



## 2013 Flood Risk Management - Silver Jackets Webinar Week August 20 –22, 2013

*Draft Agenda as of July 10, 2013\**

Tuesday, August 20, 2013			
1:00 – 3:00 EDT	<i>Opening Plenary: Agency Coordination in Superstorm Sandy Recovery</i> Speakers: Karen Durham-Aguilera (USACE), Roy Wright (FEMA), Margaret Davidson (NOAA), Dave Rosenblatt (NJ DEP)		
Break			
3:30 – 5:00 EDT	<i>Session A1</i>	<i>Session A2</i>	<i>Session A3</i>
<i>Concurrent Sessions (A)</i>	<b>Levee Safety Portfolio Risk Management and Accreditation Task Force</b>	<b>Improving Flood Inundation Mapping through Interagency Efforts</b>	<b>Nonstructural Alternative Projects</b>

Wednesday, August 21, 2013			
1:00 – 2:00 EDT	<i>Session B1</i>	<i>Session B2</i>	<i>Session B3</i>
<i>Concurrent Sessions (B)</i>	<b>1913 Flood Anniversary Outreach Campaign</b>	<b>ASFPM: State Mentoring Program</b>	<b>California Approaches: Flood Future Report and ARkStorm</b>
Break			
2:30 – 3:30 EDT	<i>Session C1</i>	<i>Session C2</i>	<i>Session C3</i>
<i>Concurrent Sessions (C)</i>	<b>Helping communities understand and act on their risks: Tailoring Risk Communication for the Situation</b>	<b>NAFSMA: WRDA Status Report and Update on Flood Risk Management Provisions from the Non-Federal Perspective</b>	<b>Collaboratively Assessing, Managing, and Reducing Risk from Flood-Related Special Hazards</b>
Break			
4:00 – 5:00 EDT	<i>Session D1</i>	<i>Session D2</i>	<i>Session D3</i>
<i>Concurrent Sessions (D)</i>	<b>Communicating Flood Risk and Engaging Community Action</b>	<b>NHMA: Understanding &amp; Overcoming Impediments to Successful Flood Risk Management</b>	<b>Dam Safety Coordination in Flood Risk Management</b>

\* All sessions will be recorded. Session details are described on page 3.



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Thursday, August 22, 2013			
1:00 – 2:30 EDT	<i>Session E1</i>	<i>Session E2</i>	<i>Session E3</i>
<i>Concurrent Sessions (E)</i>	<b>Natural and Nature-Based Infrastructure for Flood Risk Management</b>	<b>Accomplishments through Silver Jackets Projects</b>	<b>Coastal Issues &amp; Climate Change</b>
Break			
3:00 – 5:00 EDT	<i>Closing Plenary: Biggert-Waters 2012;</i> <b>Closing Remarks; Awards; Additional Ongoing Resources</b> Speakers: Joe Cecil (FEMA)		

Friday, August 23, 2013			
11:00–12:30 EDT	<i>Session F1</i>	<i>Session F2</i>	<i>Session F3</i>
<i>Concurrent Sessions (F)</i>	Training: <b>Alternatives Analysis Under E.O. 11988</b>	Training: <b>Watershed Infrastructure System Decision Management Tool</b>	Hot Topic Discussion: <b>To Be Identified during Webinar Week</b>
Break			
1:00 – 2:30 EDT	<i>Session G1</i>	<i>Session G2</i>	<i>Session G3</i>
<i>Concurrent Sessions (G)</i>	Training: <b>Development of Floodplain Management Plans</b>	Training: <b>Dam Break Flood Simulation: Doing It Faster and Simpler</b>	Hot Topic Discussion: <b>To Be Identified during Webinar Week</b>
Break			
3:00 – 4:30 EDT	<i>Session H1</i>	<i>Session H2</i>	
<i>Concurrent Sessions (H)</i>	Training: <b>National Hydrologic Warning Council: Flood Warning Systems 101</b>	Hot Topic Discussion: <b>To Be Identified during Webinar Week</b>	



## 2013 Flood Risk Management - Silver Jackets Webinar Week

## **August 20 –22, 2013**

### *Draft Session Details as of July 10, 2013*

#### **Opening Plenary: Agency Coordination in Superstorm Sandy Recovery**

Tuesday, August 20, 1:00-3:00pm EDT

##### Speakers:

- Karen Durham-Aguilera, U.S. Army Corps of Engineers
- Roy Wright, Federal Emergency Management Agency
- Margaret Davidson, National Oceanic and Atmospheric Administration
- Dave Rosenblatt, New Jersey Department of Environmental Protection

