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Technical Support for Coastal Resiliency

June 3-4, 2014

Old Dominion University Ted Constant Center
Blue Room

Conference Focus

To investigate the technical capabilities required to increase coastal resiliency • Announcement of a sea level rise pilot project for Hampton Roads • A combined government-industry approach for mitigating and adapting to sea level rise

Rationale for Conference

Sea level rise is causing increased flooding along much of our coastline. To adapt to this, engineers and decision-makers need many types of information. This conference focuses on the technical capabilities required to produce the needed information.

Who Should Attend

- Technical experts in observation techniques for measuring coastal flooding and coastal resiliency
- Decision-makers and engineers dependent on those observations to help formulate a strategy for addressing the impacts of sea level rise

Desired Outcome

Document the sense of the conference - covering the stakeholder requirements, the research needed, and the emerging tools soon to be available to address sea level rise and increase coastal resiliency - as a summary report. Potentially, this documentation will support the creation of a regional task force to address sea level rise.

Tuesday, June 3

0730-0830 Registration and Exhibit Setup

0830-0850 Conference Goals and Introductions

Ray Toll, Chair-MTS Hampton Roads Section and Navy Liaison-Old Dominion University
Dr. Hans-Peter Plag, Director, Mitigation and Adaptation Research Institute, Old Dominion University

0850-0900 Welcome

John Broderick, President, Old Dominion University

0900-1200 Hampton Roads "Whole of Government" Plus Industry Sea Level Rise Pilot Project Announcement

Eric Letvin, White House National Security Staff
CDR John Marburger, Navy Task Force Climate Change

Hampton Roads Pilot Project - Leadership Team Panel

Moderator: VADM David Architzel (ret.), Director of Military Affairs, Old Dominion University

Federal: RADM Dixon Smith, Commander, Navy Region, Mid-Atlantic
COL Paul Olsen, Commander, Norfolk District, U.S. Army Corps of Engineers

State: Evan Feinman, Deputy Secretary of Natural Resources, Commonwealth of Virginia

Regional: Dwight Farmer, Executive Director, Hampton Roads Planning District Commission

City: James Redick, Director, Office of Emergency Preparedness and Response, City of Norfolk

Industry: Robert Fallon, Director, Facilities/Waterfront Support, Newport News Shipyard Building, Huntington Ingalls Industries

1200-1300 Lunch/Keynote Address

Dr. Russell Callender - Deputy Director, National Oceanic and Atmospheric Administration/National Ocean Service

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Tuesday, June 3 - continued

- 1300-1700 Technical Session: Integrated Observations. Each 20-minute session is followed by a 5-minute Q&A.**
- 1300-1320** Water Level Observing Technologies Overview
Sutron Corporation representative
- 1325-1345** Tracking Sea Level Rise and Coastal Inundation
Dr. William Sweet, National Ocean Service/Center for Operational Oceanographic Products and Services
- 1350-1410** NOAA's Storm Surge Roadmap and Storm Surge Modeling Portfolio
Dr. Jesse Feyen, Coastal Survey Development Laboratory
- 1415-1435** Impacts of Sea Level Change and Vertical Land Movement on Tidal Datums
Stephen Gill, National Ocean Service/Center for Operational Oceanographic Products and Services
- 1440-1510 Break and Exhibits**
- 1510-1530** Using Continuous GPS Observations to Observe Land Subsidence
Dr. Hans-Peter Plag, Old Dominion University Climate Change and Sea Level Rise Initiative
- 1535-1555** Microwave Water Level Sensors
Robert Heitsenrether, National Ocean Service/Center for Operational Oceanographic Products and Services
- 1600-1620** Virginia Beach Project to Install Eleven Water Level Gauges
Jeffrey Waller, PE, Project Manager, Virginia Beach Public Works/Engineering/Water Resources
Dr. Seshadri Iyer, PE, Senior Water Resources Engineer, URS Corporation
- 1625-1645** Why are Sea Level Rise and Flooding Accelerating along the U.S. East Coast?
Dr. Tal Ezer, Old Dominion University Department of Ocean, Earth, and Atmospheric Sciences and Mitigation and Adaptation Research Institute
- 1750-1700 Closing Remarks of the Day**
- 1900-2100 Social at Nauticus**

Wednesday, June 4

- 0730-0830 Breakfast and Exhibits**
- 0830-0840 Welcome**
Dr. Carol Simpson, Provost, Old Dominion University
- 0840-0905** Data Integration
Dr. Richard Spinrad, Vice President for Research, Oregon State University and prospective Chief Scientist, National Oceanic and Atmospheric Administration
- Technical Session Resumes**
- 0910-0930** Sea Level Rise Vulnerabilities at Navy Installations in Norfolk and Worldwide
Dr. Kelly Burks-Copes, U.S. Army Corps of Engineers Research and Development Center, Vicksburg, Mississippi
- 0935-0955** Norfolk Project to Install Four Water Level Stations
James Redick, Director, Office of Emergency Preparedness and Response, City of Norfolk
- 1000-1020** Water Level Observations and Partnerships toward Coastal Resiliency
Richard Edwing, Director, National Ocean Service/Center for Operational Oceanographic Products and Services
- 1025-1100 Break and Exhibits**
- 1100-1120** A New Coastal Flood Exposure Web Tool from Climate Central
Dan Rizza, Climate Central
- 1125-1145** U.S. Geological Survey Tide and Storm Surge Monitoring in Response to Hurricane Sandy
Mark Bennett, Director, U.S. Geological Survey/Virginia Water Science Center
- 1150-1300 Boxed Lunch**
Remarks - Dr. Gerhard Kuska, Executive Director, Mid-Atlantic Regional Association Coastal Ocean Observing System
- Technical Session Resumes**
- 1300-1320** Leveraging LIDAR: The Critical Importance of Positional Accuracy
George McLeod, Lead GIS Engineer, Adjunct Faculty, and Ph.D. Candidate in Oceanography, Old Dominion University
- 1325-1345** Possibilities of Adding Water Level Sensors to the WeatherFlow Observing Site
Jay Titlow, Senior Meteorologist, WeatherFlow
- 1350-1410** Data Communications Advances
Mark Bushnell, President, CoastalObsTechServices, LLC
- 1415-1445** Compilation of Actions: What Achievements Will Be Presented at the 2016 Technical Support for Coastal Resiliency TechSurge?
- 1445-1500 Closing Remarks/Adjourn**