



*National Association of
Environmental Professionals
39th Annual NAEP Conference*

Changing Tides and Shifting Sands

Conference Proceedings

*April 7 - 10, 2014
Hilton Bayfront
St. Petersburg, FL*



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Table of Contents

Sponsors.....	4
Exhibitor Listing and Diagram.....	5
Welcome letter from NAEP President, Harold Draper.....	6
Welcome letter from Conference Co-Chairs, Bruce Hasbrouck & Erin Kane.....	8
NAEP Leadership.....	9
2014 Conference Committee.....	10
General Information.....	11
Keynote Speakers.....	12 - 13
President’s Dinner - Wednesday.....	14
National Environmental Excellence Awards.....	15 - 20
Meeting Schedule.....	21
Schedule At A Glance.....	Tab

CONFERENCE PROGRAM

Monday.....	25 - 27
Tuesday	28 - 36
Wednesday.....	37 - 48
Thursday.....	49 - 60
Friday.....	60
Sponsor Information.....	61 – 66
2015 Conference Information.....	Back Cover

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Welcome Letter from NAEP President, Harold Draper

Welcome everyone. We are excited that you have joined us for our 39th Annual Conference: *Changing Tides and Shifting Sands*. The conference will have something for all environmental professionals, including you. This week will be busy, which calls for some advance planning on your part. Take some time to plan your week in St. Petersburg, including both educational events and free time to visit with other environmental professionals. Downtown St. Petersburg is an outstanding venue and location for the conference, a block from the Tampa Bay waterfront and within walking distance to numerous restaurants and attractions. Here are some things to make sure you do while in St. Petersburg.

Monday Professional Education Courses

On Monday, NAEP provides you with the best in professional education opportunities. The Career Development Seminar covers the value of the Certified Environmental Professional credential, new trends in online learning, publishing a peer reviewed article, and the future of environmental careers. There are in-depth training sessions on NAEP's best practice principles project with the Council on Environmental Quality, and endangered species. Unfortunately, it appears that there is no way to go to all three classes, so you have to pick one.

Professional Education Tracks

On Tuesday, Wednesday, and Thursday, the halls of the Hilton Hotel will be busy with everyone attending the education track of their choice. I count 14 tracks, including the premier NEPA training session in the country which proves every year to be an essential update on new developments in the field. However, if you are here primarily for NEPA, please sample the 13 other tracks. As a NEPA professional, you are also usually in charge of the full umbrella of compliance with other laws and regulations. Familiarity with these other laws and regulations will likely provide unexpected opportunities in your career. They are all part of the toolbox needed for the environmental professional. We have a full array of tracks, covering topics you need to know. There are old standbys (brownfields, wetlands, land management, transportation) as well as hot topics (visual resources, cultural resources, sustainability, remediation). Choose wisely and sample as many tracks as you can.

Keynote Speakers and Special All-Conference Sessions

Our keynote speakers in the morning and at lunch will cover emerging trends in transportation project delivery, environmental employment, and the Florida Wildlife Corridor concept. Each of these talks promises to be informative and forward-looking. Plan to attend them all.

On Wednesday night, come to an evening of fun at the Salvador Dalí Museum. As an NAEP conference attendee, you will have the museum to yourself for two hours, so there will be time to view all the galleries. Of course, the gift shop will also be open for the first hour for your souvenir needs.

National Environmental Excellence Awards

These awards recognize noteworthy accomplishments in the environmental field. They are announced during our luncheon and other plenary sessions. When you see an award winner, congratulate them personally and take the opportunity to learn more about their accomplishments.

Welcome Letter from NAEP President (continued)

Thank the Exhibitors and Sponsors

Please visit our exhibitors and find out what they have to offer. When you see a sponsor representative, also thank them. Without them we would not be here. If you feel inspired to support our local beneficiary organization, Tampa Bay Watch, bid on a silent auction item.

Thank the Volunteers

I'd like to thank Bruce Hasbrouck and the conference planning committee for their tireless efforts to make this conference successful. With the help of the Florida Association of Environmental Professionals (FAEP) and the Tampa Bay Chapter (TBAEP), we have a valuable professional education event this year. Please take some time to express your gratitude to the planners who work hard for a year and a half before we get here. It is through the efforts of the conference planners and volunteers that each and every annual conference is the highlight of the year for NAEP.

If you can, thank the track chairs and Monday instructors who brought this event to you for your benefit. Introduce yourself to someone new and to reintroduce yourself to some of your old acquaintances. NAEP needs each of you to continue to make the connections that make us a strong association. Seek me out and tell me your impressions of the conference, we need your feedback to continue to make this the premier conference for the premier environmental association.

Post-Conference

To make the most of the conference, schedule some time within the next month to review the handouts, notes, and proceedings. This is a way to reinforce what you learned, and is another opportunity to realize how the information can assist you in your job. It may be of use to produce a personal trip report, highlighting the lessons that you can take forward and use in the future.

Visit the Real Florida

One of my goals when I go to a new place is to visit a local site of special interest if I can steal some free time. Among the attractions of downtown St. Petersburg are at least six museums, many fine dining establishments, several local parks, and countless shops. A little known downtown bay front site that I enjoy is the Gizella Kopsick Palm Arboretum which has 500 species of palms and cycads from around the world. It's located just north of the historic Vinoy Renaissance hotel, which is worth a visit to view the architecture and exhibits on the rich history of the hotel. A downtown trolley links many of the sites. Further afield are nature preserves and world-famous beaches. The last time I was here I was able to see gopher tortoises and wood storks within the city limits of St. Petersburg. So this is your final goal for this conference: take some time to see the real Florida.



Harold Draper



We would like to begin by saying **Thank You!** to all of our tireless volunteers, committee & track chairs, speakers, sponsors and exhibitors, for making the NAEP 2014 Conference both uniquely Florida, and universally applicable in its content and subject matter. We believe that the *changing tides* of local, State and National regulatory environments are resulting in significant *shifts* in industry, policy and the way in which business is conducted in the environmental industry. We hope that this message is reflected throughout the conference within our fourteen unique tracks that showcase some of the most interesting, cutting edge, and relevant subject material, from leading experts in their fields.

Of course, we really want to **Thank You - our attendees**, for choosing to join us at the 2014 conference in the wonderful City of St. Petersburg, FL. We hope that you walk away from this experience with valuable tools and information that will assist you in making better professional decisions, and having enjoyed the journey thoroughly by partaking in the plentiful conference networking opportunities, and simply by experiencing all this wonderful City has to offer.

Please take a moment to thank our sponsors and to visit our exhibitors, who help to make the conference affordable and for providing this greatly needed support. We also ask that you make an effort to interact with our student volunteers and take the time to provide input and support to students who have participated in our **Student Poster Contest**. It is one of the goals of NAEP and the mission of TBAEP “*To educate and recruit students and young participants into the environmental professional field.*” We are proud of our Student Chapters, and especially want to thank them for their leadership and dedication in facilitating opportunities to help their peers succeed and excel.

There are multiple opportunities to network, including our **Opening Reception** on Monday evening (7th), an **FAEP-hosted Social** on Tuesday (8th), and the **President’s Dinner** at the Salvador Dali Museum on Wednesday night (9th). **TBAEP** is hosting a special **roof-top social** at the Canopy on Thursday the 10th. We encourage you to take advantage of all of these activities, and get to know both the City and the conference attendees in a fun and relaxed environment.

The exhibitor hall is a wonderful place to congregate and see old and new friends. Enjoy, learn, and take away the many ways of maintaining, improving, and protecting our environment, provided throughout this conference for use in your own environmental practice. Welcome to St. Petersburg!

Sincerely,

Bruce Hasbrouck & Erin Kane



NAEP Officers

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Above list is as of March 10, 2014

2014 Conference Committee

Conference Co-Chairs

Bruce Hasbrouck, Faller Davis & Associates, Inc.
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Permanent Conference Committee Chair

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Ron Deverman, HNTB

General Information

Registration

The registration desk is located in the Lobby area of the Hilton conference area.

Registration Hours

Monday, April 7
7:00 am – 5:00 pm

Tuesday, April 8
7:00 am – 5:00 pm

Wednesday, April 9
7:00 am – 5:00 pm

Thursday, April 10
7:00 am – 3:00 pm

Exhibits

Exhibits are located in Lobby II & III.

Exhibitor Set Up
Monday, April 7
8:00 am – 4:30 pm

Exhibitor Tear Down
Thursday, April 10
3:15 pm – midnight

Exhibit Hours

Monday, April 7
5:00 pm – 7:00 pm

Tuesday, April 8
7:00 am – 5:00 pm

Wednesday, April 9
7:00 am – 5:30 pm

Thursday, April 10
7:00 am – 3:15 pm

Credits Available

AICEP certification maintenance credits are available for most of the conference (apply online through your APA account). CEU's have been approved for Best Practice Principles and the Invasive Species training. Sign up at registration for these.

Speaker Registration

All speakers and panel members need to pick up your name badges at the registration desk during registration hours.

Electronic Devices

Please turn off or put in silent mode all cell phones, pagers and PDA's during sessions and lunches.

Internet Access

We are providing free wireless internet access in the meeting space area. Select the wireless site called AVMS Meetings, the user name is NAEP and the password is 2014.

Quiet Space

If you need a quiet area to do some work, HTC 4 is available. And except for Wednesday when the student poster session/judging is taking place, HTC 3 will be set with small tables and chairs for visiting, networking, or other small gatherings.

Conference Attire

Business casual attire is appropriate for all events during the conference. To gain entrance into the Dali Museum, Wednesday evening, you must have the wrist band you were given at registration. Don't forget and leave it in your room.

Keynote Speakers



Barry Schoch
Pennsylvania Department of Transportation

Barry Schoch, P.E., was nominated by Governor Tom Corbett to be Pennsylvania Secretary of Transportation in January 2011. He has over 30 years of experience in the engineering field and has been heavily involved in either consulting, managing or playing a key role in many of the pending or completed transportation projects in Pennsylvania over that time.

For the 15 years prior to becoming Secretary of Transportation, Mr. Schoch worked for McCormick, Taylor & Associates as vice president and manager of their Harrisburg office transportation department. His portfolio ran the gamut from concept planning to finance strategies to project designs. A few of his projects include the Mon-Fayette Expressway in Southwest Pennsylvania; the proposed interchange between the Pennsylvania Turnpike and Interstate 95; the South Central Centre County Transportation Study in Centre County; the I-83 master plan for the Harrisburg region; the widening and reconstruction of U.S. 30 in Lancaster County; and the rebuilding of the interchange of U.S. 15 and Route 581 in Cumberland County. He played key roles in improving PennDOT's approach to context sensitive design and training for environmental quality efforts. He also managed engineering for studies of Mag-Lev in the Washington-Baltimore corridor and was the project director for Pennsylvania's proposed Mag-Lev project from Pittsburgh to Greensburg.

Mr. Schoch previously served as the president of the Pennsylvania Highway Information Association and as the chair of Pennsylvania Consulting Engineers transportation committee, and the Design Professionals Coalition Transportation Committee. He graduated from Penn State University in 1982 with a degree in civil engineering and is a licensed professional engineer.



Ron Hetrick
Allegis Group Services

The Past, Present, and Future of Employment in Environmental Industries

As the U.S. economy evolves, we see situations where labor pools deepen or rapidly disappear, sending pay rates on wild rides as companies try to entice retirees back to work or scramble to assemble a qualified workforce quickly thanks to a new contract or business opportunity. During down years, companies can get a false sense of confidence about their hiring ability while unemployed workers become jaded and go into other sectors. For your company, how confident should you be that the qualified workforce is there? For the employee, is there a bright future for workers in environmental industries? We will dig into the data and see just how secure or anxious you should be.