##### Summary:

This session will focus on the response to and recovery from Superstorm Sandy. Three of the Federal agencies that have been involved will discuss their efforts, especially their partnership efforts with each other, other Federal agencies, and the State and local governments involved. The panelists will offer their thoughts on how the Hurricane Sandy Rebuilding Task Force and the National Disaster Recovery Framework (NDRF) has been implemented in this event, what lessons we have learned from the process, and how the NDRF will likely influence future recovery efforts. A state perspective on these topics will also be presented. The role of the National Mitigation Framework in future disasters will also be discussed.

#### **Session A1: Levee Safety Portfolio Risk Management and Accreditation Task Force**

Tuesday, August 20, 3:30-5:00pm EDT

##### Speakers:

- Jerry Skalak, Project Manager and Iowa Silver Jackets Coordinator, U.S. Army Corps of Engineers, Rock Island District
- Michael Bart, Chief, Engineering and Construction, U.S. Army Corps of Engineers, St. Paul District
- Tammy Conforti, Levee Safety Program Manager, U.S. Army Corps of Engineers, Headquarters

##### Summary:

This session will present 1) a case study in levee safety risk management (Muscatine Island Urban Levee System Study Breach Analysis), 2) an overview of the current USACE effort to cooperatively manage the risks associated with the Levee Safety Portfolio, and 3) an update on the Accreditation Task Force.

##### Muscatine Island Urban Levee System Study Breach Analysis

While the City of Muscatine is protected by a FEMA accredited flood protection project, breach scenarios afford the opportunity to manage residual risk and explore failure scenarios to inform emergency management planning, including evaluation of evacuation routes and information for evacuation planning and will serve as a readiness measure to reduce future life and safety risks involved with flood events. The issues addressed are focused on residual risk and public safety that are significant during the occurrence of flood events exceeding the capacity of the levee system, which includes floods that may result in overtopping or floods that may result in system failure prior to overtopping. The

elements to be addressed are: probability of capacity exceedance; consequence of capacity exceedance; and emergency plans to ensure public safety in the event of a flood that exceeds the levee system capacity.

USACE and FEMA have long coordinated to identify efficiencies and synergies between the USACE Levee Safety Program and FEMA's programs, including the NFIP. The two agencies are sharing information, developing common messages and coordinating on agency specific policies. A joint USACE and FEMA Flood Protection Structure Accreditation Task Force is currently meeting to develop a process to better align the information and data collected by and for USACE with the flood protection structure accreditation requirements of the NFIP. Congress has charged this Task Force to develop processes by which: 1) information and data collected for either purpose can be used interchangeably; and 2) information and data collected by or for the USACE is sufficient to satisfy NFIP flood protection structure accreditation requirements. The Task Force is undertaking these challenges with the assumption that changes to USACE and FEMA administrative processes to achieve alignment (processes that do not require a change in authority) should still fulfill the purposes of each agency's activities, be beneficial to both USACE and FEMA, and be the most effective way to meet the Task Force's objectives with minimal impacts.

## **Session A2: Improving Flood Inundation Mapping Through Interagency Efforts**

Tuesday, August 20, 3:30-5:00pm EDT

### Speakers:

- Marie Peppler, U.S. Geological Survey
- Kris Landers, NOAA National Weather Service
- Jason Sheeley, U.S. Army Corps of Engineers
- Stephen T. Benedict, U.S. Geological Survey

### Summary:

Flood inundation maps that are tied to U. S. Geological Survey (USGS) real-time streamflow gaging station data and National Weather Service (NWS) flood forecast sites enable officials to make timely operational and public safety decisions during floods. Because floods are the leading cause of natural-disaster losses, the USGS, NWS, and the U.S. Army Corps of Engineers (USACE) have developed a partner-based flood inundation mapping process and guidelines to encourage consistent data-collection, model development, and display methods and a common appearance and functionality for flood inundation map products. The goal is to improve the communication of flooding hazards with consistent, understandable flood-inundation maps and to partner with Federal, state, and local agencies and the private sector to develop maps for individual communities. This presentation will be made by the Integrated Water Resources Science and Services Flood Inundation Mapping Requirements Team and will focus on the proposed interagency processes.

