PLANNING AHEAD

Notes for the Planning and Policy Community

US Army Corps of Engineers

September 2010 **Volume 13, Issue 7**

Inside This Issue

A Note from the Leader of the Planning Community of Practice

Greetings fellow planners! I would like to begin my remarks this month by wishing everyone a Happy New Fiscal Year and thanking everyone for all the hard work you have done to advance the Planning Community of Practice and the Civil Works mission of the Corps during the past year. Your efforts continued to bear fruit in so many areas, whether it is providing hurricane protection in the New Orleans area, environmental restoration in the Everglades, flood risk reduction in the Midwest, or commercial navigation improvements in the Northeast. In this month's column I would like to take the opportunity to recognize the recent graduates of the Planning Associates Class of 2010 and announce the members of the Planning Associates Class of 2011.

In mid-September the Planning Associates Class of 2010 held its graduation ceremony at the Corps of Engineers Headquarters building in Washington. In attendance were Major General William T. Grisoli, Deputy Commanding General for Civil Works and Emergency Operations, Mr. Steven Stockton, Director of Civil Works, Mr. Harry Kitch and Ms. Joy Muncy, Planning Associates Program Managers. Congratulations to the members of the Planning Associates Class of 2010:

- **Ms. Kelly Baerwaldt**, Rock Island District;
- **Mr. Durund Elzey**, New Orleans District;
- **Mr. Steven Fischer**, Kansas City District;
- **Ms. Charissa Kelly**, Fort Worth District;
- **Ms. Melissa Montag**, Sacramento District;
- **Mr. David Schulenberg**, Buffalo District;
- **Ms. Julie Watkins**, Mobile District; and,
- **Mr. Raymond Wimbrough**, Jacksonville District.

Announcement of the Members of the Planning Associates Class of 2011

It gives me great pleasure to announce the selection of the following individuals as members of the Planning Associates Class of 2011:

- **Mr. Craig Carrington,** Nashville District;
- **Ms. Anne Compton,** Baltimore District;
- **Ms. Cherilyn Gibbs,** Little Rock District;
- **Mr. Douglas Gorecki,** Buffalo District;
- **Ms. Lauren Kruse,** Fort Worth District;
- **Mr. Crorey Lawton,** New Orleans District;
- **Mr. John Ortlieb,** Rock Island District;

- **Mr. Douglas Piatkowski,** Wilmington District;
- **Ms. Stacy Samuelson,** Sacramento District;
- **Ms. Rebecca Weiss,** Northwestern Division; and,
- **Mr. Michael Wyatt,** St. Paul District.

I want to offer my sincerest congratulations to each of them on their selection and may their learning opportunities and exposure to the many facets of the Corps through the Planning Associates program serve them and the Corps of Engineers well in the future.

Essayons,

Theodore A. "Tab" Brown, P.E., SES
Chief, Planning and Policy, HQUSACE
Directorate of Civil Works
Planning Smart, Building Strong

WORDS FROM THE EDITOR

This month's issue of *Planning Ahead* begins with Mr. Tab Brown offering words of congratulations to the recent graduates of the Planning Associates Class of 2010 and takes the opportunity to announce the selection of individuals for Planning Associates Class of 2011.

Mr. Steve Rochette and Ms. Beth Brandreth of the Philadelphia District discuss the efforts to protect the piping plover as part of the Lower Cape Meadows—Cape May Point, New Jersey project. This effort earned the Philadelphia District recognition by the U.S. Fish and Wildlife Service as 2009 Endangered Species Recovery Champions.

Mr. Rolf Olsen of the Institute for Water Resources reports on the publication of the proceedings of a workshop convened in January 2010 on the subject of non-stationary, hydrology frequency analysis, and water management.

Mr. Ted Hillyer of the Institute for Water Resources reports on the update of information on municipal and industrial water supply, now available on the Value to the Nation website. In addition, Mr. Hillyer reports that a new report entitled "2009 Municipal and Industrial Water Supply Database" (IWR Report 10-R-2) has just been published.

Mr. Steve Fischer of the Kansas City District and a member of the recently graduated Planning Associates Class of 2010 reports on the Planning Associates training module on Deep Draft Navigation held in Mobile, Alabama.

Mr. Dave Schulenberg of the Buffalo District and member of the recently graduated Planning Associates Class of 2010 reports on the Planning Associates training modules on Cultural Resources and Tribal Affairs (held in St. Louis, Missouri) and Small Boat Harbor and Intergovernmental Coordination (held in Honolulu, Hawaii).

Also included in this month's issue of *Planning Ahead* is a listing of employment opportunities from around the Corps, upcoming PROSPECT training courses, upcoming conferences, including a Call for Abstracts for the next July's Coastal Zone 2011 conference to be held in Chicago, Illinois, and recent publications in the field of water resources planning and engineering.

Thank you to all the members of the Planning Community of Practice for their continued support and interest in the *Planning Ahead* newsletter.

Ken Lichtman, Editor
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Philadelphia District recognized by the USFWS for protecting endangered species

By Steve Rochette and Beth Brandreth, Philadelphia District

The piping plover is a small sand-colored, sparrow-sized shorebird that nests and feeds along coastal and gravel beaches in North America. The piping plover is designated as threatened along the Atlantic Coast, which means that the population would become endangered and face possible extinction without Endangered Species protection. In Cape May, New Jersey the number of nesting birds has tripled during the last five years, thanks in part to efforts of the Philadelphia District.

Piping Plover

This past spring the U.S. Fish and Wildlife Service (USFWS) recognized the Philadelphia District for this positive development and other work to protect and enhance piping plover and seabeach amaranth habitat by naming them 2009 Endangered Species Recovery Champions during a ceremony held on April 8.