Keynote Speakers (continued)



Carlton Ward Jr
Carlton Ward Photography

Carlton Ward is a conservation photographer from Tampa, Florida. His passion for nature was born from the Florida landscape, where eight generations of family history have grounded his perspective. He sees natural environments and cultural legacies as the earth's greatest yet most threatened resources.

Carlton is a founding fellow of the International League of Conservation Photographers (iLCP) and created the Legacy Institute for Nature & Culture (LINC), a non-profit organization with the purpose of celebrating and protecting Florida's natural and cultural heritage through art. While completing a Master's degree in Ecology, Carlton wrote *Conservation Photography*, the first thesis on the emerging field.

Carlton's current focus is the Florida Wildlife Corridor – a collaborative vision to connect remaining natural lands, waters, working farms, forests and ranches from the Everglades to Georgia, protecting a functional ecological corridor for the health of people, wildlife and watersheds. “My Florida Wildlife Corridor work was inspired by Florida cowboys and black bears and the shared land they both need to survive,” says Carlton. “So many stories like these are missing from Florida's modern identity. I want people to discover a renewed sense of place for our state.”

In 2012, he co-led the Florida Wildlife Corridor Expedition – a 100-day, 1,000-mile trek that explored the last remaining natural path through the length of the Florida peninsula. The trek began in Everglades National Park in January and reached Okefenokee National Wildlife Refuge in southern Georgia on Earth Day, April 22. In 2013, Carlton released his most recent book, *Florida Wildlife Corridor Expedition*, which combines his stunning photographs with essays and quotes from fellow explorers to bring the story to life in vivid detail. The Florida Wildlife Corridor Expedition story was also released as a national PBS film.

Carlton received the North American Nature Photography Association's 2013 Mission Award, which recognizes outstanding accomplishments by one of its members. He continues his mission to photograph within the Florida Wildlife Corridor, concentrating on private ranches in the Northern Everglades that are candidates for protection through the new Everglades Headwaters National Wildlife Refuge and Conservation Area. The expedition team is also planning a future trek to highlight the importance of a wildlife corridor between the Everglades Headwaters and the Florida panhandle.

President's Dinner – Wednesday



The President's Dinner will be held at the famous [Salvador Dali Museum](#), located within walking distance of the conference hotel. Dinner will be buffet style, to be enjoyed at your leisure, and a cash bar will be available.

Entrance to the President's Dinner is with a wrist band and is included with a full conference registration. Wrist bands will be available for purchase for one day registrants and guests.

During this special event, the museum is open to NAEP registrants and guests only. We will have access to the museum galleries for two full hours and the gift shop will be open during the first hour of the event. In addition to the Salvador Dali display, there is a special exhibit to which we also have access: Warhol: Art. Fame. Morality. This special exhibit showcases more than 100 of Andy Warhol's works including paintings, screen prints, photographs and a selection of Warhol films and screen tests featuring the likes of Salvador Dali and other artists.

Visitors will get the chance to experience "15 minutes of fame" by starring in a screen test video that can be emailed to save and share.

If you received a wristband at registration (full conference or purchased) and find yourself unable to go, please return the wristband to registration and we will donate it to our students and student volunteers.

National Environmental Excellence Award

★ *President's Award* - Wednesday, 11:30 am – 1:00 pm

Project Name: North by Northwest CONNECTOR

Presented to: U.S. Department of Energy, Tillamook County Transportation District, Sunset Transportation Services District, Lincoln County Transit, Benton County Rural Transit, Columbia County Rider North by Northwest Transportation Foundation, David Evans and Associates, Inc., Noble Erickson, Inc., Banner Non-Profits, LLC, M2 Traffic Management, LLC

Accepting the Award: Julie Kay, Operations Supervisor, Lincoln County Transit and Janet Wright, Transit Director for Columbia County Rider

The North by Northwest Connector Project is an innovative partnership between five rural public transit agencies and a private non-profit foundation in northwestern Oregon. The project, which was initially launched through a grant from the US Department of Energy, is the collaborative effort of the five transit agencies to enhance the livability and economic vitality of the communities they serve. This is a landmark project for Oregon and model for other communities and transit providers in the rest of the nation. This project is unique in the breadth of its objectives for inter-agency coordination, branding and marketing transit service in all five counties as a single seamless service, reducing fossil fuel consumption and greenhouse gas emissions, using transit as an asset for economic development, and establishing private-public partnerships for sustainable funding.

★ *Environmental Management Award* - Tuesday 8:00 am - 9:30am

Project Name: GREEN TO THE RESCUE – AIR STATION BORINQUEN RENEWABLE ENERGY

Presented To: Air Station Borinquen and Civil Engineering Unit (CEU) Miami

Capitalizing on the abundance of sunshine throughout the year in Puerto Rico, the Energy Savings Performance Contract (ESPC) harnesses the solar energy and converts it to electricity through the Photo Voltaic systems. Through this contract, Air Station Borinquen entered into the largest photovoltaic endeavor for the Coast Guard and the largest Energy Savings Performance contract from Schneider Electric.

Partnering with US Coast Guard Headquarters officials, the Department of Energy and Schneider Electric, Air Station Borinquen entered into a \$58.8 million dollar contract for the installation of new cool roofs and solar panels on more than 300 Air Station Structures. The project execution was the first of its kind for the Federal Government resulting in a 40% reduction in energy costs equating to a \$1.1 million dollar annual savings over a 23 year performance period. The Energy Savings Performance Contract also included installation of variable refrigerant volume air condition, building automation system upgrades, lighting retrofits, solar window tinting and water conservation measures. More than 300 Photo Voltaic (PV) systems were installed on the facilities producing more than four million kilowatt-hours annually. By reducing energy consumption and developing renewable energy solutions in Puerto Rico, the Coast Guard has met federal mandates, reducing green house gas emissions and stabilizing energy costs.

National Environmental Excellence Awards

★NEPA Excellence Award - Tuesday 8:00 am - 9:30am

Project Name: Burning Man 2012-2016 Special Recreation Permit Environmental Assessment

Presented to: Winnemucca District, Bureau of Land Management, Black Rock City LLC, Aspen Environmental Group

Burning Man is a world famous week-long event in western Nevada that is a combination art festival, social event, and experiment in community living. Held since 1990, Black Rock City LLC applied to the Bureau of Land Management (BLM) for a Special Recreation Permit to continue the event from 2012 to 2016 on portions of the Black Rock Desert National Conservation Area. Aspen Environmental Group assisted the BLM with preparation of an Environmental Assessment using innovative methods to quantify impacts of the event and to mitigate the effects of this large-scale, temporary “city”. In addition to new data collected during the 2011 event, the EA analysis also uses in-depth historical data collected by volunteers and event participants. On July 23, 2013, BLM approved a four-year Special Recreation Permit to host the Burning Man event on the Black Rock Desert through 2016, with a maximum population limit of 68,000 participants for the 2013 event.

★ Public Involvement Award- Tuesday, 8:00am-9:30 am

Project Name: Regional Connector Transit Project

Presented to: Ann Kerman - Metro Community Relations, Dolores Roybal Saltarelli – Metro Planning

Accepting the Award: Ann Kerman - Metro Community Relations, Dolores Roybal Saltarelli – Metro Planning

The Regional Connector Transit Project will allow a seamless "one-seat ride" through downtown Los Angeles, north-south between Azusa and Long Beach, and east-west between East Los Angeles and Santa Monica. This two-mile gap closure in the region’s light rail system will provide continuous through-service spanning 50 miles north to south, and 25 miles east to west, improving access to both local and regional destinations.

The community in the project area, Little Tokyo, is one of only three remaining "Japantowns" in the United States. Having recognized the potential environmental justice concerns and community impacts of the Regional Connector, Metro proactively engaged the Little Tokyo community in a focused and collaborative dialogue during the NEPA process in order to address their concerns. Metro further provided funding to hire a consultant to assist the community in acquiring an in-depth understanding of the NEPA process and, in partnership with area leaders, facilitated a community-led process to develop mitigation measures reflective of community needs. This ongoing work led to the development of the Fully Underground LRT Alternative, a new alternative that not only was acceptable to Little Tokyo stakeholders, but also generated widespread enthusiasm and support for the Regional Connector project.

National Environmental Excellence Awards

★Best Available Technology Award - Tuesday, 11:45am – 1:15pm

Project Name: Smithfield-Farmland Fresh Meat and Packaged Foods Groups-- “From Goals to Riches-- Stewardship, Recycling, and Replacement Bring Us Closer”

Presented to: Casings Water Reduction – Milan Missouri; Meatball Reformulation Reduces Water Pollutants – Arnold, Pennsylvania; Water Quality Hands On Training at Schools – Smithfield, VA; Waste Not, Garden Spot– Crete, NE

Accepting the Award: Susan Murphy, Smithfield-Farmland Corporate Environmental Engineering Manager

Each year, each Smithfield-Farmland plant invests in our future through environmental projects that focus on the sustainability goals that are common for all locations: 10% reduction in water , energy and solid waste to landfills, and a commitment to be a helpful part of the communities in which we work. The casings project in Milan, MO, reduces water usage by filtering and reusing it. The meatball reformulation project in Arnold, PA, was initiated by wastewater challenges from use of a liquid colorant. Instead, they formulated a dry ingredient as a replacement. The Smithfield, VA, location educates hundreds of school children every year about water quality, and oil spill cleanup techniques. The Crete, NE, hog processing facility composts livestock trailer wastes into fertile materials that have been used for community beautification projects, including tree planting on site.

★Conservation Programs Award - Tuesday, 11:45am-1:15 pm

Project Name: Green India – Protect Nature, Protest Pollution

Presented To: Green India Trust, Dr. Chilukoti Murali Krishna

Green India Trust started in 2008 and is projecting awareness to everyone about a cleaner and environment friendly world. Dr. Ch. Murali Krishna developed the concept of “Billion Tree Plantation” aiming to achieve a plantation of one billion trees throughout India. Billion Tree Plantation has their own nurseries and green houses where seedlings are nurtured into plants that can sustain natural growth. The plants are then distributed to various organizations, government and non-government based institutions, to be planted around their premises and surroundings. A key component to this project has been the planting of palm trees around the coastal belt, beach sides and areas prone to flooding to help reduce the damage caused by heavy rain fall and floods. This now covers 30 km along the Eastern Coast of South India.

National Environmental Excellence Awards

***Education Excellence Award - Tuesday, 11:45am-1:15 pm**

Project Name: Susie and Jerome Learn about a Healthy Home – developed by the Healthy Environments for Children Initiative, Department of Extension, University of Connecticut

Presented to: University of Connecticut: text by Joan Bothell and Mary-Margaret Gaudio, illustration and design by Kevin Noonan, animation by Anthony Russello, voiceover direction and editing by Karen Ryker, voices by Briana Maia, Julia Estrada, Colleen Labella, and Adam Schneemann

Accepting the Award: Joan Bothell and Mary-Margaret Gaudio

According to the U.S. Environmental Protection Agency, most people spend more than 90% of their time indoors—much of that time in their own homes. Environmental concerns in the home include indoor air quality, lead poisoning, toxic household products, mold, asthma triggers, tobacco smoke, and pests. A healthy home—one that is clean, dry, and safe, with fresh air, no pests, and no dangerous chemicals, and in good repair—helps to reduce the risks of exposure to environmental health hazards.

