Flood Risk Management Newsletter

September 2010 vol 4 no 1

Focusing on - Corps of Engineers Resources for Flood Risk Management

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Coastal Engineering Research Board (CERB)

The Coastal Engineering Research Board (CERB) functions as an advisory board to the Chief of Engineers and was established by Public Law in 1963. It was originally the Beach Erosion Board established in 1930. The CERB provides broad policy guidance and review of plans and fund requirements for the conduct of research and development of research projects in consonance with the needs of the coastal engineering field and the objectives of the Chief of Engineers.

The Board meets semi-annually around the U.S. coastline and the Great Lakes on a rotating basis. The current Executive Secretary is Colonel Kevin J. Wilson. POC: Sharon Hanks, Sharon.L.Hanks@usace.army.mil. For additional information see http://chl.erdc.usace.army.mil/cerb

Environmental Advisory Board (EAB)

The Environmental Advisory Board (EAB) was created by the Chief of Engineers, Lieutenant General Frederick J. Clarke in 1970, as a means for the Chief to gain outside, expert and independent advice on environmental issues facing the Corps of Engineers. The Board is used as a vehicle of communication to build partnerships, understandings and cooperation with the environmental community, and public at large. The Environmental Advisory Board plays a key role in contributing to enhanced mutual understanding and confidence between the Corps and both the general public and the conservation community. POC: Rennie Sherman Rennie.H.Sherman@usace.army.mil . For additional information see http://www.usace.army.mil/CECW/Pages/eab.aspx

Interagency Levee Task Force: Innovation for Flood Water Management

The Regional Interagency Levee Task Force will explore both short- and long-term solutions on how to manage flood waters to reduce risks in the future. The U.S. Army Corps of Engineers is leading this collaborative regional approach to the long-term restoration of flood management systems damaged by the June 2008 Midwest floods. The Corps is working with the Federal Emergency Management Agency and other federal, state and local agencies to provide a uniform approach across the region impacted by the Midwest floods.

The task force is an umbrella organization designed to look at floodplain management on a regional level. Interagency levee work groups have been established at joint field offices, to review assistance requests from local entities, evaluate non-structural alternatives (creation of expanded floodways and ecosystems), and participate in the levee restoration process. Having the work groups at the joint field offices results in a coordinated “one-stop shop” for applicants seeking federal assistance for levee restoration, repair or other assistance.

The Task Force has held meetings since August 2008, and has enhanced communication and coordination among federal, state and local agencies; employed collaborative problem-solving where issues overlap various agency authorities; and worked to fashion best-business practices for the future. The Task Force is currently evaluating several potential non-structural alternatives for floodplain management: the Louisa County, Iowa, Levee District 11; the St. Charles County, Missouri, Kuhs Levee; the Grand Tower and Vandalia Drainage and Levee Districts in Illinois; and Gulfport, Illinois. http://www.mvd.usace.army.mil/rfrmt/index.htm

USACE Technical Committees

Engineering Regulation (ER) 15-2-14 establishes the Committees on Tidal Hydraulics, Channel Stabilization, Water Quality, and Hydrology. They are continuing committees of full-time civilian employees of the Corps of Engineers who are experts in the specific committee

specialty. The objectives, scope of each committee's activities, and general rules of operation are described. The committees are to maintain a continuing evaluation of the state-of-the-art, to disseminate information, to determine problem areas and recommend studies and research needed to provide improved techniques, to participate in the development of guidance, and to provide consulting service on specific problems as requested by various elements of the Corps of Engineers.

Advisory consulting services are provided to assist field elements in defining prolems, developing plans for solutions to problems, and identifying appropriate expertise to perform necessary investigations and studies. Requests for consulting services are to be submitted to the appropriate committee chairman, who coordinates with USACE Headquarters. Requests can also be sent to any committee member, who will contact the chairman of that committee. ER 15-2-14, is available on the USACE Headquarters Publications page, http://140.194.76.129/publications/ .

Committee on Tidal Hydraulics: The Committee on Tidal Hydraulics (CTH) addresses topics in the areas of tidal hydraulics, such as channel shoaling, hurricane surges, and saltwater intrusion. Chairmen – Robert McAdory, Robert.T.McAdory@usace.army.mil , and George W. Domurat, George.W.Domurat@usace.army.mil .

