Systems - Dr. Charles Marsh (CERL)		TVSS- Joe Johnson, Square D (30 Min)	Corps Of Engineers Infrastructure Security Enhancement, Mian Rehman, NWK (30 Min)
	Operations & Maintenance as Part of New Construction - Steve Birch (NAP)		Self-Lubricating Materials for Navigation Machinery - Dave Stephenson (CERL)	Harmonic Mitigation Equipment - Mike Lowenstein, Harmonics Limited (30 Min)
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			
Moderator	Sandy Wood, CEHNC	Stephen Farkas	Mian Rehman	John Peltz, NAVFAC
8:00 AM - 9:30 AM	Sustainable Design - Harry Goradia (HQ USACE)	Planning the Rehabilitation of Ozark and Webbers Falls Powerhouse - Mark Lindstrom (CENWP)	Distributed Generation and Combined Heat and Power technologies and implications for energy infrastructure security - Shawn Herrera, FEMP	Navy Electrical Engineering Meeting
	Sustainable Design - Brian Cooper (NAVFAC)	New Generation of Turbine Oils - John Micetic (CENWP)	Secure, Highly Reliable Source of Electricity to Mission Critical Facilities; Keith Spitznagel, Sure Power Corp.	
	Commissioning - Randy Miller (HNC)	Condition Assessment of Hydro Equipment - Stephen (Duke) Loney (CENWP)	Energy Efficient Electrical Equipment - Phil Coleman Lawrence Berkeley National Laboratory (30 Min)	
9:30 AM-10:30 AM	Exhibit Hall Visit			
Moderator	Sami Rahman, HQ USACE	James Bartek	Johnny Baggette	John Peltz, NAVFAC
10:30 AM - 12:00 Noon	HVAC Excellence - Vijay Gupta (GSA)	Energy Efficient Products for Design & Construction Projects - Phil Coleman (DOE-FEMP)	Tradeoffs in CCTV applications of TCP/IP type dome cameras - Darrel Anerton, ESC (30 Min)	Navy Electrical Engineering Meeting
	Thermal Storage, Ice-On-Coil, - Mark MacCracken (Calmac Manufacturing Corp)	Oil/Water Separation Systems - David Kloewer (CENWP)	Process and preparation required for a successful security design charrette - Pete Brake, ESC (30 Min)	
	Energy Efficient Mechanical Equipment - Phil Coleman, (DOE/FEMP)	Tainter Gate - Some Design, Operating & Maintaining Do's & Don't's - Dr. BTA Sagar	Electrical systems to protect the public in the event of a toxic chemical leak during demil process; Larry Covert, SAM (30 Min)	
12:00 PM	END OF CONFERENCE			
1:00 PM - 5:00 PM	Indoor Air Quality, Alternative Ventilation Strategies – Mike Weise, Trane Company	Innovative Lock & Dam Gate Operating Systems - Design, operating, maintenance & inspection issues; where we're headed and what's needed to maintain existing E/M infrastructure - Richard Nimmo CELRN; Jim Bartek CEMVR; Rick Schultz CELRL; Andy Schimpf CEMVL...	2002 NEC Code Changes - Donald Shields, NFPA	Electronic Security Systems Mini Design Course For Military and Civil Works Projects - Pete Brake, ESC