Recovery Champions are U.S. Fish and Wildlife Service staff and their partners whose work is advancing the recovery of endangered and threatened species of plants and animals in the United States. The award letter stated that the Philadelphia "District has shown exemplary leadership in utilizing its authorities under Section 7(a)(1) [of the Endangered Species Act] to carry out programs for the conservation of listed species while still meeting the goal of coastal storm protection."

"The Philadelphia District has truly taken ownership and embraced their role," added Ms. Annette Scherer, endangered species team leader and biologist for the USFWS in Pleasantville, NJ. "Without their cooperative efforts, there would have been a significant population loss in piping plovers in this region."

While planning projects, all Federal agencies must consider potential impacts to federally protected species under the Endangered Species Act. In 2005, the Philadelphia District received a programmatic Biological Opinion from the USFWS that detailed potential impacts of coastal projects to the piping plover and seabeach amaranth, and outlined the protective measures to be taken during project implementation. This document was the result of extensive coordination and cooperation between the two agencies to meet the goals of all involved.

Ms. Beth Brandreth, a biologist in the Environmental Resources Branch (Planning Division) said the District strives to build projects that serve more than one purpose. "We try to create multi-functional projects that achieve a primary goal, but also protect and sometimes enhance habitats for endangered species," said Ms, Brandreth. "We coordinate with our federal partners and work closely with the towns to ensure projects meet the protective guidelines."

Ms. Brandreth said the District's Lower Cape May Meadows— Cape May Point, NJ project has been a prime example of this multi-objective planning in practice. This ecosystem restoration project included beach nourishment, wetland improvements, and the creation of shallow ponds to enhance the freshwater feeding habitat for plovers and other species behind the dunes. The project team constructed three 'plover crossovers,' sandy ramps over the dunes with a 10:1 slope and no vegetation. The crossovers allowed the birds to access the freshwater ponds, which provided critical foraging areas away from human disturbance on the beach. Since the completion of work, plover numbers have significantly increased according to the USFWS.

Ms. Scherer said the Lower Cape May Meadows project has been a model for success with government agencies working together. "It's the responsibility of federal agencies to protect endangered species," said Ms. Scherer. "The Philadelphia District understands that and it's been a pleasure to work with them."

USFWS specifically recognized the following District employees for their contributions related to the conservation work: Ms. Brandreth and Mr. Jerry Pasquale of Planning's Environmental Resources Branch; Mr. Dwight Pakan and Mr. Keith Watson of Programs and Project Management; and Ms. Monica Chasten, Mr. Kevin Maley, Mr. Sam Reynolds, Mr. Jim Boyer and Mr. Jeffery Steen of the Operations Division.

For learn more about the USFWS Endangered Species program, visit: http://www.fws.gov/endangered/.

USFWS presents Recovery Champion Award to Mr. Jerry Pasquale, Ms. Beth Brandreth and LTC Thomas Tickner, Philadelphia District Commander

IWR Publishes Proceedings of "Workshop on Nonstationarity, Hydrologic Frequency Analysis, and Water Management"

By J. Rolf Olsen, Institute for Water Resources

The proceedings of a "Workshop on Nonstationarity, Hydrologic Frequency Analysis, and Water Management" have been published by the Institute for Water Resources. The workshop, held January 13-15, 2010 in Boulder, Colorado, brought together researchers and practitioners from the United States and international institutions. The workshop was sponsored by the International Center for Integrated Water Resources Management (ICIWaRM), the Colorado State University, and five federal water agencies involved in the Climate Change and Water Working Group - the U.S. Army Corps of Engineers, the U.S. Geological Survey, the Bureau of Reclamation, the National Oceanic and Atmospheric Administration, and the Environmental Protection Agency.

An underlying assumption of traditional hydrologic frequency analysis is that climate, and hence the frequency of hydrologic events, is stationary, or unchanging over time. Anthropogenic climate change and better understanding of decadal and multi-decadal climate variability present a challenge to the validity of this assumption. Participants at the workshop discussed possible alternatives to the assumption of stationarity in hydrologic frequency analysis and water management.

The workshop objectives were (1) to discuss in detail how water management agencies should plan and manage water resources in the face of nonstationarity, and (2) to form a coordinated action plan to help the agencies move forward.

The workshop was organized into several main themes:

- Introduction to the problem nonstationarity poses for water management;
- Understanding nonstationarity through data analysis and statistical methods;
- Forecasting future hydrologic frequency through the use of climate model information;
- Decision making with a highly uncertain future;
- International perspectives on nonstationarity, and;
- Summary and conclusions.

The workshop program included presentations by five Nobel Peace Prize laureates who were lead authors for Intergovernmental Panel on Climate Change reports. International participants came from Canada, the United Kingdom, Japan, Poland, Greece, and Italy.

Workshop presenters from the Army Corps of Engineers included the following individuals:

- Beth Faber, PhD, Hydrologic Engineering Center
- Prof. Gerald E. Galloway, Jr. , Maass-White Visiting Scholar 2006-2007
- J. Rolf Olsen, PhD, Responses to Climate Change Program, IWR
- Nate Snorteland, Director, Risk Management Center
- Eugene Stakhiv, Technical Director ICIWaRM, Senior IWR International Water Advisor
- Prof. Jery R. Stedinger, Leo R. Beard Visiting Scholar 2005-2006
- Jerry Webb, Principal Hydrologic and Hydraulic Engineer, USACE, Headquarters.

IWR Updates Information on the Corps' Municipal and Industrial Water Supply Program

By Ted Hillyer, Institute for Water Resources

The Institute for Water Resources recently updated the Water Supply Section of the Value to the Nation website with Water Supply Fast Facts. This interactive tool allows users to quickly view information on municipal and industrial water supply infrastructure throughout the country. Users can search for water supply projects by state or by Corps Division, and after selecting a particular project, data is presented including the watershed, river, Corps District, storage space, project yield and reservoir purpose(s).