Committee on Channel Stabilization: the Committee on Channel Stabilization (CCS) addresses alluvial channel hydraulics and channel stabilization issues such as bank stabilization, erosion control, and river restoration. Chairmen – John Remus, John.I.Remus@usace.army.mil , and Freddie Pinkard, Freddie.Pinkard@usace.army.mil .

Committee on Water Quality: The Committee on Water Quality (CWQ) addresses the areas of water quality determination, prediction, and control for reservoirs and inland waterways as well as coastal and estuarine water resource projects. Chairmen: Steve Ashby, Steven.L.Ashby@usace.army.mil , and Boni Bigornia, Boniface.G.Bigornia@usace.army.mil .

Committee on Hydrology: The Committee on Hydrology addresses the areas of hydrologic engineering, such as rainfall runoff modeling, impacts of land use on runoff, flood routing, project design floods, flow frequency, low-flow hydrology, and risk. Chairmen: Jeff Harris, David.J.Harris@usace.army.mil . and Doug Clemetson, Douglas.J.Clemetson@usace.army.mil .

Technical Excellence Network – TEN

https://ten.usace.army.mil/techexnet.aspx [DoD Common Access Card (CAC) required]

The Technical Excellence Network is the knowledge sharing tool used by the Engineering and Construction (E&C) Community of Practice. It is the goal of this site to cut through much of the information overflow and allow us to find answers to technical issues whether the answer lies within our area of expertise or from outside our area of expertise. There are links to various Communities of Practice (CoPs) within USACE. There are many definitions of CoPs but for our purposes consider a CoP as a group of people whose members regularly engage in sharing and learning, based on common interests (such as on engineering or construction related issues, or real estate or legal issues, etc.). Additionally this site will serve as a gateway to useful information about career fields, learning opportunities, and career progression. Other USACE

CoPs use other knowledge sharing tools. Some use SharePoint and some the Engineering Knowledge Online, https://eko.usace.army.mil). The Operations and Regulatory CoP uses the Gateway, http://operations.usace.army.mil/ or http://operations.usace.army.mil/flood.cfm.

What is a Community of Practice (CoP)?

A CoP is a community of people who share a work practice, competence, or kind of knowledge in areas required by the Corps. CoPs form when groups of people throughout the organization with common interests come together in a variety of ways to share ideas and information, to learn, to develop alternatives for dealing with challenges they face, and to transfer knowledge. In addition to USACE personnel, a CoP may include stakeholders and others external to the Corps. CoPs can be informal or formal, short-term or long-term, but all CoPs are based on creating relationships founded on mutual trust, shared values, and open communication with the purpose of helping our customers succeed. Several CoPs are presented below.

Hydrology, Hydraulics & Coastal (HH&C) Community of Practice. The HH&C CoP is to be the steward of the body of knowledge constituting the professional practice of hydrology, hydraulics, and coastal engineering. POC: Jerry Webb, Jerry.W.Webb@usace.army.mil .

Levee Safety Community of Practice. The Levee Safety CoP is to be the steward of the body of knowledge constituting the professional practice of levee safety. POC: Eric Halpin, Eric.C.Halpin@usace.army.mil .

Dam Safety Community of Practice. Dam safety is the art and science of ensuring the integrity and viability of dams such that they do not present unacceptable risks to the public, property, and the environment. It requires the collective application of engineering principles and experience, and a philosophy of risk management that recognizes that a dam is a structure whose safe functioning is not explicitly determined by its original design and construction. It also includes all actions taken to identify or predict deficiencies and consequences related to failure, and to document, publicize, and reduce, eliminate, or remediate, to the extent reasonably possible, any unacceptable risks. **POC**: Travis Tutka, Travis.C.Tutka@usace.army.mil .

Flood Control and Coastal Emergencies

The Corps provides technical and direct assistance to communities in risk of or affected by floods, providing through special provisions of a federal law commonly referred to as Public Law 84-99. Services offered include:

Disaster Preparedness

- Participate in state and local emergency preparedness training and exercises;
- Inspect flood control works constructed by the Corps; and, upon request,
- Inspect non-federally constructed dams and flood control projects.

Flood Fighting

- Assist in search and rescue operations;
- Provide technical assistance and expertise;
- Make emergency repairs to levees and other flood control projects; and

- Furnish flood fight materials such as sandbags, plastic sheeting, lumber, pumps, rocks.