The *Susie and Jerome* materials teach children and their adult caregivers (such as parents or guardians, teachers, librarians, and childcare providers) the key principles that make a home healthy, as well as some practical ways to implement these principles. The materials include an illustrated rhyming book, a teacher's guide and children's activity book, and an animated video found at this website (<http://www.youtube.com/watch?v=48XQ6glxQGM>). These materials were developed by the Healthy Environments for Children Initiative (HEC) (www.hec.uconn.edu), in the Department of Extension, University of Connecticut. HEC designs and develops programs and materials in various areas related to children's environmental health.

National Environmental Excellence Awards

****Environmental Stewardship Award*** - Wednesday, 11:30am-1:00 pm

Project Name: Public Building Commission of Chicago Environmental Program

Presented To: Public Building Commission of Chicago, Mayor Rahm Emanuel, Chairman
Erin Lavin Cabonargi, Executive Director

Accepting the Award: LeeAnn Tomas-Foster, Deputy Director for Environment

The Public Building Commission of Chicago's environmental program demonstrates excellence in meeting the challenges posed by environmentally contaminated project sites throughout the City of Chicago and Cook County. PBC's environmental mission goes beyond the remediation of individual project site and supports the environmental and economic health of the larger community as well. With urban development sites that are typically located in areas challenged by industrial contamination, and in neighborhoods suffering from blight, PBC's environmental program serves as a catalyst of positive development and brings vital community anchors into neighborhoods throughout the city.

Two projects to demonstrate PBC's ability to deal with complex environmental concerns are the development of Back of the Yards Campus: Chicago Public School, College Preparatory High School and Chicago Public Library, Branch Library and the remediation of the future Whitney Young Library site.

The Back of the Yards Campus RACR demonstrates the previous environmental site conditions and remedial actions for the site attained by the PBC in accordance with the remedial action plan provided to the Illinois Environmental Protection Agency. It also demonstrates the redevelopment of this former 10-acre brownfield into a new LEED Silver high school with associated athletic field, softball field, landscape play area, tennis courts, raised garden, community library and parking.

The Whitney Young remediation design and Green Remediation Evaluation report demonstrates the "greener" site remediation of a former dry cleaning site with extensive contamination. This report will be used by the USEPA as a pilot for other municipalities to highlight green remediation is possible using available technologies outside of the standard cut/fill methods notoriously used on remediation sites.

National Environmental Excellence Awards

★*Planning Integration Award* – Wednesday, 11:30 am – 1:00 pm

Project Name: Louisiana's Comprehensive Master Plan for a Sustainable Coast

Presented to: Coastal Protection and Restoration Authority

Louisiana's Comprehensive Plan for a Sustainable Coast (2012 Coastal Master Plan) is one of the nation's largest environmental planning efforts that creates a more sustainable Louisiana Coast and enables communities to adapt to a changing landscape. The 2012 Coastal Master Plan has developed a dramatically different approach through its long-term, comprehensive vision for the future. The Master Plan is based on a two-year analysis involving some of the state's best scientists, national and international specialists, as well as feedback from hundreds of local stakeholders and citizens. The state used this analysis to select 109 high performing restoration and protection projects that could deliver measurable benefits to our communities and coastal ecosystem over the coming decades. The plan shows that if these projects were fully funded at a price tag of \$50 billion, we could reduce land loss and increase flood protection to create a more sustainable coast. In the face of devastating coastal erosion and climate change, the plan boldly offers solutions that will preserve our nation's energy and economic security, restore the health of the Gulf region, and create more resilient coastal communities.

Zirzow Student Award

Award Recipient: Kayla Ouellette

School: University of South Florida, Tampa

Kayla Ouellette has been selected as this year's Zirzow Student Award recipient. Kayla is a graduate student at University of South Florida (USF) pursuing a Master's of Science degree in Environmental Science and Policy/ GIS Certificate. She is completing her Master's requirements, and recently defended her thesis: *Ecosystem Services & Sustainable Sugarcane Farming in South Florida*. She was nominated by the Tampa Bay Association of Environmental Professionals (TBAEP) for her work with the student chapter of TBAEP at the University of South Florida. She is the current Treasurer of the TBAEP student chapter at USF. Kayla will be recognized for this award at the Conference Luncheon on Wednesday, April 9th. Kayla is a new NAEP student member and looks forward to attending the technical sessions and meeting our members. Please introduce yourself to Kayla and congratulate her!

Meeting Schedule

Meeting Name	Day	Time	Room
ABCEP	Monday	1 pm – 5 pm	Boardroom
Conference Committee (PCC & 2015)	Wednesday	8 am – 9 am	St Petersburg I
Policy (NEPA and Transportation)	Wednesday	8 am – 9 am	St Petersburg II
Chapters Committee	Wednesday	8 am – 9 am	Williams/ Demens
NAEP Board of Directors*	Friday	8 am – 1 pm	Harbor View

If you are not part of a committee or working group, these meeting are an excellent opportunity to see what they do and get involved.

* If you wish to attend the NAEP Board of Directors meetings, please contact Tim Bower at naep@bowermanagementservices.com or 856-283-7816 for information.

Monday, April 7					
8:00 am – 11:30 am (Break from 10 – 10:15 in Lobby III)	How to Become a Certified Environmental Professional – <i>no charge</i> Williams & Demens	Best Practice Principles for Environmental Assessments – <i>additional fee</i> St Petersburg I	The Interrelation Between Listed Species and Invasive Species – <i>additional fee</i> Harbor View		
Noon – 1:15 pm	New Options for Professional Development: Demonstrating Online Learning Methods (pick up lunch in St. Petersburg II and return here, drinks will be here) Williams & Demens				
1:15 pm – 1:30 pm	Break				ABCEP – meeting starts at 1:00 pm
1:30 pm – 5:00 pm (Break from 2:45 to 3:00 in the Lobby III)	Publishing a Peer Reviewed Article – <i>no charge</i> Williams & Demens	Best Practice Principles for Environmental Assessments St Petersburg I	The Interrelation Between Listed Species and Invasive Species Harbor View		Boardroom
5:00 pm – 7:00 pm	Conference Opens: Networking Reception – Lobby II & III				
Tuesday, April 8					
7:00 am – 8:00 am	Continental Breakfast – Lobby II & III				
8:00 am – 9:30 am	Welcome, Kramer Award, Fellow Award, 3 Environmental Excellence Awards, Keynote: Barry Schoch, PA DOT Grand Bay Ballroom				
9:30 am – 9:45 am	Break - Lobby II & III				
9:45 am – 11:15 am	Session #1 VISUAL Energy and Visual Resource Assessment Williams & Demens	Session #2 CULTURAL RESOURCES Railroads and the NEPA and NHPA Section 106 Process St Petersburg I	Session #3 WATER RESOURCES Water Resource Planning for Sustainability Harbor View/Pier	Session #4 REMEDIATION Environmental Obligation & Enforcement St Petersburg II	Session #5 TRANSPORTATION Light Rail and Intermodal Efficiency St Petersburg III
11:45 am – 1:15 pm	Lunch: Roberts Scholarship, 3 Environmental Excellence Awards, Ron Hetrick, Allegis Group Services Grand Bay Ballroom				
1:45 pm – 3:15 pm	Session #6 VISUAL Visual Impact Thresholds and Visibility Williams & Demens	Session #7 NEPA NEPA Case Law and Policy Update St Petersburg I	Session #8 WATER RESOURCES Innovations in Water Resource Management Harbor View/Pier	Session #9 REMEDIATION Regulatory Review & Changes St Petersburg II	Session #10 GEOLOGY Alternative Geologic Tools & Methods St Petersburg III
3:15 pm – 3:30 pm	Break - Lobby II & III				
3:30 pm – 5:00 pm	Session #11 LAND MANAGEMENT Energy Production and Development on Public Lands Williams & Demens	Session #12 NEPA Current NEPA Issues St Petersburg I	Session #13 WATER RESOURCES Weathering Water Quality Regulations Harbor View/Pier	Session #14 REMEDIATION Munitions & Explosives in Groundwater St Petersburg II	Session #15 TRANSPORTATION Social Media and the NEPA Process St Petersburg III

Wednesday, April 9					
8:00 am – 9:30 am	Continental Breakfast Lobby II & III Student Poster Presentations and Judging – HTC 3				
8:00 am – 9:00 am	Chapters Committee Williams & Demens	Conference Committees (PCC & 2015) St Petersburg I	Committee Meeting Harbor View/Pier	Environmental Policy (NEPA & Transportation) Committee Meeting St Petersburg II	Committee Meeting St Petersburg III
9:00 am – 9:30 am	Break - Lobby II & III				
9:30 am – 11:00 am	Session #16 BROWNFIELDS Sustainable Brownfield Redevelopment- Connections and Metrics Williams & Demens	Session #17 CULTURAL RESOURCES Cultural Resources in Transportation and other Linear Corridors St Petersburg I	Session #18 WILDLIFE The Charismatic Florida Scrub-Jay Harbor View/Pier	Session #19 REMEDICATION Innovative Approaches St Petersburg II	Session #20 TRANSPORTATION A Cross-Disciplinary Approach to the Health & Transportation Design & Planning Process St Petersburg III
11:30 am – 1:00 pm	Lunch: Zirzow Award, 3 Environmental Excellence Awards, Keynote: Carlton Ward, Conservation Photographer Grand Bay Ballroom				
1:30 pm – 3:00 pm	Session #21 SUSTAINABILITY Environmental Compliance Tools Williams & Demens	Session #22 NEPA Night Sky Impact Analysis St Petersburg I	Session #23 WILDLIFE Listings and Accommodations Harbor View/Pier	Session #24 BROWNFIELDS Brownfields and Remediation Redevelopment: Approaches and Successes St Petersburg II	Session #25 TRANSPORTATION Every Day Counts: Expediting Projects St Petersburg III
3:15 pm – 3:30 pm	Break - Lobby II & III				
3:30 pm – 5:00 pm	Session #26 SUSTAINABILITY Envision Sustainability Ratings, Fisheries, and Riparian Habitat Williams & Demens	Session #27 CLIMATE Changes in Climate Impact Assessment St Petersburg I	Session #28 WETLANDS Wetland Restoration and Conservation Harbor View/Pier	Session #29 BROWNFIELDS Brownfield Case Studies- From BIG \$\$\$ to Small Toddlers St Petersburg II	Session #30 TRANSPORTATION NEPA and Tolling St Petersburg III
5:00 pm – 6:00 pm	Committee Meeting Williams & Demens	Committee Meeting St Petersburg I	Committee Meeting Harbor View/Pier	Committee Meeting St Petersburg II	Committee Meeting St Petersburg III
6:30 pm – 9:30 pm	President's Dinner at the Dali Museum – Don't forget your wristband!				