Water Supply Fast Facts complements a recently completed report, entitled "*2009 Municipal and Industrial Water Supply Database*," (IWR Report 10-R-2) which provides data on the 133 water supply projects operated and maintained by the Corps that contain municipal and industrial storage space. This report includes information on distribution of storage space, reallocations, revenues and more.

By publishing the *2009 Municipal and Industrial Water Supply Database* report on the IWR website and posting Water Supply Fast Facts on the Value to the Nation website, IWR is facilitating access to this data for Corps personnel, Congressional staff and the public.

The Value to the Nation website highlights the water resources missions of the U.S. Army Corps of Engineers and the economic and environmental benefits these missions provide. This website also features information about recent activities in each mission area and helpful brochures. Value to the Nation assists the Corps in communicating the many responsibilities and activities carried out by its personnel in the field of water resources.

FEATURED ARTICLE

Planning Associates Class of 2010: Planning CoP Conference 2010 and Deep Draft Navigation Training Module

by Steve Fischer, Kansas City District

The next stops on our Planning Associates 2010 journey were the Planning Community of Practice Conference (PCoP) in Orlando, FL (please see the July edition of *Planning Ahead* for a report out on the PCoP) and then a week in Mobile, Alabama for a module on Deep Draft Navigation.

My Planning Associate (PA's) colleagues and I were busy during our week in Orlando as we staffed a booth describing the PA Program, served as designated meeting session note takers, held our mid-year IPR with management and course owners, took our mid-year exam, and found some time to attend the actual sessions. The value in attending the PCoP is the ability to interact, share ideas in larger forums, and networking with the 475 attendees. A perk of the PA Program is the introduction during the year to so many different people from around the country, and during the PCoP Conference you are then able to re-connect with them.

We left the hot, muggy weather of central Florida for the hot, humid weather of Mobile, Alabama – home district for our fellow PA10'er, Julie Watkins. The Deep Draft Navigation (DDN) course was led by Kim Otto and Bernard Moseby of the Mobile District. Topics discussed during the module included background on DDN, plan formulation for DDN projects, the role of the Engineer Research and Development Center (ERDC), environmental effects of and on DDN projects, dredging, coastal zone management, economics, naval architecture, and the DDN Planning Center of Expertise.

Monday began with welcomes and command briefings from both the District and South Atlantic Division. COL Steven J. Roemhildt, District Engineer of the Mobile District offered welcoming remarks as did Mr Wilbert Paynes, Chief of the Planning Division at the South Atlantic Division office, who provided an overview of the South Atlantic Division. Within the Division, Planning activities are focused on ecosystem restoration, 29 DDN ports, and coastal storm damage reduction. Mr. Ken Claseman of the USACE, Headquarters, Office of Water Project Review then provided the PAs with an extensive overview of DDN within the Corps of Engineers.
Federal interest in navigation is established by the Commerce Clause of the U.S. Constitution (Article one, Section eight) and subsequent court decisions, defining the right to regulate navigation and improvement of the navigable waterways. In 1819, John C. Calhoun, then Secretary of War, recommended that the U.S. Army Corps of Engineers be directed to improve waterways navigation and other transportation systems because such civil works projects would facilitate the movement of the U.S. Army and its materials while contributing to national economic development. Congress finally accepted Calhoun's recommendations in 1824. It passed the General Survey Act in April of that year, authorizing the president to use U.S. Army engineers to survey roads and canal routes "of national importance, in a commercial or military point of view." In May 1824, Congress appropriated $75,000 for improving navigation on the Ohio and Mississippi rivers. This law allowed the president to employ "any of the engineers in the public service which he may deem proper" for the work. Also under this act, the Corps began to remove snags and floating trees from the Ohio and Mississippi rivers and improve the Ohio's channel by attacking the sandbars that impeded river commerce.

One question we all had was what differentiates DDN from other forms of navigation? The answer -- "Deep Draft" is generally defined as project depths greater than 14 feet in depth.

Some facts about DDN:

- The Corps is responsible for maintenance of about 300 deep-draft port and harbor projects;
- Navigation is the oldest and largest mission of the Corps Civil Works program;
- Navigation has a $1.7 billion annual budget, of which only 21% is for new construction and 79% is for O&M activities;
- Some special Corps navigation programs include:
- Removal of wrecks and obstructions;
- Modification of existing highway and rail bridges that obstruct navigation;
- Clearing and snagging;
- Drift and debris removal;
- Mitigation of shoreline damage;
- Dredging contaminated sediments.
- The primary authority for cost sharing DDN improvements is Section 101 of the Water Resources Development Act of 1986.

Other issues and topics raised during our discussions included the following:

- Many coastal ports are nearing capacity;
- Cargo volumes are projected to double by 2025;
- A generation behind in channel design;
- Capacity constraints increase transportation costs, pollution, congestion;
- Declining funds for operations and maintenance activities;
- Aging infrastructure;
- Dredging constraints – where to place fill?

Mr. Roger Burke spoke to the PAs about DDN planning considerations and navigation measures. One of first steps is to learn there are many different vessel types that frequent deep-draft harbors. These include break bulk vessels, dry bulk carriers, tankers, containerships, roll on/roll off vessels, liquefied natural gas tankers, and cruise ships. In regards to containerships, they are specifically designed for containerized cargo. These containers can be offloaded to semi-trucks, rail cars, or stacked on ships. Key note here is that the containers are typically measured by twenty-foot equivalent units (20' x 8' x 8') or TEUs. We learned about non-structural alternatives for DDN, which includes measures such as use of tides, light loading (off loading off-shore), under keel restriction limits, and traffic management. Bottomline on plan formulation is that most DDN projects are led by economists due to the extensive economics component of the projects.