Post-Flood Response

- Clear drainage channels, bridge openings or structures blocked by storm-generated debris;
- Clear blockages to critical water supply intakes and sewer outfalls;
- Remove debris necessary to reopen vital transportation routes;
- Restore critical public services and facilities through temporary measures; and
- Identify hazard mitigation opportunities.

Rehabilitation

- Repair and/or restore completed levees, floodwalls and other flood damage reduction projects; and
- Repair and/or restore hurricane or shore protection structures damaged or destroyed by wind, wave or water action from storms.

NHP Resource Center Website

The National Hurricane Program (NHP) Resource Center stood up its website in July 2010, http://www.iwr.usace.army.mil/nhp/index.cfm. The mission of the NHP Resource Center website is to provide a data repository that allows Federal, state, local, and tribal emergency management program partners to quickly access data and information from NHP products to assist their hurricane emergency management planning. Additionally, this site provides an avenue for education and training about NHP tools and products. Specifically, NHP products and information provided on this website include:

- Hurricane Evacuation Studies
- Post Storm Assessments
- HURREVAC Training Opportunities
- Status of On-Going Program Activities

The NHP helps protect communities and residents from hurricane hazards through its projects and activities. Established in 1985, the NHP conducts assessments and provides tools and technical assistance to state and local agencies for developing hurricane evacuation, response, and recovery plans. The program is a multi-agency partnership with oversight by the Federal Emergency Management Agency (FEMA). Federal NHP partnering agencies include National Oceanic & Atmospheric Association (NOAA), National Weather Service (NWS), and the U.S. Army Corps of Engineers (USACE). USACE has been a NHP partner since the program's inception in 1985, providing oversight and technical guidance.

Centers of Expertise - CXs

Centers of Expertise, or CXs, are designated USACE organizations or individuals who have a demonstrated capability and expertise in a specialized area. They improve capabilities and management, eliminate redundancy, and optimize the use of specialized expertise and resources. They also enhance Corps-wide consistency, facilitate technology transfer, help maintain institutional knowledge in key areas, and improve service to customers. A few of the CXs are

described below. The Planning Centers of Expertise, with points of contact, are listed on http://www.usace.army.mil/CECW/PlanningCOP/Pages/plan_cx.aspx

In August 2003, the Corps' Director of Civil Works directed the establishment of national centers to conduct larger, complex planning studies for inland navigation, deep-draft navigation, ecosystem restoration, water supply, and flood damage reduction. The national centers are part of a Corps initiative to improve the quality and effectiveness of the planning process for water resources projects called the Planning Excellence Program (PEP). The PEP includes training and work force capability improvement, enhanced quality assurance and control efforts, process improvement and regional and national planning centers.

Flood Risk Management – South Pacific Division. The Flood Risk Management Planning Center of Expertise (FRM-PCX) was established at the South Pacific Division. The FRM-PCX is a virtual center with resources located across the country. It includes members of the South Pacific Division as the lead Major Subordinate Command and members or the Northwestern, Great Lakes and Ohio River, and Mississippi Valley Divisions as partnering regional business centers. It also includes members from the Institute of Water Resources, the Hydrologic Engineering Center. the Engineer Research and Development Center, and the National Non-Structural Flood Proofing Committee. It supports Project Delivery Teams in the accomplishment of planning studies that are nationally significant, complex, large in scope and/or are controversial, by developing, maintaining and applying the best and most appropriate engineering, economic, and environmental expertise and considerations in response to the Nation's flooding problems. POC: Frm-pcx@usace.army.mil

Coastal Storm Damage Reduction. The Coastal Storm Damage Reduction National Planning Center of Expertise (PCX-CSDR) was established at the North Atlantic Division. It supports the Corps' coastal storm damage reduction, regional sediment and affiliated ecosystem restoration needs at both the national and international levels. The purpose is to develop, maintain and apply the best and most appropriate national and regional expertise and science and engineering technology to the ***planning*** of coastal storm damage reduction projects. POC: Larry Cocchieri, Lawrence.J.Cocchieri@usace.army.mil .

Ecosystem Restoration. The MVD was assigned the ECO-PCX. The ECO-PCX will be consistent with other national centers and thus, over time, will be adjusted based on experience and further direction. The center's structure and functions will evolve over time as experience is gained and the Center matures. ECO-PCX@usace.army.mil

Water Management and Reallocation Studies. The Water Management and Reallocation Studies Planning Center of Expertise (PCX**)** was assigned to the Corps' Southwestern Division (SWD) office in Dallas, Texas. http://www.swd.usace.army.mil/pcx/index.asp

What is a RIT

Regional Integration Team Regional Integration Teams (RITs) provide a single point of contact and representation for the Region at the Washington level, integrate regional mission areas including resources and program requirements, and establish and maintain relationships at the national level.