Thursday, April 10					
7:30 am – 8:30 am	Breakfast - Lobby II & III				
8:30 am – 10:00 am	NAEP Membership Meeting, Service Awards Grand Bay Ballroom				
10:00 am – 10:15 am	Break – Lobby II & III, Silent Auction ends				
10:15 am – 11:45 am	Session #31 SUSTAINABILITY Intelligent Sustainability Williams & Demens	Session #32 NEPA NEPA Best Practices St Petersburg I	Session #33 WETLANDS Mitigation and Ecosystem Banking Harbor View/Pier	Session #34 REMEDICATION Remedial Approaches St Petersburg II	Session #35 COASTAL Restoring and Mitigating Coastal Habitats St Petersburg III
11:45 am – 12:00 pm	Break - Lobby II & III				
12:00 pm – 1:15 pm	HTL #1 SUSTAINABILITY Replenishing the Urban Forest Williams & Demens	HTL #2 NEPA Upper Great Plains Wind Energy EIS St Petersburg I	HTL #3 WETLANDS Kissimmee River Restoration Harbor View/Pier	HTL #4 REMEDICATION Florida Oil and Gas Activities St Petersburg II	HTL #5 COASTAL Deepwater Horizon St Petersburg III
1:15 pm – 1:30 pm	Break - Lobby II & III				
1:30 pm – 3:00 pm	Session #36 SUSTAINABILITY Building Relationships for Local Environmental Protection Efforts Williams & Demens	Session #37 CULTURAL RESOURCES Successfully Addressing Your Need to Comply with Section 106/NEPA St Petersburg I	Session #38 WETLANDS Wetland Management Harbor View/Pier	Session #39 WATER RESOURCES Tampa Bay Water Desalinization – Challenges & Lessons Learned St Petersburg II	Session #40 CLIMATE Climate Change Resiliency St Petersburg III
3:00 pm – 3:15 pm	Break - Lobby II & III				
3:15 pm – 4:45 pm	Session #41 SUSTAINABILITY Organizational Sustainability Williams & Demens	Session #42 NEPA Noise Impact Analysis St Petersburg I	Session #43 WATER RESOURCES Implementing Numeric Water Quality Criteria Harbor View/Pier	Session #44 REMEDICATION Advanced Technologies St Petersburg II	Session #45 COASTAL City of Fort Pierce Island Breakwater Creation St Petersburg III
Friday, April 11					
8:00 am – 1:00 pm	NAEP Board of Directors Meeting Harbor View				

Monday, April 7

7:00 am – 5:00 pm

Coffee/Registration Open – Lobby II

TRAINING 8: 00 am – 5:00 pm (lunch included)

Best Practice Principles for Environmental Assessments

(CEU approved, sign up at Registration)

Room: St Petersburg I

This course will introduce students to the concept of Best Practice Principles for Environmental Assessments (BPPs for EAs), describe the methodology used to create the BPPs for EAs, and describe the seven BPPs for EAs that were created during the CEQ NEPA Pilot Project. The Agenda includes workshops analyzing and drafting Purpose and Need statements. Other sessions include discussions of the Proposed Action and Alternatives, EA Topics and Contents, Determination of Significance and Applicability of 40 C.F.R. § 1502.22, Public Involvement, Cumulative Effects Assessment and Management, and Regulatory Consultation and Coordination. In addition, a structured panel with representatives from the Council on Environmental Quality, senior Federal agency officials, and senior NEPA practitioners will address the topic of "Improving Environmental Assessments."

Instructors and Panelists:

Horst Greczmiel, CEQ

Ron Deverman, HNTB

P.E. Hudson, DON OGC

Karen Johnson, CEP

Ronald Lamb, CEP, NAEP NEPA Practice

Stephen Pyle, CEP, HDR

The Interrelation Between Listed Species and Invasive Species

(CEU approved, sign up at Registration)

Room: Harbor View

For many of us who work in the biological and ecological fields, the treatment of state and federally listed threatened and endangered species (listed species) is usually separated from the investigations into the quantification and eradication of invasive species. Even the definition of an invasive species can be a source of disagreement. Like weeds, the wrong species in the wrong habitat is a threat to everything around it, especially to many threatened or endangered species clinging to existence in small, scattered pockets of native habitat surrounded by cleared or impaired habitats. This training session will describe the most up to date research and findings concerning endangered species and how they have been affected by the introduction of invasive species.

Peyton Doub will speak on the fundamentals of the Endangered Species Act (ESA) and invasive species management to lay a technical foundation for the following presentations. He will also speak briefly about the Section 7 consultation process and a means to include management of invasive species.

Monday, April 7

TRAINING 8: 00 am – 5:00 pm (lunch included)

The Interrelation Between Listed Species and Invasive Species (continued)

Room: Harbor View

Art Roybal will introduce the idea of the Invasion Curve and how the USFWS is dealing with invasive species. He will discuss the issues presently being faced in South Florida and the management steps being taken to control these introduced species. He will also look at the potential bio-controls being employed for invasives.

Jeff Selby will look at the perceived and observed effects of invasive freshwater mollusks, with a look particularly at the experiences in the Southeastern US. We will have him back to discuss the recently recognized problem with the Lionfish Invasion into the Atlantic and Caribbean oceans and the potential management strategies.

Kris Thoenke will address the coastal and near shore environment dealing with several listed species and how they are being impacted by invasive species and others that do not belong.

Shirley Denton will speak about Federal and State Listed plant species in Florida and how invasives are interacting with them. In addition to direct competition, many listed species are impacted by secondary effects of invasives ranging from changes in fire regime, changes to soil environments, consumption, and disease. Some of the major problem invasives are faunal.

Instructors:

Paul B. Looney, CEP, CSE, PWS, Volkert,

Peyton Doub, PWS, CEP – US Nuclear Regulatory Commission

Art Roybal – US Fish and Wildlife Service

Jeff Selby – AST Environmental Group

Career Development

Room: Williams/Demens

ABCEP will start off the training discussing **How to Become a Certified Environmental Professional (CEP)**. In this session you will learn about ABCEP and what it means to be a CEP, the benefits of this certification, and there will be a detailed overview of the application and review process.

Instructors:

Don Deis, Atkins

Kris W. Thoenke, Ph.D., CEP, Coastal Engineering Consultants

Elizabeth R. Johnson, Orange Co. Environmental Protection

Shirley Denton, Cardno ENTRIX

Monday, April 7

TRAINING 8: 00 am – 5:00 pm (lunch included)

Lunch will include a presentation on **New Options for Professional Development: Demonstrating Online Learning Methods** given by representatives from American Public University. This session will demonstrate the online learning platform, including how lectures, assignments, and multi-media are used in this learning environment, giving you a glimpse of the “how” of online learning. You will also hear from two APUS professors who will share their experiences about teaching and benefits of learning in the e-classroom.

Instructors:

Carol Pollio, Ph.D., American Public University System

Kris W. Thoemke, Ph.D., CEP, APU and Coastal Engineering Consultants, Inc. (CEC)

David Walker, American Public University

In the afternoon DePaul University will be providing training on **Publishing a Peer Reviewed Article**.

Instructor:

Dan Carroll, DePaul University

The afternoon will finish with the 9th Annual **Environmental Careers Seminar**. Learn from top employers on what it takes to land your dream job in environmental, sustainability, and natural resources career fields. The Careers Seminar will help students, aspiring environmental professionals, and career changers to learn what education, personal attributes, training, specialized experience and inside tips you need to secure a career that makes a difference! You’ll hear directly from professionals and recruiters from diverse environmental employers. Learn about current job opportunities. Some of our panelists may be looking to hire someone like you at this April 7th afternoon session!

Instructors:

Moderator: **John Esson**, Environmental Career Center

Peggy DeFay, Peace Corps

David Grachen, Federal Highway Administration

Michael Hendrix, Atkins Global

Helene Merkel, Marstel-Day

Stephen Tonjes, Florida Department of Transportation

OTHER 1: 00 pm – 5:00 pm

ABCEP Meeting 1:00 pm – 5:00 pm

Room: Boardroom

5:00 pm – 7:00 pm

Networking Mixer/Exhibits Open

Room: Lobby II & III

Join us for this networking opportunity to kick off the conference. It will be a great opportunity to connect with old friends and make new contacts. There will be a cash bar and hors d’oeuvres available.

Tuesday, April 8

7:00 am – 5:00 pm

Registration/Exhibits/Posters – Lobby II & III

Continental Breakfast – Lobby II & III from 7am – 8 am

7:00 am – 5:00 pm

Poster Presentations - Posters will be on display Tuesday through Thursday. Wednesday morning from 8:00 am to 9:30 am, poster authors will be on hand to discuss their projects. Student posters (see page 36) will be displayed and judged Wednesday morning.

Hosing Chang, FDA: *Considerations of Environmental Effects of Cigarettes*

Donna Cline: *USF Health Center for Advanced Medical Learning and Simulation (CAMLs) Site Rehabilitation*

Don Deis, Atkins: *Accelerating recovery after the Deepwater Horizon Oil Spill: Response of the Macroinvertebrate Communities to Shoreline Oiling Effects*

Jon Docs, City of Tampa Water Department: *Advances On The Analytical Methodology For Detection Of Hormones In Drinking And River Water By Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry*

Don Duke, Florida Gulf Coast University: *Site-Specific Numeric Criteria for Dissolved Oxygen in South Florida: Beyond the Tyranny of the Central Tendency*

William Falls, American InterContinental University: *Sustainable Aquaponics: Multi-Disciplinary Tool for Education, Food, and Research*

Brian Files & Amy L. Swiecichowski, Parsons: *Effective Stakeholder Communications for National Environmental Policy Act Studies*

Nicolas Frederick, HDR, Inc.: *Rebuilding the Environment in the Wake of Disaster: An Environmental Compliance Review*

Cynthia Grizzle, RS&H: *Cooperative Invasive Species Management Areas Sow the Seeds of Change*

Brock Hoegh, HNTB: *Georgia Multimodal Passenger Terminal (MMPT): Integrating NEPA and Master Planning*

Johan Liebens, University of West Florida: *PCBs and PCDD/Fs in a historically polluted estuary along the Gulf of Mexico*

William Moody, Geo-Cleanse International: *A Novel and Sustainable “Combined Oxidant” In-Situ Remediation Approach for Brownfield Redevelopment in New Jersey*

Wafik Nosier, Egyptian Modern Center: *To Dam or Not to Damn*

Maria Spiridonova, Krasnoyarsk Rail Ways University: *Lead Ions Concentration in the Ground Air of Akademgorodok District in the Krasnoyarsk City*

Amy L. Swiecichowski & Brian Files, Parsons: *It Takes More Than Science and Engineering!*

,Benefits of Effective Program Management in Ecosystem Restoration

Karen Warsaw, Transportation Public Health Link: *A Life Course Perspective of Chronic Disease and the Impact of Surface Transportation*

Glenn Wittman, US Department of Veterans Affairs: *NEPA Environmental Impact Analyses & Challenges Facing the Department of Veterans Affairs Medical Center in New Orleans, Louisiana, Post-Hurricane Katrina*

Stephanie Oslick, Parsons Brinckerhoff: *A Tale of Two Federal NEPA Lead Agencies in One State: Data Need Requirements for Purpose & Need and Range of Alternatives*

Tuesday, April 8

8:00 am – 9:30 am

Room: Grand Bay Ballroom

Opening Remarks – **Harold Draper**, NAEP President

TBAEP – **Erin Kane**, President

FAEP – **Mary Gutierrez**, President

Kramer Award – **Don Deis**, ABCEP President

Fellows Award – **Audrey Binder**

NAEP National Environmental Excellence Award Presentations:

***Environmental Management Award:** Air Station Borinquen and Civil Engineering Unit (CEU) Miami

***NEPA Excellence Award:** Burning Man 2012-2016 Special Recreation Permit Environmental Assessment

***Public Involvement/Partnership Award:** Regional Connector Transit Project



Keynote Speaker: Mr. Barry Schoch, Pennsylvania Department of Transportation

Barry Schoch, P.E., was nominated by Governor Tom Corbett to be Pennsylvania Secretary of Transportation in January 2011. He has over 30 years of experience in the engineering field and has been heavily involved in either consulting, managing or playing a key role in many of the pending or completed transportation projects in Pennsylvania over that time.

