

Foresight Future Flooding - UK-US Workshop

Tuesday, 16 September 2008

- 9 am Site visit Washington, D.C. Flood Control Project
(UK and US Corps Teams)
Leave from Embassy Suites, Old Town
- 1 pm Flood Foresight Mission
(UK and US Corps teams only)
- Location: Embassy Suites, Old Town
- 1:00 Introduction of UK and US Corps Teams
Colin Thorne, Jack Davis
- 1:30 Review of Mission Aims, Objectives and Program
Colin Thorne and Pete Rabbon
- 1:45 Foresight Review and Update
Colin Thorne
- 2:00 Q and A session
- 2:30 Break out for technical discussions between UK Technical Specialists and US counterparts
- 3:30 Technical teams report back on their initial discussions
- 4:00 Close of Workshop Day 1
- 5:30 pm Reception at British Embassy (by separate invitation)**
5:45 pm Welcome by Deputy Ambassador, Dominick Chilcott

Wednesday, 17 September

**Location: National Academy of Public Administration
900 7th St. , Suite 600 Washington, D.C.**

- 9 am Flood Foresight Workshop –(All Participants)**
- 9:00 Introduction to Workshop, Introduction of Participants
Pete Rabbon and Colin Thorne
- 9:15 UK Foresight – A Living Programme
Jon Parke
- 9: 30 Foresight project on Flooding and Coastal Defence 2004
Colin Thorne

- 10:00 Welcome and Opening Remarks
Major General Don T. Riley (Director of Civil Works U.S. Army Corps of Engineers)
- 10:15 Welcome and Opening Remarks
Professor John Beddington - Chief Scientific Advisor to Her Majesty's Government
- 10:30 How we worked with the Key Stakeholders
Edward Evans
- 10:45 Q and A session
- 11:00 Break
- 11:15 Key Messages for Policy Makers and Elected Officials
Edward Evans
- 11:30 Uptake of the Foresight on Flooding Messages: Four years On
Jon Parke
- 11:55 Q&A
- 12:10 Lunch
- 13:15 Future Scenarios for Climate Change and Sea Level Rise
Nick Reynard and Robert Nicholls
- 13:45 Open discussion
- 14:00 Future Scenarios for Socioeconomic development
Edmund Penning-Rowsell
- 14:25 Open discussion
- 14:35 Broad Scale Modeling
Jon Wicks
- 14:50 Open Discussion
- 15:00 Break
- 15:15 Qualitative Analysis and Ranking of Flood Risk Drivers and Responses
Jonathan Simm
- 15:45 Open discussion
- 16:00 Quantitative Analysis and Modeling of Future Risks

Jim Hall and Paul Sayers

16:30 Open discussion

16:45 Sustainability
Colin Thorne

17:00 Adjourn

Thursday, 18 September

**Location: National Academy of Public Administration
900 7th St. , Suite 600 Washington, D.C.**

9 am Flood Foresight Workshop –(All Participants)

9:00 Introduction to the Day
Colin Thorne, Pete Rabbon

9:10 U.S. National Flood Risk Policy
Pete Rabbon

9:40 Q & A session

10:10 Governance
Edmund Penning-Rowsell

10:25 Q&A

10:40 Break

11:00 Governance — Federal, State and Local
Susan Gilson, NAFSMA

11:20 Floodplain Management 2050
Doug Plasencia, ASFPM

11:40 Q & A session

12:00 Lunch

13:30 Panel discussion: Potential for a Foresight Future Flooding Project in the USA
Ed Hecker, Doug Lamont, ASA

14:15 Workshop wrap up and concluding remarks
Pete Rabbon and Colin Thorne

14:30 Close of Workshop (Non-Corps/UK Team participants depart)
Break for UK and Corps Teams

14:45 Charge for Break-out Sessions and Introduction to Scoping Document
Pete Rabbon, Edward Evans, Colin Thorne

