

**Department of Homeland Security Science & Technology
Southeast Regional Research Initiative (SERRI)
Semi-Annual Project Review Meeting
(New Projects Begun 12/07 & Legacy Projects Not Reviewed 3/08)
September 16-17, 2008
Jackson Marriott, Jackson, MS**

Day 1

7:30 – 7:55 Coffee and Juice

7:55 – 8:05 Welcome/Introductions

Warren Edwards

8:05 – 8:15 DHS Opening Remarks

Michael Matthews

Dams, Levees and Flood Projects

8:15 – 8:45 Multi-Purpose, Multi-Scale Storm Surge and
Flood Forecasting for Planning and Preparedness

Shahrouz Aliabadi
Jackson State University

8:45 – 8:55 Q&A

8:55 – 9:25 Increasing Community Disaster Resilience
Through Targeted Strengthening of Critical
Infrastructure

Isaac Howard/Chris Saucier
Mississippi State University

9:25 – 9:35 Q & A

9:35 – 10:05 Structural, Material, and Geotechnical Solutions
to Levee and Floodwall Construction and
Retrofitting

Alex Cheng/Chung Song
University of Mississippi

10:05 – 10:15 Q & A

10:15 – 10:30 **Break**

10:30 – 11:00 Development of an Integrated Simulation Tool
for Predicting Disastrous Flooding, Water
Contamination, Sediment Transport and their
Impacts on the Environment

Yafei Jia
University of Mississippi

11:00 – 11:10 Q & A

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| 11:10 – 11:40 | Mississippi Groundwater, Surface Water, and Dam Inventory and Vulnerability Assessment | Robert Holt/Joel Kuszmaul University of Mississippi |
| 11:40 - 11:50 | Q & A | |
| 11:50 – 12:50 | <i>SERRI Networking Lunch</i> | |
| 12:50 – 1:20 | Simulation-Base Decision Support System for Water Infrastructural Security (DSS-WISE) | Mustafa Altinakar University of Mississippi |
| 1:20 – 1:30 | Q & A | |
| 1:30 – 2:00 | Computational Tools for Water Security | Yafei Jia/Tingting Zhu University of Mississippi |
| 2:00 – 2:10 | Q & A | |
| 2:10 – 2:25 | <i>Break</i> | |
| Border Security & Natural Disaster Recovery Projects | | |
| 2:25 – 2:55 | Secure Border Initiative Unattended Ground Sensor Networks | Patrick Donohoe/Gary Butler Mississippi State University |
| 2:55 – 3:05 | Q & A | |
| 3:05 – 3:35 | Tools for Enhanced Mapping and Managing Post-Disaster Debris | Charles Waggoner Mississippi State University |
| 3:35 – 3:45 | Q & A | |
| 3:45 – 4:00 | <i>Break</i> | |
| Regional Resilience Project | | |
| 4:00 – 4:30 | Resilient Homes & Resilient Forests | John Plodinec Savannah River National Lab |
| 4:30 – 4:40 | Q & A | |
| Chemical/Biological Detection Project | | |
| 4:40 – 5:10 | Development of an Integrated Sensor System for Real-time Monitoring of Metabolites of Organophosphoru Chemical Warfare Agents, Pesticides, and E. coli in Food and Water | Yolanda Jones Alcorn State University |
| 5:10 – 5:20 | Q & A | |
| 5:20 – 5:30 | Wrap-Up – Review Plans for Day 2 | |

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Day 2

7:30 – 7:50 Coffee and Juice

7:50 – 8:00 Opening Remarks

Critical Infrastructure Protection Projects

8:00 – 8:30 Semantics-Driven Knowledge Discovery System for Wide Area Monitoring of Electric Power Grid
Kari Babski-Reeves
Anurag Srivastava
Mississippi State University

8:30 – 8:40 Q & A

8:40 – 9:10 Nano-Particle Reinforced Composites for Critical Infrastructure Protection
Alex Cheng/Chung Song
University of Mississippi

9:10 – 9:20 Q & A

9:20 – 9:50 Southeast Region Critical Infrastructure Protection Center Initiative (CIPC)
Ray Vaughn
Mississippi State University

9:50 – 10:00 Q & A

10:00 – 10:15 *Break*

Training & Simulation Project

10:15 – 10:45 REALSIM: Data-Driven Simulation System For Training, Decision Support, and Policy Evaluation
Kalyan Perumalla
Oak Ridge Nat'l Laboratory

10:45 – 10:55 Q & A

Incident Management and Information Sharing Projects

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| 10:55 – 11:25 | Real-Time Operations Support for Emergency Evacuations | Li Zhang Mississippi State University Oscar Franzese Oak Ridge Nat'l Laboratory |
| 11:25 – 11:35 | Q & A | |
| 11:35 – 12:30 | <i>SERRI Networking Lunch</i> | |
| 12:30 – 1:00 | Utilization of Emergency Alert Systems | Dallas Breen/David Parrish Mississippi State University |
| 1:00 – 1:10 | Q & A | |
| 1:10 – 1:40 | Kentucky Information Fusion Center | Cyrus Smith Oak Ridge Nat'l Laboratory |
| 1:40 – 1:50 | Q & A | |
| 1:50 – 2:05 | <i>Break</i> | |
| 2:05 – 2:35 | Integrated Threat Tracking Information System | Doug Kreis University of Kentucky Michael Hail Morehead State University |
| 2:35 – 2:45 | Q & A | |
| 2:45 – 3:15 | Data-Sharing Middleware for Information Dissemination among Heterogeneous Sources | Hairong Qi/R. Gunasekaran University of Tennessee |
| 3:15 – 3:25 | Q & A | |
| 3:25 – 3:40 | <i>Break</i> | |
| 3:40 – 4:10 | Information Sharing Policy Review | Frances Butler Y-12 Nat'l Security Complex |
| 4:10 – 4:20 | Q & A | |
| 4:20 – 4:50 | All Hazards Emergency Operations Management System (ALLHAZ) | Edward Collins Jackson State University |
| 4:50 – 5:00 | Q & A | |
| 5:00 – 5:15 | Closing Comments & Remarks | SERRI & DHS |