Tuesday, April 8

9:45 am – 11:15 am

Visual Resources

Session 1: Energy and Visual Resource Assessment

Room: Williams & Demens

This session will address coastal and energy development issues with particular emphasis on landscape and seascape impacts. Topics will include nationwide considerations by NOAA on siting coastal structures like docks and piers; plus jurisdictional and guidance for siting large renewable energy facilities like on shore and offshore wind farms plus other new renewable technologies. Finally the last presentation will cover landscape impacts and participatory process for natural gas hydraulic fracturing in the Marcellus shale region of Pennsylvania.

Ruth Kelty, NOAA's National Ocean Service: *Visual Impact Assessment of Docks and Piers - Theory and Practice*

Richard Smardon, SUNY College of Environmental Science and Forestry: *Whose jurisdiction is this? Renewable Energy Development and Landscape Conflict*

Brian Orland, Pennsylvania State University: *Show me: Engaging citizens in planning for shale gas development*

Cultural Resources

Session 2: Railroads and the NEPA and NHPA Section 106 Process

Room: St. Petersburg I

This session looks at how compliance with cultural resources law has played out in the context of two very different railroad projects. The first paper addresses how the Federal Railroads Administration (FRA) has responded to recent Council on Environmental Quality (CEQ) and Advisory Council on Historic Preservation (ACHP) joint guidance about combining the NEPA and NHPA processes during environmental review. Specifically as pertains to the NEC FUTURE project in the Northeast, the FRA utilized the checklist provided in the CEQ-ACHP Handbook, considered the timing of the four-step Section 106 process in the context of the Tier 1 NEPA process for the NEC FUTURE program, and took into account other considerations before making a decision. Currently, NEC FUTURE is planning coordination of the four-step Section 106 process with the NHPA compliance process, rather than substitution. The second paper discusses a creative mitigation project for the effects of a Florida Department of Transportation (FDOT) undertaking on the 1860s-era Florida Railway that included historic architectural assessment survey of the entire 155-mile railway corridor across six counties.

Michael Arbuthnot, Search Inc.: *We've Been Working on the Railroad: A Creative Approach to Historic Architectural Assessment of 155 Miles of Florida Railway*

Amishi Castelli, USDOT Volpe Center: *Coordination versus Substitution in the NEPA and NHPA Section 106 processes: A Case Study*

Tuesday, April 8

9:45 am – 11:15 am

Water Resources

Session 3: Water Resource Planning for Sustainability

Room: Harbor View & Pier

Water supply planning for sustainability is one of the most important tasks facing communities today. This session will cover integrated water resource planning with a focus on sustainable practices and alternatives. The topics will include balancing competing needs, such as water supply, power generation, environmental protection and flood control through the use of innovative tools such as real-time simulation modeling tools, mitigation banking credits and alternative supply options.

Lindsay Cross, Tampa Bay Estuary Program: *Watershed master plan for freshwater wetlands will improve coordination of wetland science, policy and management: A case study from Tampa Bay, FL*

John Moynier, Dewberry: *Real Time Simulation Watershed Modeling for Water Supply Planning*

Doug Yowell, Duke Energy: *Alternative Water Supply Opportunities in the Electric Utility Industry.*

Remediation

Session 4: Environmental Obligation & Enforcement

Room: St. Petersburg II

Are Environmental Obligations Dischargeable in Bankruptcy? Attend to gain an understanding of environmental enforcement and how to avoid being subject to enforcement actions. This session will also explore if British Petroleum (BP) were to file Chapter 11 Bankruptcy, would they be able to discharge the billions in environmental obligations associated with the Gulf of Mexico oil spill, some say yes... To expand even further on how parties are brought to the table, discussions will include an anatomy of a dry cleaner remediation lawsuit that reaches back to the 1930's. This action has caused severe financial ruin which appears to outpace the seven figure cleanup estimates provided for the site. Ideas for improvement to the entire rubric will be provided.

Howard Fox, Fowler White Burnett, PA: *The Current State of Environmental Enforcement with a Focus on Florida*

Herman Kalfen & Greg Garrison, Kalfen Law Corporation: *Anatomy of a Dry Cleaner Remediation Lawsuit - Bringing the Parties to the Table*

Jackie Gardina, Vermont Law School: *Are Environmental Obligations Dischargeable in Bankruptcy?*

Transportation

Session 5: Light Rail and Intermodal Efficiency

Room: St. Petersburg III

The expansion of the greater Seattle area's light rail system is causing concerns of where to store and service the additional trains. This presentation will look at the unique ways these concerns are being addressed in the EIS. In addition, an overview of the Tampa Gateway Rail project that enhanced the Port of Tampa's intermodal efficiency will be presented highlighting the public private partnership.

Kent Hale, Sound Transit: *Light Rail, TOD, and Maintenance Bases - The Good, the Bad, and the Ugly*

Rebecca Valone, Tampa Bay Port Authority: *Gateway Rail*

Tuesday, April 8

11:45 am – 1:15 pm

Lunch

Room: Grand Bay Ballroom

Roberts Scholarship – Gary Kelman

NAEP National Environmental Excellence Award Presentations:

***Best Available Technology Award:** Smithfield-Farmland Fresh Meat and Packaged Foods Groups--
“From Goals to Riches--Stewardship, Recycling, and Replacement Bring Us Closer”

***Conservation Programs Award:** Green India – Protect Nature, Protest Pollution

***Education Excellence Award:** Susie and Jerome Learn about a Healthy Home – developed by the Healthy Environments for Children Initiative, Department of Extension, University of Connecticut

Keynote Speaker: Ron Hetrick, *Allegis Group Services*



As the U.S. economy evolves, we see situations where labor pools deepen or rapidly disappear sending pay rates on wild rides as companies try to entice retirees back to work or scramble to assemble a qualified workforce quickly thanks to a new contract or business opportunity. During down years, companies can get a false sense of confidence about their hiring ability while unemployed workers become jaded and go into other sectors. For your company, how confident should you be that the qualified workforce is there? For the employee, is there a bright future for workers in environmental industries? We will dig into the data and see just how secure or anxious you should be.

Tuesday, April 8

1:45 pm – 3:15 pm

Visual Resources

Session 6: Visual Impact Thresholds and Visibility

Room: Williams & Demens

This session will address visual impact issues associated with large-scale renewable energy development and transmission. Topics will include: criteria-indicator-thresholds for visual impact assessment; regional mitigation for onsite visual resources impact by the USDI Bureau of Land Management; and electric transmission visibility and visual contrast thresholds for western landscapes.

James Palmer, Scenic Quality Consultants: *A Criteria-Indicator-Threshold Framework for Visual Impact Assessment*

John McCarty, Bureau of Land Management: *Where and How do Visual Resources fit into the Regional Mitigation of Onsite Natural Resource Impacts?*

Robert Sullivan, Argonne National Laboratory: *Electric Transmission Visibility and Visual Contrast Threshold Distances in Western Landscapes*

NEPA

Session 7: NEPA Case Law and Policy Update

Room: St. Petersburg I

This session will provide an overview of key NEPA court decisions from 2013 that have implications for how NEPA is practiced, and will also provide an overview of recent key NEPA-related developments at the White House Council on Environmental Quality (CEQ).

Moderator: **Nicholas Yost**, Dentons LLP

Lucinda Low Swartz, Lucinda Low Swartz, Esq: *Recent NEPA Cases (2013)*

Michael Smith, AECOM: *2013 NEPA Cumulative Impacts Case Law*

Horst Greczmiel, Council on Environmental Quality: *CEQ Annual NEPA Update*

Water Resources

Session 8: Innovations in Water Resource Management

Room: Harbor View & Pier

Water resource management is often the forgotten aspect of environmental planning. Typically, management of these resources is left to overlapping jurisdictions that often have multiple or even competing interests and mandates. This session will focus on real-life case studies that showcase innovative solutions to water resource management challenges. These include ecosystem protection and restoration, public uses such as water supply and transportation, and land use planning issues like water quality and stormwater management.

Nicholas Albergo, Conestoga-Rovers & Associates: *The State of Water Resources around the World and Lessons/Opportunities for U.S. Environmental Professionals*

Andrew Der, Andrew T Der & Associates LLC: *Balancing Wetland and Stream Preservation with Stormwater Management: A Case Study*

Michael Piskur, Council of Great Lakes Governors: *Innovation in Water Resources Management in the Great Lakes-St. Lawrence River Basin*

Tuesday, April 8

1:45 pm – 3:15 pm

Remediation

Session 9: Regulatory Review & Changes

Room: St. Petersburg II

An ever moving target, regulatory rule making continuously evolves as technology and science advances. This session will touch upon risk based corrective actions; Engineering and Institutional Controls; and Vapor Intrusion and Vapor Encroachment, as it is related to the revised ASTM International E1527-13 Standard of Practice for Environmental Site Assessments. As these applications are implemented, a consideration for ensuring protectiveness must be considered. Long-term Stewardship (LTS) approaches have been implemented nationally across the regulatory community. Best Management Practices (BMPs), shortcomings, and areas requiring additional focus/improvement will be discussed.

Laurel Lockett, Carlton Fields: *What's New with 62-780, FAC, closure using RBCA, and FDEP's Institutional Controls Procedure Guidance?*

Gordon Walters, Conestoga-Rovers & Associates Inc.: *Vapor Intrusion and ASTM 1527-13*

Carol Henry, HSW Engineering, Inc.: *Long Term Stewardship of EC/ICs*

Sara Rasmussen, US EPA: *Long Term Stewardship of EC/ICs*

Geology

Session 10: Alternative Geologic Tools & Methods

Room: St. Petersburg III

Understanding the geologic environment is crucial to help expedite project completion, keep your budget in check, and protect all involved stakeholders. In the Geology Track, we'll hear from experts that will highlight these points by applying alternative techniques to complex remediation sites. Topics include how incorporating geophysical methods can help characterize site conditions, and why, when it comes to stakeholders, it is important to have a full understanding of the project site geology and hydrology.

Jorgen Bergstrom, GEL Geophysics, LLC: *Mitigating Challenges with Geophysics at Complex Sites*

Ann Clarke, Silicon Valley Mediation Group: *Avoiding Fractious Relationships through the Use of Mediation and Partnership Facilitation during Fracking Project Review and Implementation*

Mike Wightman, GeoView, Inc.: *Improving Site Characterization Studies Through the Appropriate Application of Surficial Geophysical Technologies*

Tuesday, April 8

3:30 pm – 5:00 pm

Land Management

Session 11: Energy Production and Development on Public Lands

Room: Williams & Demens

This session will explore issues and challenges associated with energy production and development on public lands. The first presentation will explore a new system of U.S. domestic energy production and remuneration. The speaker will present the various aspects of this new system including its internal/external checks and balances, production rules, profit distribution mechanisms, and domestic and geopolitical ramifications. The second presentation focuses on solar development on Bureau of Land Management (BLM) lands and their commitment to monitoring and adaptive management. Specifically, long-term monitoring will be discussed including strategies to assess impacts on air quality, cultural, ecological, hydrologic, acoustic, socioeconomic, and visual resources. Finally, the last presentation will explore offsite mitigation strategies for energy development projects where impacts are unavoidable. Among the offsite mitigation strategies that will be presented include long-term protection of habitat or wetlands away from the impacted area; payment to a fund that contributes to multiple mitigation efforts within the region; and purchase of credits from existing conservation or mitigation banks.

Richard Brandlin, Largely Green Consulting: *Power to the People: Energy Superiority, Environmental Stewardship and Private Property Rights in the 21st Century*

Konnie Wescott, Argonne National Laboratory: *Strategies for Monitoring and Adaptive Management of Solar Energy Development on Public Lands*

Heidi Hartmann, Argonne National Laboratory: *Framing the Mitigation of Environmental Impacts from Solar Energy Development on Public Lands in a Regional Context*

NEPA

Session 12: Current NEPA Issues

Room: St. Petersburg I

This session will cover current issues in NEPA compliance, practice and management. Topics covered will include: new strategies for complying with NEPA in emergency situations; how the concept of “significance” is applied by different agencies in the NEPA process; and achieving a better understanding of the “adverse effects that cannot be avoided” and the “unresolved conflicts concerning alternative uses of available resources” provisions of NEPA.