15:00 Technical Break-out Sessions: Translating the Foresight Future Flooding
Project UK for use in the USA

16:15 Break-out Groups report back

17:00 Adjourn

Friday, 19 September

**Location: National Academy of Public Administration
900 7th St. , Suite 600 Washington, D.C.**

**9 am Production of Flood Foresight Scoping Document (Corps/UK Teams plus
USCAE Leadership for last hour)**

9:00 Outline and content of scoping document
Pete Rabbon and Edward Evans

9:30 Break-out Groups work up their contributions by technical area

10:45 Break

11:00 Break-out Groups report back

12:00 Lunch

13:00 Presentation to USACE Leadership
Core Team Leaders

Foresight – UK Technical Contacts

Bradley Keelor, Embassy, D.C.
Kerry Norton, Embassy, Atlanta

Sir John Beddington

Mark Bibby
Jon Parke
Alan Monks

Prof Colin Thorne
Prof Edward Evans
Prof Jim Hall
Eur Ing Paul Sayers
Prof Edmund Penning-Rowsell
Dr Nick Reynard
Prof Robert Nicholls
Jonathan Simm
Dr Suresh Surendran
Dr Jon Wicks

Foresight – USACE Technical Contacts

Dr. Todd S. Bridges – Expert on Risk Analysis
Senior Scientist, Environmental Science
U.S. Army Engineer Research and Development Center
3909 Halls Ferry Rd.
Vicksburg, MS, 39180
USA
Tel: 601-634-3626
E-mail: todd.s.bridges@erdc.usace.army.mil

Todd Bridges is the U.S. Army's Senior Research Scientist for Environmental Science. His main areas of research activity at the ERDC concern the 1) development of risk and decision analysis methods applied to water resources infrastructure and environmental management and 2) science and engineering related to sediment management. Todd leads the team that is developing and implementing risk-informed decision making approaches for the Corps' two post-Katrina planning studies. Through his research activities and projects supporting several government and private sector organizations, Todd has led the development and application of quantitative risk analysis methods to a wide range of problems, including environmental cleanups, impacts of navigation infrastructure development on natural resources, and flood risk management. He recently chaired efforts by the International Maritime Organization of the UN to develop risk assessment guidance for CO2 sequestration operations in the ocean.

Tammy Conforti – USACE Levee Safety Program Manager

441 G Street, NW
Washington, DC 20314

Phone: 202-761-4649

Email: tammy.l.conforti@usace.army.mil

Ms. Tammy Conforti is the Levee Safety Program Manager for Headquarters US Army Corps of Engineers (HQUSACE). She has worked for USACE for 16 years in the areas of geotechnical engineering and flood damage reduction planning. For last two years, she has been focused on the development of the USACE National Flood Risk Management Program, specifically working on levee policy issues that cross federal agencies at the national level. Ms. Conforti has a bachelor's degree in civil engineering from Virginia Tech and is a registered professional engineer.

Bill Curtis –Flood & Coastal Storm Damage Reduction

Bill has over 16 years experience with the Corps as a research oceanographer, and has conducted and lead technical studies in support of coastal navigation and shore protection project design and performance assessment, and coastal wetland restoration. He presently manages the Flood and Coastal Storm Damage Reduction R&D Program, which supports the Corps' flood risk management mission including emergency management, coastal storm damage reduction and water supply.

Associate Technical Director
Coastal & Hydraulics Laboratory
US Army Engineering R&D Center
3909 Halls Ferry Rd
Vicksburg, MS 39180

Phone : 601-634-3040

Email : William.r.curtis@usace.army.mil

Dr. Jack E. Davis, P.E. – Flood & Coastal Storm Damage Reduction

Technical Director
Coastal & Hydraulics Laboratory
US Army Engineering R&D Center
3909 Halls Ferry Rd
Vicksburg, MS 39180

Phone : 601-634-3006

Cell : 601-831-0786

Email : jack.e.davis@us.army.mil

He oversees R&D activities in flood & coastal-storm risk management, emergency management, and water supply. He has worked in R&D for the USACE for 28 years. Experience includes reservoir water quality, design of river control structures, wind-wave generation and propagation, coastal wetland restoration engineering and protection, beneficial uses of dredged sediment, coastal sediment management, and design of shore protection structures. He was also coordinator and lead instructor for Coastal Engineering & Planning short courses.