The U.S. Geological Survey (USGS), in cooperation with the U.S. Army Corps of Engineers, National Weather Service (NWS), and the South Carolina Departments of Natural Resources and Transportation, developed digital flood-inundation maps for a 3.95-mile reach of the Saluda River from approximately the Old Easley Bridge Road to the Saluda Lake Dam near Greenville, South Carolina. The flood-inundation maps depict estimates of the areal extent and depth of flooding corresponding to selected water levels (stages) at the USGS streamflow gaging station at Saluda River near Greenville, South Carolina (Station 02162500). Station 02162500 also functions as a NWS forecast point for this reach of the Saluda River. The flood-inundation maps developed in this investigation, along with real-time stage data from Station

02162500 and forecasted stream stages from the NWS, can provide emergency management personnel and residents with information that is critical during flood-response and flood-recovery activities, such as evacuations, road closures, and disaster declarations. An overview of this investigation and its resulting products will be provided in this presentation.

### **Session A3: Nonstructural Alternative Projects**

Tuesday, August 20, 3:30-5:00pm EDT

Speaker: Randy Behm, Chief, Flood Risk and Floodplain Management Section, Hydrologic Engineering Branch - Omaha District, U.S. Army Corps of Engineers

#### Summary:

This overview of nonstructural flood proofing techniques by the National Nonstructural Flood Proofing Committee will introduce the audience to alternative measures of flood risk and flood damage reduction. A variety of techniques, such as elevation (on fill, on extended foundation walls, or piers, posts, and columns), wet flood proofing, dry flood proofing, relocation, acquisition, and nonstructural berms and floodwalls will be presented. This webinar will illustrate the general requirements for data collection, what to consider during plan formulation, and options for developing an economic analysis to determine net benefits and a benefit to cost ratio for individual structures or an entire study area. In addition, this presentation discusses the nonstructural planning requirements for non-Federal partners in pursuit of potentially feasible nonstructural flood risk reduction measures which could lead to implementation and a reduction in damages during future flood events.

### **Session B1: 1913 Flood Anniversary Outreach Campaign**

Wednesday, August 21, 1:00 – 2:00pm EDT

Speaker: Sarah Jamison, Hydrologist, National Weather Service

#### Summary:

March of 2013 marked the 100<sup>th</sup> anniversary of the largest weather disaster to strike Ohio and Indiana, the Great Flood of 1913. The Silver Jacket teams of Ohio and Indiana worked independently and collectively on a number of outreach events commemorating the centennial of the flood. The goal of the outreach campaigns were to discuss the flood, raise flood awareness, and promote the Silver Jackets. An evaluation of this campaign emphasizes the effectiveness of multi-agencies working together to promote a common theme. The success demonstrated by these efforts can be easily adapted by other state teams interested in commemorating their regions significant flood events.

### **Session B2: ASFPM: State Mentoring Program**

Wednesday, August 21, 1:00-2:00pm EDT

Speaker: Chad Berginnis, Executive Director, Association of State Floodplain Managers

#### Summary:

ASFPM is developing a program for building and maintaining state capability in floodplain management. We are experiencing unprecedented loss of institutional knowledge in the states as our first generation of floodplain managers retires. The state mentoring program is premised on ASFPM's effective state program document and the new program is taking a mentoring based approach to learning and training.

It is anticipated that this will be valuable for state floodplain managers, their staff and state mitigation offices.

**Session B3: California Approaches: Flood Future Report and ARkStorm**

Wednesday, August 21, 1:00-2:00pm EDT

Speakers:

- Mike Mierzwa, California Department of Water Resources
- Hunter Merritt, U.S. Army Corps of Engineers, Sacramento District
- Dale Cox, Regional Hazards Coordinator, U.S. Geological Survey
- Donna Schiffer, U.S. Geological Survey

Summary:

This session will present two recent California initiatives, the Flood Future Report and ARkStorm.