Moderator: **Brock Hoegh**, HNTB

Brian Kennedy, AECOM: *Emergency Environmental Compliance: Best Management Practices and Lessons Learned from Road Repair Projects following Colorado Flooding*

Nancy Van Dyke, The Louis Berger Group: *How Significant is your Significant Other? Differences in Agency Approaches to the "S" Word in NEPA*

Owen Schmidt, Owen L Schmidt, LLC: *Adverse, unresolved and unavoidable*

Tuesday, April 8

3:30 pm – 5:00 pm

Water Resources

Session 13: Weathering Water Quality Regulations

Room: Harbor View & Pier

Protecting the quality of our water supplies is just as important as ensuring adequate quantity. However, increasingly rigorous water quality requirements and regulations have left local jurisdictions facing extreme challenges when trying to comply with the regulations and meet the needs of their community. This session will focus on implementation of innovative best management practices and system improvements that address stormwater management and other water quality issues.

Jennifer Brunty, Southwest Florida Water Management District: *Water Quality Improvements in the Shell, Prairie and Joshua Creek Watersheds of Southwest Florida Through Stakeholder Involvement, Cost-Share Programs and a Reasonable Assurance Plan*

Frank Dirrigl, Jr., University of Texas-Pan American: *Evaluating Stormwater Open-Canal Structural Best Management Practices for Water Quality in South Texas*

Dianne Hughes, Martin County Board of County Commissioners: *A County Stormwater and Water Quality Needs Assessment: How much is that BMAP in the window?*

Remediation

Session 14: Munitions & Explosives in Groundwater

Room: St. Petersburg II

There may be as many as 1 million acres of potential Munitions and Explosives of Concern (MEC) – contaminated underwater and wetland areas within the United States alone. This session will discuss the complex approaches required to manage MEC underwater sites. Considerations will encompass the detection and discrimination components of underwater investigations, physical removal, and in-place disposal. Remedy performance evaluation and management in groundwater will be presented regarding optimization actions and decisions based on statistical, reproducible performance evaluation methodology.

Ryan Fitzpatrick & Holly Nelson, Arcadis: *Remedy Performance Evaluation and Management: Flexible Pump & Treat/Natural Attenuation for Explosives Constituents in Groundwater*

Doug Ralston, USA Environmental Inc.: *Underwater MEC Investigation and Response*

Transportation

Session 15: Social Media and the NEPA Process

Room: St. Petersburg III

This session will explore how social media tools used in combination with other forms of public outreach can enhance the intent of NEPA's public involvement programs. Results of a recent National Cooperative Highway Research Program (NCHRP) study will describe the effectiveness of web-based tools and social media in the public involvements process.

Shane Peck, Parson Brinckerhoff: *Potential Use of Social Media in the NEPA Process*

Wednesday, April 9

7:00 am – 5:00 pm

Registration/Exhibits Open – Lobby II & III

8:00 am – 9:30 am

Continental Breakfast – Lobby III and HTC3

Student Poster Presentations – Student posters will be displayed and judged.

S. Michelle Hoffman & Morgan Colacone, USF, Tampa: *Golf Course Ponds: Urban Oases for Waterbirds?*

Emma Lopez & Laura Rankin, USF, Tampa: *Study of Bioretention Systems for Nitrogen Removal Under Field Conditions*

Lance Croft, USF, Tampa: *Nearshore Surveys*

Jorge Calabria, USF, Tampa: *Performance of AnMBR Permeate as Nutrient Source for Hydroponic Applications*

Jason Baybutt, USF, St. Petersburg: *Incorporating Spatial and Temporal Variability of Land Use Change in Marine Protected Areas*

Sara Watson, USF, Tampa: *Assessing the Impacts of Unrestricted Pesticide Use in Small-Scale Agriculture on Water Quality and Human Health and Ecological Implications in an Indigenous Village in Rural Panama*

Brad Akers, USF, Tampa: *Lead (Pb) Contamination of Water Drawn From Pitcher Pumps in Eastern Madagascar*

Tricia Wilbur, USF, Tampa: *Composting Latrines in Panama: Use and the Perceptions of Human Excreta as a Fertilizer*

Ivy Drexler, USF, Tampa: *A Passive Membrane Bioreactor for Cultivating Microalgae in Wastewater*

Laura Rodriguez-Gonzalez, USF, Tampa: *Degradation of Taste and Odor Compounds GSM and MIB Using TiO₂-UV Reactor: Application for Recirculating Aquaculture Systems*

Kira Barrera, USF, St. Petersburg: *Reconstruction of palaeotempestological Record from Sinkhole Sediments in the Chassahowitzka National Wildlife Refuge, Florida*

Veronica Aponte Morales, USF, Tampa: *Use of chabazite to overcome nitrification inhibition during treatment of high ammonium strength wastewater*

Trina Halfhide, USF, Tampa: *Indigenous Algal Growth on Municipal Sludge Centrate and a Simple Irradiance-Based Model for Predicting Biomass Production in the System*

Rachel Beck, Eckerd College: *Analysis of Ecovillages as Model Sustainable Communities*

Steven Douglas, USF, St. Pete: *Modeling of groundwater contamination potential from Septic Tanks and Golf Courses: An integrated Geospatial Approach*

Adib Amini, USF, Tampa: *Sustainable Energy and Nutrient Recovery from Swine Waste*

Ushang Desai, USF, Tampa: *Managing Public Health Risks Using Air Monitoring at a Former Manufactured Gas Plant (MGP) Site*

Melissa Butcher, USF, Tampa: *Diffuse Release of Nutrients From Residential Lawn Management*

Wednesday, April 9

8:00 am – 9:00 am

Chapters Committee

Room: Williams & Demens

Policy Committee (includes NEPA and Transportation)

Room: St. Petersburg II

Conference Committee (includes 2015 and Permanent Conference Committee)

Room: St. Petersburg I

9:30 am – 11:00 am

Brownfields

Session 16: Sustainable Brownfield Redevelopment – Connections and Metrics

Room: Williams & Demens

This Brownfield session will include two speakers that have experience with very large Brownfield projects. Lee Harrop will talk about the Atlanta Beltline, the most comprehensive revitalization effort ever undertaken in the City of Atlanta and among the largest, most wide-ranging urban redevelopment and mobility projects currently underway in the U.S. Once just an idea in the imagination of a master's degree student at Georgia Tech frustrated with the lack of transportation alternative in Atlanta, this 22-mile rails to trails project is an inspiration to many communities throughout the U.S. Monte Hillman will focus on emerging market-based metrics for sustainability at Brownfield redevelopment sites including building energy use and carbon emissions, occupant water use, and Next Generation Stormwater metrics. Attendees will learn strategies to measure a variety of sustainability factors learned during the Saint Paul Port Authority's redevelopment of 3M's former world headquarters.

Lee Harrop, Atlanta BeltLine Inc.: *The Atlanta BeltLine - Creating Greenspaces from Brownfields to Spur Redevelopment*

Monte Hilleman, Saint Paul Port Authority: *Sustainability Metrics for Brownfield Redevelopment*

Cultural Resources

Session 17: Cultural Resources in Transportation and other Linear Corridors

Room: St. Petersburg I

This session looks at how cultural resources concerns affect the environmental process in 4 different transportation or linear-corridor projects. One of the papers addresses the challenges, successes, and failures of the California High-Speed Rail Section 106 process, including initial inventory and evaluation work, development of the Programmatic Agreement, and the implementation phase. Another paper discusses the goals, methods, approach, and results of cultural resources investigations within the context of the ongoing program of complying with FERC's requirements for gas pipelines, specifically, in this case, Transco's Virginia Southside Expansion Project, a proposed 98-mile gas pipeline that extends across five counties in southern Virginia. A third presentation looks first at how the Florida Department of Transportation now includes evaluating environmental and cultural resources issues for more "minor" types of projects such as trails, sidewalks, and bike lanes, and second at how historic resource types and significance are "shifting" from not just the typical historic building, district, or bridge to also including designed landscapes and entertainment/recreation type resources, linear resources (e.g., railroad corridors, canals, and historic roads), and resources that are just now 50 years old (built in the 1960s). Finally, the last paper addresses how the Tampa Interstate Study Section 106 Mitigation Implementation process enhanced rather than detracted from the Ybor City National Landmark District.

Ben Resnick, GAI Consultants: *Section 106 Compliance and the Virginia Southside Expansion Project*

Rebecca Spain Schwarz, Atkins: *Changing Projects and Shifting Resources*

Elaine Illes, IPI and **Ken Hardin**, Janus Research: *Implementation of the Tampa Interstate Study Historic Mitigation: an example of how the Transportation Project Enhanced the Ybor City Historic Landmark District*

Wildlife

Session 18: The Charismatic Florida Scrub-Jay. How a Public-Private Partnership Reduced the Extinction Risk for the M4 Metapopulation in West Central Florida - Panel

Room: Harbor View & Pier

This session will illustrate the collaboration of local, State, and federal agencies, a phosphate mining company, ecological consultants, and other local contractors, in their effort to assist in the recovery of the Florida Scrub-Jay on public and private lands. The project includes habitat restoration and management, species translocation and monitoring, and data collection and analysis. The session will demonstrate how the partners' participation in restoration, ongoing land management, and the translocation effort, served to kick-start the increase and stabilization of the regional scrub-jay population.

Panelists:

Vivienne Handy, Quest Ecology Inc.

David Gordon, Quest Ecology Inc.

Todd Mecklenborg, USFWS

Sandra Patrick, Mosaic

Max Dersch, Manatee County

Wednesday, April 9

9:30 am – 11:00 am

Remediation

Session 19: Innovative Approaches

Room: St. Petersburg II

Case studies will be offered to encompass innovative approaches to contaminated sites. Case histories will detail how Lean Six Sigma tools were applied to determine remedy selection resulting in validated cost savings of \$1.4M along with other tangible results. Fast tracking of remediation on a transportation construction project through the use of injectable polymer grout barriers will provide lessons learned and the various challenges associated with managing environmental impacts during fast-pace roadway projects. Diversely, the challenges and complexities associated with remedial strategies associated with groundwater remediation associated with coal ash landfills will be discussed and realistic remedial strategies presented.

Sean Rome, Tetra Tech: *Groundwater Remediation Strategies for Coal Ash Landfills and Ash Ponds*

Timothy Harman, Handex Consulting & Remediation, LLC: *Fast-Tracked Remediation*

Lisbeth House, Lockheed Martin: *Case Study: Learn how Lockheed Martin used Lean and Six Sigma Tools to Select a Groundwater Remedy, Control Costs and Complete Cleanup Ahead of Schedule*

Andy Lawn, HSW Engineering, Inc. & **Michael Orcino**, 3E Consultants, Inc.: *Case Study: Learn how Lockheed Martin used Lean and Six Sigma Tools to Select a Groundwater Remedy, Control Costs and Complete Cleanup Ahead of Schedule*

Wednesday, April 9

9:30 am – 11:00 am

Transportation

Session 20: A Cross-Disciplinary Approach to Integrating Health into the Transportation Infrastructure Design & Development Process *A Shift in Culture...*- Panel

Room: St. Petersburg III

Transportation has become a vital component to a people in terms of accessing health care, education, employment, entertainment, social support networks, and overall well-being. Decisions regarding the design, planning and development of a transportation infrastructure project; whether it is a complete street, an Interstate or non-Interstate highway, a public-private partnership toll facility, or an intermodal facility connection; all result in changes to social, political, economic and environmental elements of sustainability and quality of life. Therefore, as part of the nation's transportation system, each project reflects a multilevel, multi-dimensional process impacting the health of an affected community. The Transportation Public Health Link (TPH Link) cross-disciplinary team will present four interactive sessions that will describe the application of health as a component of the transportation infrastructure design and planning process. The emphasis will be on implementing practical solutions through mutual communication, capacity building, and sustainable change. To this end, a cultural shift can occur based on an evidence-based methodology in which challenges become opportunities.