Susan Durden,

Brian Harper

Jeff Harris – Hydrology and Hydraulics

Chief of Hydrology and Hydraulics Technology
Corps of Engineers, Hydrologic Engineering Center
Davis, California, USA

Tel: 530-756-1104

Fax: 530-756-8250

Email: david.j.harris@usace.army.mil

Jeff oversees the development of the Corps major one-dimensional hydrology and hydraulics software. HEC-HMS is a main Corps tool for rainfall-runoff modeling and HEC-RAS is the main Corps tool for hydraulic modeling. In addition, he also oversees the development of the GIS companion products, HEC-GeoHMS and HEC-GeoRAS. He spent the first 24 years of his Corps career doing hydrologic and hydraulic modeling, specializing in large system models, before moving to HEC and into management.

Dr. David Moser – Risk Analysis & Decision Making

USACE Chief Economist

Rolf Olsen, Climate Change

Institute for Water Resources
7701 Telegraph Road
Alexandria, VA 22315

Phone: 703-428-6314

Email: j.rolf.olsen@usace.army.mil

Rolf is a water resources systems engineer at the Corps of Engineers Institute for Water Resources in Alexandria, Virginia. He analyzes policy and planning issues for

Corps water resources management problems (such as climate change and drought management) through application of systems engineering approaches. He is currently leading a new project on Adaptations to Climate Change. He has conducted policy studies for the National Flood Risk Management Program and various studies on the impacts of climate change and variability on water resources. He has a PhD in systems engineering from the University of Virginia.

Pete Rabbon, Manager – USACE Flood Risk Management Program

Institute for Water Resources
7701 Telegraph Road
Alexandria, VA 22315

Phone: 202-761-4669
Email: peter.d.rabbon@us.army.mil

Pete Rabbon joined the Institute for Water Resources in May 2006 to manage the new USACE National Flood Risk Management Program.

Mr. Rabbon has over 30 years of professional engineering experience, with the last 20 years in the area of flood management for the State of California. In his most recent position, he served as General Manager of the California State Reclamation Board and Executive Officer of the California Water Commission. Previously, he has worked in private practice as well as in County and State government.

Mr. Rabbon is a practicing civil engineer registered in California, Nevada, and Oregon. He received his Bachelor of Science and Master of Science degrees from the University of California at Davis. He also is a licensed engineering and building contractor.

Edmond J. Russo, Jr., P.E. – Chief, Coastal Engineering Branch

Coastal and Hydraulics Laboratory
U.S. Army Engineer R&D Center
3909 Halls Ferry Road
Vicksburg, MS 39180
Tel (601) 634-2067
Cel (601) 618-4779
Fax (601) 634-3080
Email edmond.j.russo@erdc.usace.army.mil

Mr. Russo holds a MSCE in Civil Engineering from University of New Orleans, and is currently pursuing a PhD in Civil Engineering at Louisiana State University. As Chief, Coastal Engineering Branch, he oversees planning and execution of general coastal engineering research, studies, and investigations, including project planning

and design, performance monitoring and evaluation, geologic and geomorphic analyses, dredging and dredged material disposal problems, and functional performance evaluations of shore protection measures for developing improved design methods. Mr. Russo completed a special assignment as Technical Director during December 2005-December 2007 for the Louisiana Coastal Protection and Restoration (LACPR) Project, which was a \$20 million study exploring comprehensive coastwide alternatives addressing Louisiana hurricane flooding risks in connection with coastal landscape loss. Mr. Russo is currently Project Manager for a \$1,500,000 Fiscal Year 2009-2011 research project entitled “Risk Quantification for Sustaining Coastal Military Installation Assets and Mission Capabilities,” in a risk-based impact assessment of changing sea levels and coastal storms, which is funded by the Strategic Environmental Research and Development Program (SERDP).