The California Department of Water Resources and the U.S. Army Corps of Engineers collaborated to develop California's Flood Future, a report (released in public draft in April and anticipated in final form later in 2013) that contains the first comprehensive look at flooding throughout the state, and presents recommendations to improve flood management in California. Research used to develop the report included information solicited from local, state, and federal agencies throughout California. More than 140 public agencies responsible for flood management provided information used to describe the problem and develop recommended solutions. The webinar will explain the findings and recommendations of the report, describe the challenges and success of the collaboration between USACE and DWR, examine the actions of the rollout phase, and facilitate discussion for improvement. For more information visit: <http://www.water.ca.gov/sfmp/>

In 2010, The United States Geological Survey (USGS) published a large-scale hazard preparedness scenario called ARkStorm, to address massive U.S. West Coast storms analogous to those that devastated California in 1861-62. Storms of this magnitude and larger are evident in the geologic record and are projected to become more frequent and furious as a result of climate change. To address these extreme events, the ARkStorm scenario project brought together hundreds of scientists and experts to examine in detail the probability, cost, and consequences of the floods, winds, landslides, coastal erosion and inundation associated with massive storms. The ARkStorm scenario has been used in community emergency response exercises and is the basis of California's Northern California Catastrophic Flood Plan (now being constructed).

**Session C1: Helping communities understand and act on their risks: Tailoring Risk Communication for the Situation**

August 21, 2013, 2:30 – 3:30 pm EDT

Speakers:

- Stacy Langsdale, Civil Engineer, USACE Institute for Water Resources
- Bill Malyszka, Senior Manager, Accenture Federal Services

Summary:

Most training in Risk Communication focuses on communication during a crisis; however, in flood risk management there is an important role for communicating risk in the absence of a disaster as well, to

increase awareness, and encourage action to reduce risk, including responsible development decisions. In this session, Dr. Langsdale will describe the various contexts in which risk communication occurs and how we tailor risk communication efforts appropriately. She will also describe some of the subjective elements of risk that influence risk acceptability. Then, Mr. Malyszka will review lessons learned from FEMA's national study of communities. Through interviews of best practice communities, the team identified characteristics of communities who proactively mitigate their risk. Mr. Malyszka will present contrasting examples from communities in different contexts.

### **Session C2: NAFSMA: WRDA Status Report and Update on Flood Risk Management Provisions from the Non-Federal Perspective**

Wednesday, August 21, 2:30-3:30pm EDT

#### Speakers:

- Dusty Williams, General Manager/Chief Engineer, Riverside County Flood Control and Water Conservation District
- Steve Fitzgerald, Chief Engineer, Harris County Flood Control District
- Stephen Graham, Assistant General Manager, San Antonio River Authority
- Vincent Gin, County of Orange

#### Summary:

This webinar session will provide an update on the status of congressional action on the Water Resources Development Act of 2013, which authorizes programs, projects and policies for the U.S. Army Corps of Engineers water resources activities, and discuss how various provisions in the bill will affect flood risk management programs and activities at the local, regional and state levels. The Senate has already approved its version of the legislation and the House is expected to begin action on its version of the bill soon.

### **Session C3: Collaboratively Assessing, Managing, and Reducing Risk from Flood-Related Special Hazards**

Wednesday, August 21, 2:30-3:30pm EDT

#### Speakers:

- Stephen Scissons, U.S. Army Corps of Engineers, Albuquerque District
- Bill Borthwick, New Mexico Department of Homeland Security Emergency Management, Preparedness Bureau
- Ryan McDaniel, Idaho Department of Water Resources
- Missy Harris, Idaho Department of Water Resources

#### Summary:

When thinking about flood risk management, there are a number of "special hazards" that may influence the flood risk and need to be considered. Two important hazards are alluvial fans and fires. This session will describe a few methods in understanding the additional flood hazards raised by alluvial fans and fires, as well as methods regarding respond, recovery, and mitigation following these disaster events. In particular, the session will focus on how state Silver Jackets interagency teams can work

together to assist in the lifecycle management of these hazards. The session will also explore the inter-related nature of these and other hazardous events and how to manage the full lifecycle of disasters.

### **Session D1: Communicating Flood Risk and Engaging Community Action**

Wednesday, August 21, 4:00-5:00pm EDT

Speakers:

- Bruce Bender, Bender Consulting Services, Inc.
- Kamer Davis, Federal Emergency Management Agency Contractor

Summary:

Flooding is a national peril. Soaking rains and tidal surges batter the coasts. Wildfires lead to damaging mudflows in the West. Spring rains and snowmelt bring inundation and overtopped levees in the Northeast and Midwest. It takes a well-prepared and highly informed public to successfully weather the storm. FloodSmart combines a national outreach campaign for the National Flood Insurance Program with shareable tools for use in educating the public on how to prepare for flooding, learn their flood risk, and purchase flood insurance.