Ken Claseman then spoke to us about the complexities of DDN cost-sharing. Bottomline is that cost-sharing is channel depth dependent – ranging from 10% at depths less than 20 feet to 50% for depths greater than 45 feet.

The final presentation of the day was by Mr. Todd Nettles of the Mobile District who gave a presentation on the use of HarborSym, a planning level simulation model developed to assist in the economic evaluation of proposed harbor improvements.

Tuesday morning's session began with Mr. Dennis Webb of the Coastal Hydraulics Laboratory at the Engineer Research and Development Center providing an overview of ERDC's role in DDN (which includes harbor simulation studies) and educating us on the basic elements of navigation (e.g., 6 degrees of ship motion, navigation channels, structures, environmental conditions, aids to navigation). Needless to say, there is more to understand and consider when developing DDN projects than I ever imagined!
The afternoon session included an overview of the navigation business line from Mr. Jim Walker from the Operations Division at USACE Headquarters and Mr. Carl Dyess from the Operations Division at Mobile District, who provided a great prelude to our field trip with a presentation on "Dredging 101."

The final presentation of the day was by Mr. William Hansen, Vice President, Great Lakes Dredge and Dock Company. Mr. Hansen provided some perspective on Great Lakes Dredge's positive working relationship with the Corps, and offered the suggestion that DDN projects should include dredging companies as part of the study and project development team to better improve communication and long-range planning. Tuesday concluded with an ice breaker at Wintzell's Oyster House, and I believe a great time was had by all who attended!

Wednesday was our field trip day, which included the opportunity to board the hydraulic dredge *M/V Missouri H*. Although the dredge was working on some cutterhead issues, it was impressive to see the size of the dredge, tour the ship, and discuss typical operations with the crew. We then went landside to view the containment dredge basins and learn how they were operated. The afternoon included a boat ride through the harbor, which showcased the new container port and related loading / offloading equipment and some large dry dock facilities.

Working to repair the cutterhead aboard the dredge M/V Missouri H (photo by Steve Fischer)

Thursday morning was devoted to environmental considerations, which included discussions with Mr. Phil Payonk and Ms. Jennifer Owens of the Wilmington District. They described the myriad of environmental regulations that need to be considered related to DDN. Your environmental staff should be able to guide you under the large NEPA umbrella with important acts such Magnuson-Stevens Fishery Conservation and

Management Act, the Sustainable Fisheries Act of the 1996, the identification of Essential Fish Habitat, the Migratory Bird Treaty Act, the Abandoned Ship Wreck Act, the Marine Protection Research and Sanctuaries Act (3 mile limit), the Coastal Barrier Resources Act, and the Coastal Zone Management Act (CZM). The topic of CZM was expanded upon by Ms. Willa Brantley, who serves as the Director of the Bureau of Wetlands Permitting with the Mississippi Department of Marine Resources and Mr. Phil Hinesley with the Alabama Department of Conservation and Natural Resources.

PA's at dredge disposal site during field trip in Mobile, Alabama (photo by Julie Watkins)

Mr. Ian Mathis of the Institute for Water Resources amazed us all afternoon with his presentations on economic benefits analysis and DDN information on naval architecture. In terms of economics, the wild card in the equation is the completion of the expansion of the Panama Canal in 2015. It can potentially change the size of ships moving through the canal and then wanting to dock at US ports. The problem is that our ports cannot handle such deep draft ships. Key take away notes are that:

- The Corps has no standardized economic model to evaluate the benefits of navigation improvements to container ships;
- Data issues are daunting;
- Modeling is subject to large uncertainties.

Ian's presentation on naval architecture was impressive. For a guy who has been around watercraft most of my life, I had no idea how much 'science' went into the design and operation of ships.

On our final day of DDN, Bernard Moseby spoke to us about the Deep Draft Planning Center of Expertise – what they do, who they work with, priorities, and challenges. He also took some time to share some words of wisdom with the class. The final part of the course was an open Q&A session with course instructors, which allowed us to make sure all of our questions had been addressed and answered regarding DDN. Final message from this module: If you find yourself in the DDN world, you just need to call the experts for guidance and they can walk you through all the steps! Our thanks go to Kim Otto for being a gracious host and putting on a very worthwhile course.

Following our two week southern trip, we travel home for two weeks before heading to the Midwest and our Omaha visit. Stay tuned for next month's addition of *Planning Ahead* to see what we learned about hydropower, water supply, endangered species act, and recreation.

Steve Fischer has been with the Corps for 5.5 years and is the Chief, Environmental Resources Section for the Kansas City District (NWK). Prior to that position he served as Water Quality Program Manager for NWK. He is also one of the co-Integrated Planning and Science PM for the Missouri River Recovery Program.

Where are the PAs in their year long journey?
Bold indicates course just completed.

1. Orientation, Team Building, Leadership, and Communication (Deerfield Beach, FL)
2. Planning Fundamentals (Phoenix, AZ)
3. Ecosystem Restoration (New Orleans, LA)
4. Engineering Research and Development Center and Mississippi Valley Division (Vicksburg, MS)
5. Watersheds (San Antonio, TX)
6. Washington, DC Experience
7. Flood Risk Management (Folsom, CA)
8. Inland Navigation (Huntington, WV)
9. Coastal Storm Damage (Philadelphia, PA)
10. **Planning Community of Practice Conference (Orlando, FL)**
11. **Deep Draft Navigation (Mobile, AL)**
12. Endangered Species Act, Hydropower, Recreation, Water Supply
13. Cultural Resources, Tribal Affairs
14. Small Boat Harbors and Intergovernmental Coordination
15. Graduation Ceremony including Presentation of Critical Think Pieces (Washington, DC)

Planning Associates Class of 2010: Cultural Resources and Tribal Affairs and Small Boat Harbors and Intergovernmental Coordination Training Module

by Dave Schulenberg, Buffalo District

The Planning Associates class of 2010 is winding down towards graduation. With 35,000 miles and 16 states in our rearview mirrors via airplane, minivan, bus, ferry, fan boat, water taxi and Duck boat, we are back at home with all of our coursework complete.