Panelists:

Moderator: **Karyn Warsow**, TPH Link Founder & Executive Director

Ron Deverman, HNTB Corporation: *Health Impacts and Transportation Decision-Making: Environmental Nexus*

Shane Peck, Parsons Brinckerhoff: *Project Communications: Reaching New Audiences with New Tools*

Pamela Yonkin, HDR, Inc: *Sustainable Return on Investment: The Economic, Social, and Environmental Elements of a Transportation Infrastructure Project*

Stephen Mayer, PhD, PE, Parsons Corporation: *Transportation Financing & Community Sustainability: Pulling the Pieces Together*

Wednesday, April 9

11:30 am – 1:00 pm

Lunch

Room: Grand Bay Ballroom

Zirzow Award – Audrey Binder

2015 Conference – Dennis Peters

NAEP National Environmental Excellence Award Presentations:

***Environmental Stewardship Award:** Public Building Commission of Chicago Environmental Program

***Planning Integration Award:** Louisiana’s Comprehensive Master Plan for a Sustainable Coast

***President’s Award:** North by Northwest CONNECTOR



Keynote Speaker: Carlton Ward Jr
Carlton Ward Photography

Carlton Ward is a conservation photographer from Tampa. His passion for nature was born from the Florida landscape, where eight generations of family history have grounded his perspective. He sees natural environments and cultural legacies as the earth’s greatest yet most threatened resources.

1:30 pm – 3:00 pm

Sustainability

Session 21: Environmental Compliance Tools

Room: Williams & Demens

Environmental compliance tools play an important role in maintaining worker and environmental protections. Maintaining current compliance manuals and education about changing standards are key tools in the compliance and sustainability tool boxes. This session will be a panel discussion on the benefits of an environmental compliance manual for the Catalina Solar Energy project or other large scale projects. The compliance manual for the Catalina Solar Energy project outlines approximately 100 mitigation measures (MMs) to be followed by all project personnel throughout the expected 30-year span of the project. Marie Campbell, Roberta Thomas, Chris Mynk and Jeff Childers will discuss how the environmental compliance section of the operations manual for the Catalina Solar Energy Project provides an innovative approach to compliance methodology and allows integration of decision making with regulatory processes. Additionally the section functions to protect natural resources through MMs, maintain compliance, outline stakeholder engagement, and ensure continued production of renewable energy. Paul Osley will then provide information on the important changes to the hazardous communication standards. Learn how the new Global Harmonization Standard (GHS) changes will affect you and your business/facility with respect to the new Chemical Hazard Classifications, Labeling and Safety Data Sheets.

Panelists:

Marie Campbell, Sapphos Environmental

Roberta Thomas, Sapphos Environmental

Paul Osley, Chastain-Skillman, Inc.

NEPA

Session 22: Night Sky Impact Analysis - Panel

Room: St. Petersburg I

This panel session will focus on assessing night sky impacts in NEPA analyses. Naturally dark night skies have degenerated significantly in the last few decades. Increased industrialization, increased commercialization and shifting social expectations have led to great increases of anthropogenic light and light pollution. This increase in light, in turn, impacts the human and natural environments. Typically, in NEPA and other environmental documents, night skies are discussed with visual impacts if they are included at all. This session will demonstrate why night skies and the night time photic environment should be included more often and independently. Anthropogenic lighting influences more than nighttime vistas; it also impacts astronomy, night time recreation, cultural resources, wildlife and the intrinsic photic environment.

Panelists:

Lochen Wood, National Park Service

Frank Turnia, National Park Service

Wildlife

Session 23: Listings and Accommodations

Room: Harbor View & Pier

This session will introduce participants to the regulatory listing process for endangered species both at the state and federal levels. It will investigate the scientific and political aspects of the process. Participants will then be exposed to how public transportation can be affected by these listed species as well as how that wildlife is affected by the transportation project itself. Planning for listed species protection on a large road project is explored. Finally participants will understand how wildlife interactions with air transportation can have dire consequences for people and wildlife and how those effects can be mitigated.

Stephen Tonjes, FDOT: *Murphy's Law of Wildlife Crossings*

Art Wade, Chastain-Skillman, Inc.: *Listed Species Protection: Understanding the Listing Process*

Amy Johnson & Sarah Brammell, ERS Environmental: *Balancing Wildlife Hazard Concerns and Natural Resource Management at Airports*

Brownfields

Session 24: Brownfields and Remediation Redevelopment: Approaches and Successes - Panel

Room: St. Petersburg II

This Brownfield Session will include a panel presentation on Approaches and Successes by Mr. Frank L. Hearne, Ms. Elizabeth Bannister, Mr. Steve Morton and Ms. Mary Yeargan. The presentation will include project success stories and cover the transfer of environmental risk and regulatory tools used to speed remediation and closure approvals. Coming from different states, each of the panelists has a unique perspective on the key to unlocking brownfield properties and turning them in to shining examples of redevelopment projects in America's cities.

Panelists:

Frank Hearne, Mechanik Nuccio Hearne & Wester, PA

Elizabeth Bannister, Marsh USA, Inc.

Steve Morton, Moltz, Morton, & Glenn, LLP

Mary Yeargan, FDEP, Southwest District Director

Wednesday, April 9

1:30 pm – 3:00 pm

Transportation

Session 25: Every Day Counts: Expediting Projects - Panel

Room: St. Petersburg III

This panel will examine the federal, state, and local perspective of recent developments to streamline the environmental review process for transportation projects. The Illiana Corridor EIS project, a 55 mile long proposed new interstate in Illinois and Indiana, will be used to explain how the USDOT's Every Day Counts initiatives are being used and their effectiveness.

Panelists:

Gerald Solomon, Federal Highway Administration

William Malley, Perkins Coie

Steven Ott, Parsons Brinckerhoff

Stacey Woodson, HR Green

3:30 pm – 5:00 pm

Sustainability

Session 26: Envision Sustainability Ratings, Fisheries, and Riparian Habitat

Room: Williams & Demens

The ENVISION rating system developed by the Institute for Sustainable Infrastructure provides a method to evaluate infrastructure projects based on the effects of the project on quality of life, resource allocation, the natural world and climate and risk as well as the leadership of the project including engagement of stakeholders. Carrie Barton and Doug Dietrich will focus on how Envision and National Environmental Policy Act (NEPA) share common goals. NEPA can serve as a valuable source for project documentation for the Envision rating system, and, conversely, Envision can support—and perhaps reinvigorate—the stated purpose of NEPA.. Mona Eigbrett will provide process details and documentation lessons learned describing how HDR used the Envision Infrastructure Rating System to assess the broad range of sustainable attributes included in design and construction of the William Jack Hernandez Sport Fish Hatchery in Anchorage, Alaska. Roy Mann will look at how American communities and the professions in service to their planning, design, and caretaking have over the past several decades made distinct advances in reforming design and construction standards and concepts to assure what we now commonly call sustainability, with respect to both structures and the sites on which these are placed.

Carrie Barton & Doug Dietrich, Burns & McDonnell: *The Envision Sustainable Infrastructure Rating System: A Complement to NEPA*

Mona Eigbrett, HDR: *As Good as Gold: How HDR landed the First-Ever Envision Infrastructure Rating System Award for the William Jack Hernandez Sport Fish Hatchery in Anchorage*

Roy Mann, The Rivers Studio LLC: *Towards a New and Higher Sustainability: Riparian Healing & Eco-Building on the New Green Waterfront*

Wednesday, April 9

3:30 pm – 5:00 pm

Climate

Session 27: Changes in Climate Impact Assessment

Room: St. Petersburg I

This session reports recent examples of progress being made in assessing the most important environmental issue of our time: the impacts of climate change. Attendees will learn the latest conditions reported by scientists and will discover the degree to which climate change has already had impacts at example sites around the world. A new screening tool will be presented that will help planners assess the vulnerability of their communities to this environmental threat. To directly connect session attendees with the seriousness and pervasiveness of this topic, an assessment of potential impacts and strategies for alleviating them will be applied to the region immediately surrounding the conference venue.

Anthony Kola-Olusanya, Osun State University: *The influence of Climate Change on Flooding disasters in West Africa: The Ghana and Nigeria Context*

Michael Booth, Jacobs: *NOAA Climate Change Vulnerability Screening Tool*

Edward Sherwood, Tampa Bay Estuary Program: *Potential Impacts and Management Implications of Climate Change on Tampa Bay Estuary Critical Coastal Habitats*

Wetlands

Session 28: Wetland Restoration and Conservation

Room: Harbor View & Pier

Inter-agency coordination, public private partnerships and international coordination are a critical part of the wetland restoration and conservation equation. This session will include topics on the Ramsar Convention, the role of wetland science, how agencies can successfully work together to design, permit and implement restoration projects, and the benefits of public private partnerships including the providing of cost effective restoration of regionally significant ecosystems.

Royal Gardner, Ramsar Scientific and Technical Review Panel: *The Ramsar Convention: A Global Perspective on Wetland Conservation*

Cynthia Grizzle, Reynolds, Smith & Hills Inc.: *Interagency Coordination Restores the Wetlands of the Green Swamp*

Richard Anderson, Little Pine Island Wetland Mitigation Bank: *The Little Pine Island Wetland Restoration & Mitigation Bank Public/Private Success Story*

Wednesday, April 9

3:30 pm – 5:00 pm

Brownfields

Session 29: Brownfield Case Studies – From BIG \$\$ to Small Toddlers

Room: St. Petersburg II

This Brownfield session includes two presentations that come from very different project experiences. Mr. Craig Divine will provide an exciting tale about two success stories; one in Lakewood CO and one in Downey CA. The Lakewood project, a Phoenix Award winner, is about a 1960s vintage mall with PCE contamination. The Downey project was a former NASA Industrial Plant that was used over a 70-year period for aircraft manufacturing, research, production and the assembly of rockets and missiles, including the Apollo and Space Shuttle Programs. Come hear how this plant was turned into a retail center and hospital for the local community. Ms. Teri Hasbrouck will share her experience utilizing Brownfield grant health monitoring funding in a new and exciting way to improve the lives of young children in two of Florida's poorest communities. The Asthma-Friendly Childcare and School Program has been proven to identify, manage and control asthma triggers in the childcare setting, thereby reducing asthma attacks in our most vulnerable population.

Craig Divine, Arcadis: *Accelerated Groundwater Remediation Completed with Cost, Schedule, and Performance Certainty at Two Redevelopment Projects*

Teri Hasbrouck, Environmental Consulting & Technology Inc.: *Creative Brownfield Health Monitoring Changing Kid's Lives*

Transportation

Session 30: NEPA and Tolling - Panel

Room: St. Petersburg III

This panel will discuss current experience with tolling trends and other facets of NEPA evaluation of tolling. Tolloed projects present challenging issues for NEPA professionals to consider including the effects of tolling on minority and low-income populations, effects of economic growth patterns, traffic diversion, defining the elements of tolled alternatives, as well as others.