In developing its online tools and resources, FloodSmart has learned a number of valuable lessons on the best ways to engage the public. We will share the lessons we've learned and demonstrate our online resources so you can see how to share and use them in conjunction with your own outreach efforts. The session will also address questions such as: When is the best time to talk about being prepared for the next flood? How do you make risk personally relevant? How do you engage other stakeholders in communicating flood risk? How do you sustain involvement?

As a result of this presentation you will gain new insights about communicating the risks and consequences of flooding, and be able to take advantage of a wealth of online, video and other resources available at no charge from FloodSmart.

### **Session D2: NHMA: Understanding & Overcoming Impediments to Successful Flood Risk Management**

Wednesday, August 21, 4:00-5:00pm EDT

Speaker: Edward Thomas Esq, President, Natural Hazard Mitigation Association

Summary:

We as a society need to encourage the "Whole Community" - citizens, local government, developers, and state government - to design and build to much higher standards to protect against multiple forms of natural hazards, most especially floods, our nation's most costly hazard. This will require an approach to multiple parties, talking to them in lingo they understand about things about which they are concerned. To do this job of negotiating our way towards a safer more sustainable future, we need to understand the impediments and know how to overcome those impediments through thoughtful approaches, most especially learning from other people and communities who have successfully implemented higher standards to promote a safer future which takes into account foreseeable natural processes such as floods.

### **Session D3: Dam Safety Coordination in Flood Risk Management**

Wednesday, August 21, 4:00-5:00pm EDT

Speakers:

- Lori Spragens, Association of State Dam Safety Officers
- Mark Ogden, Association of State Dam Safety Officers
- Jason Campbell, Illinois Department of Natural Resources
- D. Thomas Woosley, Georgia Safe Dams Program
- Kenneth Smith, Indiana Department of Natural Resources

Summary:

The Association of State Dam Safety Officials (ASDSO) represents the 50 state dam safety programs. Dams provide many benefits such as water supply, power generation, flood risk reduction, and recreation and all Americans share in these benefits. ASDSO believes that everyone has a role to play in making sure that dams are safe and this session will help to explain those roles and explore potential areas of coordination with other areas of flood risk management. The first part of the session will be a brief presentation on dams, how state dam safety programs work, and how state programs can coordinate with other flood risk management areas. The session will then highlight some outreach efforts by state dam safety programs including state efforts to train real estate agents, efforts to hold meetings with dam owners and local planning and emergency management officials, and several other public outreach examples. Finally, the session will describe areas where the dam safety community sees a need for further coordination and assistance from the flood risk management community such as development of emergency action plans.

### **Session E1: Natural and Nature-Based Infrastructure and Flood Risk Management**

Thursday, August 22, 1:00-2:30pm EDT

Speakers:

- Lisa Hair, U.S. Environmental Protection Agency
- Dan Medina, AtkinsGlobal
- Roger Lindsey, Nashville Metro Water Services
- Tom Palko, Nashville Metro Water Services
- Paul Wagner, U.S. Army Corps of Engineers Institute for Water Resources

Summary:

This session will highlight the potential use of green infrastructure to assist in reducing and managing flood risk. An overview of different GI techniques that have been found to be beneficial in riverine and coastal environments will be provided, along with examples of how green infrastructure has been applied in flood risk management planning. The importance of using GI techniques will be stressed through discussion of a recent study assessing the benefits of GI under future flood conditions, and existing Federal information resources to encourage use of GI techniques will be highlighted in closing.

### **Session E2: Accomplishments through Silver Jackets Projects**

Thursday, August 22, 1:00-2:30pm EDT

Speakers:

- Sara Brown, Hydraulic Engineer, U.S. Army Corps of Engineers, Charleston District
- Mark Stephensen, Idaho Bureau of Homeland Security

- Jason Smith, Study Manager/Civil Engineer, U.S. Army Corps of Engineers, Rock Island District

Summary:

Recognizing the potential in collaborative approaches, the U.S. Army Corps of Engineers has provided \$3.4m since September 2011 to fund 38 Silver Jackets interagency projects in 25 states addressing a variety of state priorities. This session highlights three of those projects and the specific accomplishments they achieved. In **South Carolina**, the Corps partnered with the state's Office of Ocean and Coastal Resource Management to determine the extent and potential drivers of historical shoreline change along estuaries and embayments in order to assist with local and state planning efforts. An analysis using AMBUR identified specific erosion rates, as well as six factors likely to drive shoreline erosion in the area studied. The presentation will overview the methodology used and results obtained, and will describe potential applications and how the project has affected state and regional efforts for determining shoreline vulnerability and management policies. In **Idaho**, the Silver Jackets team conducted a deliberate collaborative effort in an atmosphere of contention, political posturing, and distrust to develop a shared vision and action plan for the Coeur d'Alene watershed. The area has been the focal point of hundreds of millions of dollars of Superfund remediation, flood control planning, and complex interagency relationships. A viable local working group was created and will continue beyond the project. The presentation will address the importance of collective action and shared responsibility, offer lessons learned, and provide assurance that even long-term difficult problems can be resolved when committed partners come to mutually beneficial and meaningful solutions. In **Iowa**, the Silver Jackets team established a central location for viewing agencies' information to support risk informed decision making and mitigation planning activities. Floodplain regulations and other ordinances are voluntary, so little is known about the extent of flood risk for communities not participating in the National Flood Insurance Program. The Corps assembled agencies' data and information, contacting hundreds of local communities to fill gaps, and created a georeferenced database for the Iowa-Cedar Watershed. The team then quantified flood risk in the watershed using FEMA's HAZUS program, showing that some of the smallest communities have the greatest per capita flood risk. Results were compared with NRCS geomorphic floodplain delineations and traditional Corps flood risk management approaches.

**Session E3: Coastal Issues & Climate Change**

Thursday, August 22, 1:00-2:30pm EDT

Speakers:

- Kate White, U.S. Army Corps of Engineers
- Zach Ferdana, The Nature Conservancy
- Mark Crowell, Federal Emergency Management Agency

Summary:

This session will focus on the latest information and tools available to coastal communities on addressing climate change issues and promoting coastal resiliency. As climate change becomes more of a reality, coastal regions need applications and methods to assist in the management of these impacts now and into the future. This session will provide an overview and information on FEMA's recently released report, "The Impact of Climate Change and Population Growth on the National Flood Insurance Program through 2100." USACE will discuss the interagency Sea Level Rise Planning Tool for Sandy affected areas and the Sea Level Change Calculator for the broader US coastline. The Nature

Conservancy will provide information on their coastal resilience efforts in the US and globally, particularly the new Coastal Resilience Platform which will bring multiple disciplines, data and stakeholders together across different spatial and temporal scales to facilitate informed decisions and adaptive planning.

**Closing Plenary: Biggert Waters 2012; Closing Remarks; Awards: Additional Ongoing Resources**

Thursday, August 22, 3:00-5:00pm EDT

Speaker: Joe Cecil, Underwriting Branch, Federal Insurance and Mitigation Administration, Federal Emergency Management Agency

Summary:

From this session, participants will gain a high-level understanding of the impacts of the Biggert-Waters Flood Insurance Reform Act of 2012 to the NFIP. Participants will also be introduced to the distinction between subsidized premium rates and grandfather procedures, and the different mechanisms to phase each one out. The session will also introduce participants to other changes in the NFIP scheduled for October 1, 2013. Finally, the session will provide participants with an appreciation for how CRS remains an important way to address the affordability of flood insurance as subsidies and grandfathering are phased out over time.

**Session F1: Alternatives Analysis Under E.O. 11988**

Friday, August 23, 11:00am-12:30pm EDT

Speaker: Kim Gavigan, Civil Engineer, LA District, U.S. Army Corps of Engineers

Summary:

Executive Order (EO) 11988—Floodplain Management was signed by President Carter in 1977. EO 11988 requires federal agencies to avoid to the extent possible the long and short-term adverse impacts associated with the occupancy and modification of floodplains and to avoid direct and indirect support of floodplain development wherever there is a practicable alternative. The presentation will cover the history and intent of EO 11988 as well as alternatives analysis under the EO.