Great Lakes and Ohio Division - The Great Lakes and Ohio River Division (LRD) RIT provides centralized headquarters support to 7 districts. These districts serve 25% of the total U.S. population who reside within their Great Lakes and Ohio River watersheds, which encompass 335,000 miles and 17 states.

Labs, etc

Institute for Water Resources (IWR). The IWR provides the following services: studying and evaluating water resources policy issues; conducting national-scope studies on various aspects of water resources development; examining potential new civil works missions; performing program analysis and evaluation studies; R&D of new techniques to address economic, social, institutional, and environmental issues; training and technical assistance in the use of innovative formulation and evaluation approaches; and, developing and maintaining navigation planning data bases and models. http://www.iwr.usace.army.mil/

Hydrologic Engineering Center (HEC). The Hydrologic Engineering Center (HEC), an element of the Institute for Water Resources, US Army Corps of Engineers, exists to support the Corps Civil Works water resources management responsibilities by increasing the Corps technical capability in hydrologic engineering and water resources planning and management. HEC provides services of research, training, and technical assistance that reflect the state-of-the-art in hydrologic engineering and closely associated planning analysis. Major products are technical methods documents, computer software and user's manuals, and technical assistance. The products are developed for the Corps; however, they are available to the public. Please contact Center for additional information. http://www.hec.usace.army.mil/

Engineering Research and Development Center (ERDC). The ERDC consists of the **Coastal and Hydraulics Laboratory** (CHL), the **Cold Regions Research and Engineering Laboratory** (CRREL), the **Construction Engineering Research Laboratory** (CERL), the **Environmental Laboratory** (EL), the **Geotechnical and Structures Laboratory** (GSL), the **Information Technology Laboratory** (ITL), and the **Topographic Engineering Center** (TEC). The mission of the ERDC is to provide science, technology, and expertise in engineering and environmental sciences in support of our Armed Forces and the Nation to make the world safer and better. http://www.erdc.usace.army.mil/

FPMS Celebrates 50th Anniversary

In June 2010, LTG Robert Van Antwerp, USACE Commander, wrote

> This year we celebrate the Golden Anniversary of a quietly effective, unique Corps activity. The Flood Plain Management Services (FPMS) Program of the Civil Works Directorate was authorized 50 years ago under Section 206 of the Flood Control Act of 1960. The program provides floodplain management assistance to states, counties, cities, indivuals, and other Federal agencies…The FPMS program activities contribute directly towards achieving Goal 2 of the USACE Campaign Plan, by delivering enduring and essential water resources solutions through collaboration with partners and stakeholders.

These positive experiences can be used as a model for Corps collaboration in our maturing Flood Risk Management Program.

The Corps' Flood Plain Management Services Program provides flood hazard determinations, technical data on flood hazards, and guidance on flood proofing, floodplain regulations, flood warning, emergency preparedness, and evacuations planning.

Join the celebration at USACE Headquarters or via webinar on 3 December from 1100 – 1300, EST. For more information please contact Judy.M.Soutiere@usace.army.mil .

The FPMS Program also staffs the National Nonstructural/Flood Proofing Committee (NFPC), which supervises research and provides technology transfer on relocation, elevation, and other flood proofing techniques. The Committee conducts workshops, develops and disseminates publications, and coordinates with other agencies and associates involved in flood proofing. POC: Joe Remondini, Joseph.Remondini@usace.army.mil . For additional information see http://www.usace.army.mil/CECW/PlanningCOP/Pages/flood.aspx.

Streambank Erosion & Protection PROSPECT Course Now Online!

Lecture material from PROSPECT Class 285, Streambank Erosion & Protection, is now available online through the USACE Learning Network, at http://www.myuln.net. This material is among the first online learning material released. The two volumes cover much (but not all) of the class material. The online class is open to USACE only.

Instructors include Dave Derrick, Steve Maynord, and Charlie Little of the USACE Coastal and Hydraulics Laboratory (CHL), Dick Peterson of the Geotechnical and Structures Laboratory, and David Biedenharn and Hollis Allen, both retired USACE.