August had us travel to St. Louis for the Cultural Resources and Tribal Affairs course then Hawaii for the Small Boat Harbors and Intergovernmental Coordination course.

Mr. John Peukert, St. Louis District, Cultural Resources and Tribal Affairs course owner.

In St. Louis, Mr. John Peukert (Planning Associates Class of 2008) and the teaching team did a great job to outline the Federal role in cultural resources management. Several days were spent reviewing the history and legal basis for Federal participation in curation and collections management, and gaining and understanding of how and where this fits in the planning process.

Tom Green from the Arkansas Archeological Survey provided an overview of the National Historic Preservation Act (NHPA) with specific focus on Section 106, which stipulates the Federal role, provided by John Peukert. Jennifer Richman from Northwestern Division added a review of the Archaeological Resources Protection Act (ARPA) and Jennifer Riordan from the St. Louis District provided an outline of the Native American Graves Protection and Repatriation Act (NAGPRA).

Skipper Scott from the Fort Worth District presented a number of example projects where conflicts had arisen between the definitions of the permit area and the area of potential effect and other lessons learned from Section 106 reviews both from a Regulatory and Planning perspective. Roberta Hayworth from the St. Louis District offered tips for consultation with Tribal representatives.

Our field trip for the week brought the class to the Cahokia Mounds, which was a Mississippian city that was larger than London in 1250 AD, had several circles of red cedar thought to be calendars and dubbed "Woodhenge" and includes the largest prehistoric earthwork in the Americas.

Terry Norris, the Cahokia Mounds Museum Society President, explains Monks Mound outside of St. Louis, MO, the largest prehistoric earthwork in the Americas.

Later in the day we stopped at Mastodon State Park, where Mastodon bones were discovered in direct association with a Clovis spear point in 1979, marking the first solid evidence of the coexistence of people and Pleistocene megafauna. After touring the museum, we each tried using an atlatl, a spear-throwing tool used by Native Americans.

We wrapped up the week with a talk from Josiah Blackeagle Pinkham, a member of the Nez Perce Tribe. He gave our class an overview of the story of Coyote, the Nez Perce creation story, then overlaid the events with the physical landscape of the Nez Perce homeland in the Pacific Northwest. This made it crystal clear why

certain landscapes and places are sacred to Tribes and the importance of Cultural Resource Management and Tribal Consultation.

Steve Fischer from the Kansas City District tries his hand with an atlatl

Josiah Pinkham of the Nez Perce Tribe describing the beliefs and history of his people.

After the outstanding class on Cultural Resources and Tribal Affairs, we then flew on to Hawaii where we spent the week learning about Small Boat Harbors under the direction of Patrick Fitzgerald from the Alaska District (and a member of the Planning Associates Class of 2005)and hosted by Jessica Podoski from the Honolulu District.

We learned that Small Boat Harbor development in an era of limited funding is oftentimes difficult, with project approval coming at times with projects being justified by slim margins. This puts an emphasis on economic analysis to capture benefits accurately as well as focus on partnership with stakeholders who may have been project opponents in the past. A panel with members from USEPA, USFWS, the National Marine Fisheries Service, The Nature Conservancy and Surfrider Foundation offered the points-of-view from their organizations, and challenges and opportunities of working with the Corps.

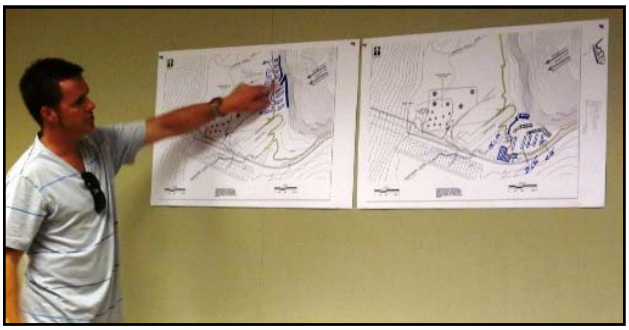
Our field trip for the week brought us to five unique Small Boat Harbors, each with its own engineering, economic and stakeholder challenges. Haleiwa Harbor on the north shore of Oahu has a major shortage of space and a correspondingly long wait list, but little opportunity to expand. Ma'alaea Harbor is studying improvements for safety and capacity on Maui, but has to avoid impacts to the popular surfing spot Ma'alaea Pipeline. We left Maui via ferry from Lahaina Harbor on Maui and arrived at Manele Harbor on Lanai, which is the only public boat harbor on Lanai. Our tour ended at Kaumalapau Harbor on Lanai, which is used for commercial container and oil/gas delivery on a weekly basis and is constructed o f 35-ton Core-Loc concrete units, the largest in the world.

In addition to the economic and stakeholder challenges, we learned that, despite the smallness of the number and types of vessels that use these harbors, the engineering challenges are not small in the least. To combat the huge forces experienced at many of these Small Boat Harbors, especially those in Alaska and Hawaii which bear the brunt of full ocean wave forces, the Corps continues to develop new methods and technologies for these projects. We saw an example of this during our field trip, in the Core-Loc concrete breakwater units used at Kaumalapau Harbor.

