

Technology Exchange Meeting October 28 – 30, 2014

Coastal & Hydraulics Laboratory
Conference Facility

Tuesday, October 28

- 7:30 – 8:00 Arrive, Check-in, Coffee
- 8:00 – 8:30 Welcome & Introductions
- 8:30 – 10:00 Penstocks
Microbots for inspections USACE – Wozencraft
Rehab of dam / re-lining the penstocks TVA
- 10:00 – 10:15 Break
- 10:15 – 11:45 Lock Design Improvements
Lock culvert valve research USACE – Stockstill
Flexible Approach Walls USACE – Ebeling
Pintle Re-design USACE – Wilson
- 11:45 – 12:45 Lunch
- 12:45 – 2:15 Lock Gates (cont.)
Structural Health Monitoring / Prediction USACE – Smith
Finite Element Modeling USACE – Riveros
Innovative European Gate Component Designs USACE – Hood
- 2:15 – 2:30 Break
- 2:30 – 4:00 Lock Gates
Position Sensors / Overload protection for SLS / USACE – Nichols
gate operating machinery
Greaseless Bearings SLS / USACE – Hess
Update on INDC USACE – Joers
- 4:00 – 4:15 Re-visit any of the day's topics, Action Items & Adjournal

Wednesday, October 29

- 7:45 – 8:00 Arrive, Coffee
- 8:00 – 9:45 Hydraulic Modeling
Currents at Lock Approaches USACE – Martin
Coatings / Materials / Corrosion Protection
Nanotube paint performance/applications USACE – Drozd
Coating inspection by electrochemical impedance spectroscopy USBR – Merten
- 9:45 – 10:00 Break
- 10:00 – 11:30 Coatings / Materials / Corrosion Protection (cont.)
Corrosion health monitoring & data collection strategies USBR – Torrey
FRP Composites Applications USACE – Lampo
bumpers, rollers, slides, contact blocks, durable wear coatings, steel repair

**Technology Exchange Meeting
October 28 – 30, 2014**

Wednesday, October 29 (cont.)

- 11:30 – 12:15 Lunch
- 12:15 – 2:30 ERDC Tour and Discussions
- 2:30 – 2:45 Break
- 2:45 – 4:00 Lock Systems Improvements
Saint Lawrence Seaway Modernization
Vacuum Mooring and Self-Spotting technologies SLS
Tolerances for plumbness and alignment for miter gates SLS – Tom L.
- 4:00 – 4:15 Re-visit any of the day's topics, Action Items & Adjourn

Thursday, October 30

- 7:45 – 8:00 Arrive, Coffee
- 8:00 – 9:45 Concrete Repairs
High performance concrete for rapid repairs and underwater repairs USACE – Moser
Anchoring
Multi-strand anchor status USACE – Ebeling / Evans
- 9:45 – 10:00 Break
- 10:00 – 11:45 Inspection Methods and Techniques
Concrete materials properties investigation for USBR – Bartojay
finite element model inputs
Risk mitigation testing for attacks on dam USBR – Percell
- 11:45 – 12:45 Lunch
- 12:45 – 2:15 Inspection Methods and Techniques (cont.)
Acoustic camera imaging USACE – Evans
Emerging underwater imaging methods USACE – CHL Field Data Collection
- 2:15 – 2:30 Re-visit any of the day's topics & Action Items
- 2:30 – 3:00 Capture all Action Items
- 3:00 Adjourn