Clay LaHatte, CHL, led and executed production of the video. The product has good visual and audio appeal. Dr. Rick Montgomery of Huntsville ensured that it got online.

Official COE Publications

The Publications of the Headquarters, United States Army Corps of Engineers homepage, http://140.194.76.129/publications/ , is the only repository for all **official** USACE engineering regulations, circulars, manuals, and other documents originating from HQUSACE. These publications are provided in portable document format (PDF).

The USACE Engineer Research and Development Center, ERDC, has extensive library resources. The ERDC Professional Library Services homepage, http://itl.erdc.usace.army.mil/library/ , allows access to their various services, some of which are for Corps personnel only.

Also see the **US Army Corps of Engineers Daily News.** This link is restricted to those on the USACE network. https://hqintra1.hq.ds.usace.army.mil/pao/daily_news/index.htm

PROSPECT Courses FY 2011

No.	Title	Dates	Location
11	Coastal Project Planning	11-15 Apr 2011	Duck, NC
28	Dam Safety	7-10 Mar 2011 4-7 Apr 2011 2-5 May 2011 20-23 Jun 2011 18-21 Jul 2011	Grenada, MS
98	Reservoir Systems Analysis with HEC-RESSIM	24-28 Jan 2011	Davis, CA
158	Flood Control & Coastal Emergencies	TBA	TBA
164	Water and The Watershed	15- 19 Nov 2010	Davis, CA
209	Risk Analysis for Flood Risk Management	18-22 Oct 2010	Davis, CA
263	Coastal Ecology	13-17 Jun 2011	Newport, OR
282	Slope Stability Analysis	6-10 Jun 2011	Huntsville, AL
285	Streambank Erosion & Protection	18-22 Oct 2010 21-25 Mar 2011	Vicksburg, MS
320	H&H For Dam Safety Studies	7-11 Mar 2011	Davis, CA

Additional Information: *http://pdsc.usace.army.mil/downloads/PurpleBook2010.pdf*

Conferences

This listing is for information only and is not a complete list of FRM-related meetings. These meetings are not endorsed by the Corps of Engineers unless specifically stated. If we have failed to list a conference/meeting/symposium that would be of interest to the Flood Risk Management community, please forward us the conference details.

29 November – 10 December 2010 – 2010 United Nations Climate Change Conference – Cancun, Mexico – http://unfccc.int/2860.php

5-8 December 2010 – 4th International Conference on Water Resources & Arid Environments (2010) – Riyadh, Saudi Arabia – http://www.icwrae-psipw.org/

8-10 December 2010 – Streambank Stabilization for Restoration and Flood Control Projects – Chicago, IL – http://asce.org

20-21 January 2011 – Introduction to Detention Pond Design: Parking Lots and Urban Drainage – San Antonio, TX – http://asce.org

3-5 February 2011 – Implementing the Human Right to Water in the West – Salem, OR – http://www.willamette.edu/wucl/news/2010/spring/water_conf_papers.php

9-11 February 2011 – National Conference on Beach Preservation Technology – Jacksonville, FL – http://fsbpa.com/conferences.html

24-25 February 2011 – International Conference on Stormwater and Urban Water Systems Modeling – Toronto, Ontario – http://asce.org

1-3 March 2011 – ASBPA Coastal Summit 2011 – Washington, DC – http://asbpa.org/conferences/sum_11.htm

7-8 March 2011 – International Conference On Water Resources Engineering & Management 2011 – Lahore, Punjab, Pakistan – http://www.uet.edu.pk/Conferences/icwrem2011/

14-17 March 2011 – Annual International Conference on Soils, Sediments, Water and Energy – San Diego, CA – http://www.aehsfoundation.org

6 – 7 April 2011 – CIWEM's (Chartered Institution of Water and Environmental Management) Annual Conference, Water and Environment – London, United Kingdom - http://www.coastms.co.uk/conferences/438

11 -13 April 2011 – International Conference on Vulnerability and Risk Analysis and Management (ICVRAM) and USUMA Fifth International Symposium on Uncertainty and Analysis – Hyattsville, MD - http://content.asce.org/conferences/icvram2011/index.html

11-13 April 2011 – Georgia Water Resources Conference – Athens, GA - http://www.gawrc.org/conference_info.html

11-15 April 2011 – United States Society on Dams, 2011 Annual Meeting and Conference – San Diego, CA – http://www.ussdams.org/2011conf.html