Kaumalapau Harbor on Lanai, constructed of 35-ton Core-Loc concrete units, with Dave Schulenberg from the Buffalo District for reference.

A class exercise challenged us to, given a set of existing conditions and constraints, develop project alternatives for a Small Boat Harbor. Each team mapped out their

proposals including breakwater structures, mooring facilities, a deep-water dock , boat launches and parking facilities, with the instructor team comparing the alternatives developed in class to those of the actual study.



Ray Wimbrough of the Jacksonville District presents the results of his team's efforts during the Small Boat Harbor exercise portion of the training class on Small Boat Harbors.

Bret Walters from the Alaska District (and a member of the Planning Associates Class of 2008) but moving to the Memphis District, presented a session on Intergovernmental Coordination, focusing on working with Tribes in Alaska. He offered "car crashes" (lessons learned) from some projects that had major coordination challenges, as well as Do's and Don'ts for Coordination in rural Alaska. Sterling Wong from the Office of Hawaiian Affairs added an overview of the history of Hawaii from a Native Hawaiian point-of-view and offered tips on Coordination in Hawaii.

After twenty weeks on the road and over 15,000 PowerPoint slides, having the last day of Planning Associates coursework be a field trip in the Hawaiian Islands was a great send off to a great year.

Planning Associates Class of 2010 in Hawaii

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15. Graduation Ceremony including Presentation of Critical Think Pieces (Washington, DC)

EMPLOYMENT OPPORTUNITIES

These are but a few of the many available positions advertised on the Army's Civilian Personnel on line website, http://cpol.army.mil and USAJOBS website, http://www.usajobs.gov. Note that clicking on the vacancy announcement number redirects the reader to the job description on the www.usajobs.gov website.

(1) Vacancy Announcement Number: WTKC10CT328565
Opening Date: September 01, 2010 Closing Date: September 30, 2010
Position: GS-13: Project Manager (0101), Project Manager (0401), Project Manager (0801), Landscape Architect (0807), Architect (0808), Physical Scientist (1301)
Salary: $91,141 - $118,481 Annual
Place of Work: US Army Engineer District, Los Angeles, Programs and Project Management Division, Civil Works Branch, Los Angeles, California
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 1

(2) Vacancy Announcement Number: WTHF10473613
Opening Date: September 13, 2010 Closing Date: September 30, 2010
Position: Biologist, GS-0401-13
Salary: $87,306 - $113,496 Annual
Place of Work: US Army Engineer District, Planning, Programs and Project Mgt Division, Planning Branch, Environmental Resources Section, Seattle, WA
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 1

(3) Vacancy Announcement Number: WTHI10506324
Opening Date: September 13, 2010 Closing Date: October 04, 2010
Position: GS-14: Civil Engineer (0810), Architect (0808), General Engineer (0801), Biologist (0401), Fish Biologist (0482), Wildlife Biologist (0486), Economist (0110), Landscape Architect (0807), Environmental Engineer (0819), Physical Scientist (1301), Community Planner (0020), Social Scientist (0101), Archaeologist (0193)
Salary: $96,690 - $125,695 Annual
Place of Work: US Army Engineer District, Omaha, PMD, Civil Works Branch; Duty Location: Omaha, NE or Kansas City, MO
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 1

(4) Vacancy Announcement Number: WTKC10295990R
Opening Date: September 14, 2010 Closing Date: October 04, 2010
Position: GS-13: Watershed Manager (0801), Watershed Manager (0101), Civil Engineer (0810), Biologist (0401), Landscape Architect (0807), Architect (0808)
Salary: $91,141 - $118,481 Annual
Place of Work: US Army Engineer District, Los Angeles, Planning Division, Plan Formulation Branch, Watershed Studies Group, Los Angeles, California
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 1

(5) Vacancy Announcement Number: WTKC10GM542180
Opening Date: September 20, 2010 Closing Date: October 04, 2010
Position: GS-12: Social Scientist Study Manager (0101), Biological Sciences Study Manager (0401), Civil Engineer (0810), Physical Scientist (1301)
Salary: $81,460 - $105,897 Annual
Place of Work: US Army Engineer District, San Francisco, Engineering & Technical Services Div, Planning Br, Plan Formulation Sec, Duty Location: San Francisco, CA
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 1

(6) Vacancy Announcement Number: WTHF10525842
Opening Date: September 27, 2010 Closing Date: October 11, 2010
Position: GS-13: Community Planner (0020), General Engineer (0801), Landscape Architect (0807), Geologist (1350), Physical Scientist (1301), Hydrologist (1315), Economist (0110), Biologist (0401)
Salary: $87,306 - $113,496 Annual
Place of Work: US Army Engineer District, Seattle, Planning, Programs and Project Mgmt Div, Civil Programs and Projects Branch, Seattle, WA
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 1

(7) Vacancy Announcement Number: SWHB10522957
Opening Date: September 17, 2010 Closing Date: October 16, 2010
Position: GS-13: Supervisory Economist (0110), Supervisory Biologist (0401), Supervisory Civil Engineer (0810)
Salary: $81,823 - $106,369 Annual
Place of Work: U.S. Army Engineer District, Little Rock, Planning & Environmental Division; Duty Location: Little Rock, Arkansas
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 01

(8) Vacancy Announcement Number: WTKC10GM542200
Opening Date: September 20, 2010 Closing Date: October 20, 2010
Position: GS-12: Social Scientist Study Manager (0101), Biological Sciences Study Manager (0401), Civil Engineer (0810), Physical Scientist (1301)
Salary: $81,460 - $105,897 Annual
Place of Work: US Army Engineer District, San Francisco, Engineering & Technical Services Div, Planning Br, Plan Formulation Sec, Duty Location: San Francisco, CA
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 3