Dr. Martin Schultz – Risk & Decision Making

Environmental Laboratory
Engineer Research and Development Center
US Army Corps of Engineers
3909 Halls Ferry Road
Vicksburg, MS 39180
Tel: (601) 634-4313
Fax: (601) 634-3120
E-mail: Martin.T.Schultz@usace.army.mil

Martin Schultz is an environmental engineer in the Environmental Processes and Engineering Division. His work addresses risk and decision problems in the areas of coastal and water resources management. In his current position, he is working to develop risk-informed decision frameworks for hurricane protection system planning in the Gulf Coast. He has also worked on adaptation to sea-level rise, uncertainty analysis of water quality models, evaluation of agricultural and urban water conservation programs, and economic evaluation of water rights. He holds an M.S. and Ph.D. in Engineering and Public Policy from Carnegie Mellon University.

Eric Thaut, Manager – Program Manager – USACE Flood Risk Management Planning Center of Expertise

South Pacific Division, U.S. Army Corps of Engineers
1455 Market Street
San Francisco, CA 94103-1398

Phone: 415.503.6852
Mobile: 415.297.6003
Email: eric.w.thaut@usace.army.mil

Eric Thaut is the Program Manager for the U.S. Army Corps of Engineers Flood Risk Management Planning Center of Expertise. The Center was established to develop, maintain and apply the best and most appropriate nationally available expertise,

science and engineering technology for conducting planning studies and the development of flood risk management projects. The Center operates as a virtual team, supported by the Great Lakes and Ohio River Division, Northwestern Division, Mississippi Valley Division, the Institute for Water Resources, the Hydrologic Engineering Center, the Engineer Research and Development Center, the HQUSACE Flood Damage Reduction Business Line, the Corps' National Non-Structural and Flood Proofing Committee and other supplemental virtual team members. Eric received a BS degree in Civil Engineering from the University of Washington in 1994 and has worked as a water resources planner on flood damage reduction, ecosystem restoration, storm damage reduction, navigation, and multi-purpose projects.

Joseph Vietri, Chief Planning and Policy

North Atlantic Division U.S. Army Corps of Engineers
Director, USACOE Planning Center of Expertise for Coastal &
Storm Damage

Phone 718.765.7070
Mobile 917.613.3873
E mail joseph.r.vietri@usace.army.mil

Joe Vietri is a Coastal Engineer and serves as the Chief of Planning for the North Atlantic Division of the US Army Corps of Engineers and the Director of the Corps of Engineers Planning Center of Expertise for Coastal and Storm Damage where he supervises a diversified group of Engineers and Scientists. He and his team are currently responsible for Independent Technical review and External Peer Review for all Coastal studies and projects. Current efforts include Task Force Hope, Coastal Mississippi and Louisiana Coastal Protection as well as large number of studies Nationwide.

Dr. Kate White, PE - USACE Actions For Change Comprehensive Systems Approach

Cold Regions Research & Engineering Laboratory
US Army Engineer R&D Center
Hanover, New Hampshire

Phone: 603-646-4187
E-mail: Kathleen.D.White@usace.army.mil

Kate White is a Civil Engineer with over 20 years experience in the USACE. She is lead of the Actions for Change Theme 1: Comprehensive Systems Approach, and is charged with effecting fundamental change in the USACE by developing and implementing an integrated, comprehensive and systems based approach in the execution of all its mission areas. This change incorporates anticipatory and adaptive

management to remain adaptable and sustainable over time, placing the highest priority on protection of public health and safety, consistent with the USACE Environmental Operating Principles. The comprehensive system approach shifts the decision-making focus from individual, isolated projects to an interdependent system, and from local or immediate solutions to regional or long-term solutions.