13-15 April 2011 – ECOSUD 2011 – 8th International Conference on Ecosystems and Sustainable Development – Alicante, Spain – http://www.wessex.ac.uk/11-conferences/ecosud-2011.html

27-29 April 2011 – Coastal Processes 2011, 2nd International Conference on Physical Coastal Processes, Management and Engineering – Naples, Italy – http://www.wessex.ac.uk/11-conferences/coastalprocesses-2011.html

2-6 May 2011 – Coastal Sediments 2011 – Miami, FL – coastalsediments.cas.usf.edu

9-14 May 2011 – 11th International Coastal Symposium – Szczecin, Poland – http://www.ics2011.pl/

15-20 May 2011 – ASFPM Conference – Louisville, KY – http://www.floods.org

22-26 May 2011 – World Environmental and Water Resources Congress – Palm Springs, CA – http://content.asce.org/conferences/ewri2011/index.html

23-25 May 2011 – Water Resources Management 2011 – 6th International Conference on Sustainable Water Resources Management, Riverside, CA – http://www.wessex.ac.uk/11-conferences/waterresourcesmanagement-2011.html

25-27 May 2011 – River Basin Management 2011, 6th International Conference on River Basin Management – Riverside, CA – http://www.wessex.ac.uk/11-conferences/riverbasinmanagement-2011.html

6-9 June 2011 – 5th International Short Conference on Applied Coastal Research (SCACR) – Aachen, Germany – http://www.iww.rwth-aachen.de/scacr ; abstract deadline 15 January 2011

13-17 June 2011 – USACE Infrastructure Systems Conference (ISC), Quality Design & Construction for a Stronger Future – Atlanta, GA

25-29 June 2011 – Solutions to Coastal Disasters – Anchorage, AK – http://content.asce.org/conferences/cd2011/index.html

26-29 June 2011 – Solutions to Coastal Disasters Conference – Anchorage, AK – http://content.asce.org/conferences/cd2011/index.html

17-21 July 2011 – Coastal Zone 2011 – Winds of Change: Great Lakes, Great Oceans, Great Communities, Chicago, IL – http://www.doi.gov/initiatives/CZ11/index.htm

1-5 August 2011 – NCER – 4th National Conference on Ecosystem Restoration – Baltimore, MD – http://conference.ifas.ufl.edu/NCER2011/

21- 24 August 2011 – Coastal Engineering Practice – San Diego, CA - http://content.asce.org/conferences/copricoastal2011/index.html

22-26 August 2011 – Tentative 2nd USACE Flood Risk Management and Silver Jackets Workshop – Nashville, TN – stay tuned

13-15 September 2011 – Lake Sustainability 2011 – 1st International Conference on Lake Sustainability, New Forest, UK – http://www.wessex.ac.uk/11-conferences/lakesustainability-2011.html

14-16 September 2011 – FSBPA Annual Conference – Miami Beach, FL - http://fsbpa.com/conferences.html

25-29 September 2011 – Association of State Dam Safety Officials – Annual National Conference – Washington, DC – http://www.damsafety.org/

27-29 September 2011 – 5th International Conference on Flood Management ($ICFM_5$) – Tsukuba, JAPAN - http://www.ifi-home.info/ICFM.html

19-21 October 2011 – ASBPA National Coastal Conference – New Orleans, LA – http://asbpa.org/

1-3 November 2011 – NAFSMA Conference – TBA – http://www.NAFSMA.org

15-16 November 2011 – Coastal Management 2011: Innovative Coastal Zone Management: Sustainable Engineering for a Dynamic Coast – Belfast, United Kingdom – http://www.ice-coastalmanagement.com/

17-19 November 2011 USACE R&D Conference – Memphis, TN – no site yet

23-25 November 2011- ICCCGW 2011 – International Conference on Climate Change and Global Warming – Venice, Italy – www.waset.org/events.php

28 November – 9 December 2011 - 2011 United Nations Climate Change Conference – South Africa - http://www.ourglocal.com/?c=19%2C4060

Subscribe – Unsubscribe – Feedback

To subscribe/unsubscribe: *http://operations.usace.army.mil/flood.cfm*.

We would love your input – recommended article length is ½ to 1 page. Articles should be submitted to Doyle L. Jones, Canvassing Editor, Doyle.L.Jones@usace.army.mil.

Also, we would appreciate your feedback. Contact Dinah McComas, Managing Editor, Dinah.N.McComas@usace.army.mil or Doyle Jones.

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