(9) Vacancy Announcement Number: WTHE10821187OC
Opening Date: March 01, 2010 Closing Date: November 08, 2010
Position: GS-12: General Engineer (0801), Landscape Architect (0807), Architect (0808), Civil Engineer (0810), Environmental Engineer (0819), Mechanical Engineer (0830), Electrical Engineer (0850), Fish Biologist (0482), Wildlife Biologist (0486), Physical Scientist (1301), Community Planner (0020)
Salary: $72,540 - $94,300 Annual
Place of Work: US Army Engineer District, Portland, Planning, Programs & Project Mgmt Div, Planning Branch, Duty Station: Portland, OR
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 1

(10) Vacancy Announcement Number: WTHE10107178OC
Opening Date: March 02, 2010 Closing Date: March 01, 2011
Position: GS-13: General Engineer (0801), Landscape Architect (0807), Architect (0808), Civil Engineer (0810), Environmental Engineer (0819), Mechanical Engineer (0830), Electrical Engineer (0850), Fish Biologist (0482), Wildlife Biologist (0486), Physical Scientist (1301), Community Planner (0020), Biologist (0401), Chemist (1320), Economist (0110), Industrial Engineer (0896)
Salary: $86,260 - $112,136 Annual
Place of Work: US Army Engineer District, Portland, Planning, Programs & Project Mgmt Div, Planning Branch, Duty Station: Portland, OR
Position Status: This is a Permanent position. -- Full Time
Number of Vacancy: 1

PROSPECT TRAINING COURSES

Upcoming USACE sponsored PROSPECT training courses of interest to the members of the Planning CoP include:

PCC1 CIVIL WORKS ORIENTATION

Control Number: 86

February 8—12, 2011 Phoenix, AZ

This course provides the student with a basic understanding of the Corps of Engineers civil works program and the project development process. It is designed for Corps employees who are relatively new to civil works or individuals who require an overall understanding of and the procedural stages involved in the development of civil works projects.

Topics will be presented and discussed relating to the Civil Works process, including: overviews of the Corps missions, programs and organizational structure; legislative and review processes; study and project cost-sharing; program budgeting and funding; environmental compliance and HTRW considerations; public involvement; partnering and cooperation with non-Federal sponsors; and new trends and developments. The student will learn the entire Civil Works process from the problem identification to project implementation. Various individual, group, and class exercises; role-plays of Corps-sponsor meetings; and discussions are used throughout the course to help students understand the process.

Nominees must be involved in or closely support all phases of civil works project development, project planning, project management, or programs management and must be assigned (a) Occupational Series: Selected 0020, 0100, 0300, 0400, 0800, 0900, 1100, and 1300 series or others such as public affairs officers, real estate, or counsel that support the development process; (b) Grade: GS-05 or above. This course is highly recommended as the first training class for new or entry level employees in the CW Planning function.

PCC2 PLANNING PRINCIPLES AND PROCEDURES

Control Number: 77

April 4-8, 2011 New Orleans

This course provides district and division planners with an overview of how Corps of Engineers water resource projects are planned in accordance with current policies and procedures. Upon completion of the course, the student will have a basic understanding of the principles and policies guiding the planning of Corps Civil Works water resources development projects. Policies and procedures are discussed in a series of short presentations by HQUSACE staff and through class participation in small group exercises. Presentations and class exercises focus on case studies designed to illustrate the planning process and application of guidance and policy. The course presents the basic procedures that enable the student to conduct the planning process under today's requirements. The course covers interaction among the district, division, HQUSACE, Army, and the Administration, and includes a session on new directions in planning. The course is conducted in an informal atmosphere to encourage class interaction.

Participants should be currently involved in the planning of civil works water resources development projects. Prior completion of the PROSPECT Course, "PCC1 Civil Works Orientation" is highly recommended. Priority will be given to GS5-GS12 students with less than 3 years of current planning experience.

To attend these courses or to receive additional information about other PROSPECT training courses, please contact the USACE Learning Center at http://pdsc.usace.army.mil.

CONFERENCES

The following is a list of conferences, workshops, and symposia that may be of interest to members of the Planning Community of Practice, as well as other practitioners in field of water resources. Those conferences, workshops and symposia in which the U.S. Army Corps of Engineers has been involved in the organization, sponsorship, or where members of the Corps have been identified as speakers or presenters, are identified in *italics.*

American Shore and Beach Preservation Association "National Coastal Conference"
October 13-15, 2010 Charleston, SC
Additional information: http://www.asbpa.org/conferences/conferences.htm

Linking Science to Management: A Conference and Workshop on the Florida Keys Marine Ecosystem
October 19—22, 2010 Duck Key, FL
Additional information: http://conference.ifas.ufl.edu/floridakeys/index.html

2010 AWRA Annual Water Resources Conference
November 1—4, 2010 Philadelphia, PA
Additional information: http://www.awra.org/meetings/Philadelphia2010/index.shtml

5th National Conference on Coastal and Estuarine Habitat Restoration
November 13-17, 2010 Galveston Island, TX
Additional information: https://www.estuaries.org/conference/

American Society of Civil Engineers, Coasts, Oceans, Ports and Rivers Institute, "2010 Congress"
November 13-17, 2010 Memphis, TN
Additional information: http://content.asce.org/conferences/copri2010/index.html

American Society of Civil Engineers, Environmental and Water Resources Institute
May 22-26, 2011 Palm Spring, CA
Additional information: http://content.asce.org/conferences/ewri2011/

4th National Conference on Ecosystem Restoration
August 1—5, 2011 Baltimore, MD
Additional information: http://www.conference.ifas.ufl.edu/NCER2011/index.html

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CALL FOR ABSTRACTS

Coastal Zone 2011: Winds of Change: Great Lakes, Great Oceans, Great Communities
July 17-21, 2011, Chicago, Illinois

Many factors are influencing change in our coastal, marine, estuarine, and Great Lakes communities. Issues such as the impacts associated with coastal development, conflicting use of resources, altered watersheds, and new threats such as those related to global climate change call for new approaches to ocean and coastal resource management. **Coastal Zone 2011 (CZ11)** will focus on exploring challenges, discussing ways to cooperate on collective issues and resources, sharing tools and information, and learning from the experiences of leaders from across the nation and around the world.