**Session F2: Training: Watershed Infrastructure System Decision Management Tool**

Friday, August 23, 11:00-12:30 EDT

*\*Speakers: TBD*

Summary:

Various efforts have been undertaken that help characterize at a national scale flood hazards and exposures, the effect of flood risk reduction infrastructure, likely impacts now and in the future, and possible implications. Taken together and with continuing development, these efforts begin to paint a multi-faceted picture of national flood risk. This session will highlight some of the information currently available, what we do and don't know about flood risk nationally, and what effect we have had on flood risk. The session will also introduce developing tools for integrating and visualizing the hazards and exposures associated with a national picture of flood risk, such as the Water Infrastructure System Data Manager (WISDM) under continuing development within the Corps of Engineers.

**Session G1: Development of Floodplain Management Plans**

Friday, August 23, 1:00-2:30pm EDT

Speaker: Brian Rast, Senior Planner and Project Manager, Silver Jackets Lead Coordinator KS and MO – Kansas City District, U.S. Army Corps of Engineers

Summary:

This webinar will introduce the concept, regulatory requirements, and implementation of Floodplain Management Plans for USACE Civil Works projects. The presenter, from the National Nonstructural Flood Proofing Committee, will discuss the practicality of Floodplain Management Plans, their use in assisting project sponsors in reducing their primary flood risk, their use in protecting the integrity of the Federal project, potential benefits from partnering with other Federal agencies, and benefits from plan implementation in addressing residual flood risk. This webinar will also illustrate potential methodologies in the development of a Floodplain Management Plan.

**Session G2: Dam Break Flood Simulation: Doing It Faster and Simpler**

Friday, August 23, 1:00-2:30pm EDT

Speakers:

- Yazmin Seda-Sanabria, National Program Manager of the Critical Infrastructure Protection and Resilience Program of the U.S. Army Corps of Engineers, Headquarters, Office of Homeland Security
- Mustafa Altinakar, National Center for Computational Hydroscience and Engineering, University of Mississippi
- Marcus McGrath, National Center for Computational Hydroscience and Engineering, University of Mississippi
- Strati Oktay, Protection Operations Specialist, Battelle Memorial Institute

Summary:

The Decision Support System for Water Infrastructure Security (DSS-WISE™) is an integrated software package for two-dimensional dam and levee break flood simulation, inundation mapping and consequence analysis. DSS-WISE™ was developed by the National Center for Computational Hydroscience and Engineering at the University of Mississippi (UM-NCCHE). This effort was funded by the U.S. Department of Homeland Security (DHS) Science and Technology Directorate through the Southeast Region Research Initiative (SERRI) program managed by the Oak Ridge National Laboratory (ORNL). Through a joint effort between UM-NCCHE and DHS, a special version of the DSS-WISE™ software (DSS-WISE™ “Lite”) is now available for performing first-tier dam-break simulation mapping automatically using a user friendly graphical user interface implemented in the Dams Sector Analysis Tool (DSAT). DSAT is a web-based platform jointly developed by the DHS National Protection and Programs Directorate, Office of Infrastructure Protection, and the U.S. Army Corps of Engineers (USACE), Headquarters, Office of Homeland Security. DSAT provides Dams Sector partners with secure access to a series of modules and applications covering a wide range of analytical capabilities. DSAT contains a powerful web-based viewer with user-specific access that supports geospatial mapping, visualization, and analytical functions. In addition, the DSAT Viewer provides access to pre-processing capabilities to support dam-break flood simulations using DSS-WISE™ Lite. The purpose of this workshop is to provide participants with the working principles behind the DSS-WISE™ model, to discuss the implementation of

DSS-WISE™ Lite as part of the DSAT web-based platform, and to provide workshop attendees hands-on experience using the suite of software tools.

**Session H1: National Hydrologic Warning Council: Flood Warning Systems 101**

Friday, August 23, 2013, 3:00 – 4:30 EDT

Speakers:

- David C. Curtis, Ph.D., President of the National Hydrologic Warning Council Vice-President, Northern CA, WEST Consultants Folsom, California
- Steve Fitzgerald, P.E., Chief Engineer, Harris County Flood Control District (HCFCD), Houston, Texas.
- Andrew M. Rooke, P.E., MLE, CFM, Secretary of the National Hydrologic Warning Council Owner, AMR Consults, LLC, Austin, Texas.
- Kevin G. Stewart, P.E. , Manager, Information Services and Flood Warning Program Urban Drainage and Flood Control District

Summary:

Flood warning systems protect lives and property by providing early detection and communication of floods. Join the webinar to hear the answers to questions like: What is required for a flood warning system; who do you involve to implement it; what types of systems are available; and, what are the implementation, operation, and maintenance costs?