Opportunities are available to organize a special panel session with three to four papers, host a concurrent meeting, submit a presentation or a poster, display an exhibit, provide training and workshops, or become a conference partner. A "Call for Abstracts" has been made. Instructions are available at the Conference website. Abstracts are due **October 8, 2010**.

Please visit the Conference for additional information concerning the conference: http://www.doi.gov/initiatives/CZ11/index.htm.

US Army Corps of Engineers®

PUBLICATIONS

The following is a list of recently published reports, studies, or articles prepared by the Corps of Engineers, other Federal agencies, or other research organizations:

"Climate Change, Water , and Risk: Current Water Demands Are Not Sustainable", July 2010, Natural Resources Defense Council, Available at: http://www.nrdc.org/globalwarming/watersustainability/

"A New Nonmonetary Metric for Indicating Environmental Benefits from Ecosystem Restoration Projects of the U.S. Army Corps of Engineers", by Richard A. Cole, Engineer Research and Development Center, Environmental Laboratory, ERDC/EL TR-10-12. Available at: http://el.erdc.usace.army.mil/elpubs/pdf/trel10-12.pdf

"Murky Waters? Corporate Reporting on Water Risk—A Benching Study of 100 Companies" by Brooke Barton, CERES, February 2010. Available at: http://www.ceres.org/Document.Doc?id=547

"U.S. Army Sustainability Report 2009", May 2010. U.S. Department of the Army.
Available at: http://www.aepi.army.mil/docs/whatsnew/FINALArmySustainabilityReport2010.pdf

"Water, Climate Change and Forests: Watershed Stewardship for a Changing Climate", June 2010, U.S. Forest Service, Pacific Northwest Research Station, General Technical Report PNW-GTR-812.
Available at: http://www.fs.fed.us/pnw/pubs/pnw_gtr812.pdf

"Guidance for Federal Land Management in the Chesapeake Bay Watershed", U.S. Environmental Protection Agency, Available at: http://www.epa.gov/nps/chesbay502/

"A Synthesis of the Science on Forests and Carbon for U.S. Forests", Spring 2010, Ecological Society of America, Report Number 13, Available at: http://esa.org/science_resources/issues/FileEnglish/issue13.pdf

"Quadrennial Defense Review Report", February 2010. U.S. Department of Defense.
Available at: http://www.defense.gov/qdr/

"Reenergizing America's Defense: How the Armed Forces Are Stepping Forward to Combat Climate Change and Improve the U.S. Energy Posture", by The Pew Project on National Security, Energy and Climate, 2010.
Available at: http://pewclimatesec-cdn-remembers.s3.amazonaws.com/172e73107e0952fd86378269bdeb62f6.pdf

"A Scientific Assessment of Alternatives for Reducing Water Management Effects on Threatened and Endangered Fishes in California's Bay Delta", prepared by the National Research Council, Committee on Sustainable Water and Environmental Management in the California Bay Delta, March 2010.
Available at http://www.nap.edu/catalog.php?record_id=12881

"Estimated Use of Water in the United States in 2005", by Joan F. Kenny, Nancy L. Barber, Susan S. Hutson, Kristin S. Linsey, John K. Lovelace, and Molly A. Maupin, U.S. Geological Survey Circular 1344, 2009 Available at: http://pubs.usgs.gov/circ/1344/

"Informing Decisions in a Changing Climate", National Academy of Sciences, National Research Council, Panel on Strategies and Methods for Climate-Related Decision Support, 2009
Available at: http://www.nap.edu/catalog.php?record_id=12626

"Building a Stronger Corps—A Snapshot of How the Corps is Applying Lessons Learned From Katrina", U.S. Army Corps of Engineers, 30 April 2009, Available at:
http://www.mvp.usace.army.mil/docs/USACE_PK_Update_Report_Final.pdf

"Sustainable Water Systems: Step One—Redefining the Nation's Infrastructure Challenge", The Aspen Institute Energy and Environment Program, Available at:
http://www.aspeninstitute.org/sites/default/files/content/docs/pubs/WaterInfrastructure.pdf

HOW TO SUBMIT AN ARTICLE TO *PLANNING AHEAD*

Planning Ahead is designed to foster communication amongst the members of the Planning community of practice within the Corps, with those other members of the Corps family with which planners interact on a daily basis, and with members of the general public outside of the Corps. It is our goal that future editions of the newsletter will include information and perspectives of those members of the planning community on the front lines of the Corps' planning efforts, the District and Division offices. We hope that this newsletter becomes a forum to share your experiences to help the entire planning community learn from one another. We welcome your thoughts, comments, questions, suggestions, success stories, and lessons learned, so that we can share them with the broader community. Submissions should be moderate in length (4-5 paragraphs), except in cases where the article is compelling and circumstances warrant a lengthier treatment of the subject. The article should be prepared as a MS Word document. Pictures accompanying submitted articles are welcome. Pictures must be in JPEG format. Please send articles to Mr. Kenneth E. Lichtman, at Kenneth.e.lichtman@usace.army.mil

The deadline for material to be published in the next issue of *Planning Ahead* is
Wednesday, October 13, 2010

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