Panelists:

David Mattern, Parametrix

Bruce Brown, PPR

William Malley, Perkins Coie

Wednesday, April 9

5:00 pm – 6:00 pm

Committee meetings (check the large schedule near registration for updates)

6:30 pm – 9:30 pm



The President's Dinner will be held at the famous [Salvador Dali Museum](#), located within walking distance of the conference hotel. Dinner will be buffet style, to be enjoyed at your leisure, and a cash bar will be available. Entrance to the President's Dinner is by wrist band and is included with a full conference registration. Wrist bands will be available for purchase for one day registrants and guests.

During this special event, the museum is open to NAEP registrants and guests only. We will have access to the museum galleries for two full hours, and the gift shop will be open during the first hour of the event. In addition to the Salvador Dali display, there is a special exhibit to which we also have access: *Warhol: Art. Fame. Morality*. This special exhibit showcases more than 100 of Andy Warhol's works including paintings, screen prints, photographs and a selection of Warhol films and screen tests featuring the likes of Salvador Dali and other artists.

Visitors will get the chance to experience "15 minutes of fame" by starring in a screen test video that can be emailed to save and share.

Don't forget to bring your wristband!

Thursday, April 10

7:00 am – 3:00 pm

Registration/Exhibits/Poster Presentations – Lobby II & III

7:30 am – 8:30 am

Breakfast – Lobby II & III

8:30 am – 10:00 am

Membership Meeting, Service Awards – Grand Bay Ballroom

10:15 am – 11:45 am

Sustainability

Session 31: Intelligent Sustainability

Room: Williams & Demens

Environmental professionals are implementing sustainability across industries to work toward a Greener future. This sessions looks at how sustainability principles are being used in a number of disciplines. Enhanced environmental intelligence collection, analysis, and predictive capabilities are key to surviving rapidly evolving natural conditions. John Munro will talk about the role of data and environmental intelligence in detecting small changes, anomalies, and exceptions that enable adaption and the emergence and evolution of the environmental intelligence discipline, identifying key capabilities and theoretical and technological gaps that must be filled in order for this field to realize its full potential. Brandon Johnson and William Lias will discuss how "green" principles are proving effective at reducing the cost and environmental impacts associated with cleanup activities for commercial and industrial facilities with focus on recent guidance offered by EPA and private industry groups that provide the necessary framework for quantifying environmental footprints associated with cleanup activities, and present useful tools and methodologies for optimizing cleanups with sustainability concepts. Don Duke investigates the overall approach to flood control by municipalities in the Susquehanna River basin of central Pennsylvania, identifying the approaches and the specific instruments implemented to evaluate advantages and disadvantages of the various approaches and institutional driving forces and barriers to improved flood mitigation.

John Munro, University of Maryland: *The Growing Importance of Environmental Intelligence in a Dynamic World*

William Lais & Brandon Johnson, Golder Associates: *Incorporating Sustainability Concepts into Site Cleanup*

Don Duke, Florida Gulf Coast University: *Flood Response Policies on the Susquehanna River, PA: Fragmentation and Cross-Purposes at Three Levels of Government*

Thursday, April 10

10:15 am –11:45 am

NEPA

Session 32: NEPA Best Practices

Room: St. Petersburg I

This session will focus on best practices in NEPA compliance. Topics covered will include: application of compensatory mitigation strategies; development of new methods to classify the significance of impacts; better integrating the NEPA process with other federal, state and local permitting processes; and integration of new strategies for mitigation, including landscape-level and off-site mitigation approaches.

Moderator: **Brian Kennedy**, AECOM

Judith Lee, Environmental Planning Strategies and **Robert Cunningham**, Pathway Consulting Services:
Straight Talk about Mitigation of Project Effects

Peyton Doub, US NRC: *Use of Graduated Significance Levels in NEPA Documents*

Myles Pocta, MAP Environmental & **David Bradshaw**, Nexsen: *LESNER BRIDGE: Successful Integration of NEPA and Wetlands / Water Quality Permitting*

Shannon Stewart, ESA: *New and Improved Mitigation Policies and Practices for Infrastructure*

Wetlands

Session 33: Mitigation and Ecosystem Banking - Panel

Room: Harbor View & Pier

This session will address mitigation and ecosystem restoration opportunities and the challenges faced from implementing mitigation or developing a mitigation bank. Perspectives will be provided from the public sector (FDEP) and private sector (consultant and owner/operator). The discussion will not only cover classic wetland mitigation banking, but also include streams, listed species, and NRDA banks as well. The focus will not only be of rules in Florida, but also a general discussion on regional differences and some case studies.

Panelists:

Kristin Bennett, Tetra Tech

David Dickson, Cardno ENTRIX

Mark Thomasson, FDEP

10:15 am –11:45 am

Remediation

Session 34: Remedial Approaches

Room: St. Petersburg II

Remedial enhancement through a treatment train, or the coupling of treatment technologies, and the application of a conceptual approach, such as enhanced attenuation, optimizes the overall site remedy based upon site specific conditions. A decision process based on flexibility to the evolving nature of the source and plume as remediation proceeds should be established and should take into consideration the utilization of enhanced attenuation measures, while maintaining a concurrent conceptual site model. Increasingly, identifying applicable remedies requires evaluating vapor intrusion to ascertain and inclusion or screening distance which is defined as the vertical separation distance from the contamination source. Results from of an empirical database study published by EPA will be presented. The study was established to better understand attenuation of vapors and to support more efficient approaches for site screening.

Ian Hers, Golder Associates: *Vapor Intrusion Screening at Petroleum UST Sites*

Steve Folsom, HSW Engineering, Inc.: *Enhanced Attenuation: A Brief Overview and Review of Implementation Measures*

William Moody, Geo-Cleanse International, Inc.: *Coupling Oxidative and Reductive Treatment Technologies for Integrated Site Remediation*

Coastal

Session 35: Restoring and Mitigating Coastal Habitats

Room: St. Petersburg III

This session will provide case studies of permitting, mitigating and restoration in the coastal environment.

Lauren Floyd, Coastal Planning & Engineering: *Challenges in Determining and Mitigating the Impacts from Beach Nourishment Projects to Coastal Marine Habitats*

Don Deis, Atkins: *The Sebastian Inlet Flood Tidal Shoal Monitoring Program*

Ryan Horstman, Stantec Consulting Services: *Perico Preserve Coastal Restoration: Fallow Fields to Habitat Mosaic*

Thursday, April 10

**12:00 pm – 1:15 pm Hot Topic Lunch – Grand Bay Ballroom
(Buffet opens at 11:45; Pick up your lunch and go to one of the breakouts. Drinks will be in each
breakout room; Sessions begin at 12:15 pm)**

Sustainability

Hot Topic Lunch #1: Replenishing the Urban Forest

Room: Williams & Demens

Faced with an aging urban forest, Temple Terrace pursued a variety of replanting initiatives with a goal of creating a means for constant tree replenishment without overburdening City resources. Even with ambitious large scale installations on public lands, Arbor Day seedling giveaways, strict replacement penalties for unauthorized removals or substandard tree work and regular offers to plant trees purchased by homeowners, the number of new tree additions fell short of offsetting the annual losses attributed to age, storms, disease and development. The Adopt-A-Tree program maximizes superior elements of previous undertakings and best stands to stabilize and better diversify the City's leafy resources.

Joe Gross, City of Temple Terrace: *Replenishing the Urban Forest - Temple Terrace's Adopt-A-Tree Program*

NEPA

Hot Topic Lunch #2: Upper Great Plains Wind Energy EIS - Panel

Room: St. Petersburg I

This Hot Topic Lunch will focus on several new Executive Orders and agency regulations and guidance that direct Federal agencies to expedite their review of permits or to take other actions that will increase the production, transmission, or conservation of energy while maintaining safety, public health, and environmental protections. Wind energy development is likely to be a major component in meeting these mandates. To better address environmental concerns associated with increased development of wind energy production, Western Area Power Administration (Western) and the U.S. Fish and Wildlife Service (Service) are considering the implementation of environmental evaluation procedures and mitigation strategies for wind energy development projects. Western and the Service have interests in streamlining their procedures for conducting environmental reviews of wind energy applications by implementing evaluation procedures and identifying measures to address potential environmental impacts associated with wind energy projects in the Upper Great Plains area. As joint lead agencies, Western and the Service have prepared a PEIS to (1) assess the potential environmental impacts associated with wind energy projects within the UGP Region that may connect to Western's transmission system or that may propose placement of project elements on grassland or wetland easements managed by the Service; and (2) evaluate how environmental impacts would differ under alternative sets of environmental evaluation procedures, best management practices (BMPs), and mitigation measures that the agencies would request project developers to implement (as appropriate for specific wind energy projects). This presentation will provide an overview of this PEIS.

Panelists:

Matt Marsh, Western Area Power Administration

Lou Hanebury, Western Area Power Administration

John Hayse, Argonne National Laboratory

Thursday, April 10

**12:00 pm – 1:15 pm Hot Topic Lunch – Grand Bay Ballroom
(Buffet opens at 11:45; Pick up your lunch and go to one of the breakouts. Drinks will be in each
breakout room; Sessions begin at 12:15 pm)**

Wetlands

Hot Topic Lunch #3: Kissimmee River Restoration
Room: Harbor View & Pier

This session will provide an overview of an ecosystem restoration project. The presentation will focus on the Kissimmee River and provide a brief history and then discuss the use of engineering principles to meet ecological goals and documented ecological responses to the restoration activities.

Lawrence Glenn, South Florida Water Management District: *Kissimmee River Restoration: Tracking Success of Large-Scale River Restoration*

Remediation

Hot Topic Lunch #4: Florida Oil and Gas Activities - panel
Room: St. Petersburg II

Current trends in South Florida have brought oil & gas drilling to the forefront once again. The panel will present a brief overview of oil and gas regulation in the State, the use of geophysical exploration, and current drilling trends. Additional panel discussions will center on oil and gas-related legislation, including the recently enacted Florida Underground Natural Gas Storage Act; and despite a lack of off-shore drilling for over the last 30 years, the State was not immune to the Deepwater Horizon oil spill. Florida's response to the oil spill will be presented, including present status.

Panelists:

Danielle Irwin, Florida Department of Environmental Protection
Matthew Leopold, Florida Department of Environmental Protection
Linda Lampl, Lampl Herbert Consultants
Thomas Herbert, Lampl Herbert Consultants
Timothy Riley, Hopping Green & Sams, P.A.

Thursday, April 10

**12:00 pm – 1:15 pm Hot Topic Lunch – Grand Bay Ballroom
(Buffet opens at 11:45; Pick up your lunch and go to one of the breakouts. Drinks will be in each
breakout room; Sessions begin at 12:15 pm)**

Coastal

Hot Topic Lunch #5: Deepwater Horizon - Panel
Room: St. Petersburg III

This panel will discuss the immediate response actions to the April 20, 2010 Deepwater Horizon explosion and oil spill and what has followed in the years ahead. The Florida Department of Environmental Protection is the lead state agency for responding to impacts of the oil spill and the resulting restoration process. Florida implemented response operations and emergency restoration. On July 6, 2012 the President signed the RESTORE Act into law. The Act creates the Gulf Coast Ecosystem Restoration Council, and outlines five funding categories for Clean Water Act civil and administrative penalties from the oil spill. The Gulf Environmental Benefit Fund was established by the National Fish and Wildlife Foundation (NFWF) to administer funds arising from plea agreements that resolve the criminal cases against BP and Transocean. The state agencies in Florida will work directly with NFWF to identify projects, in consultation with the federal agencies.

Panelists:

Ana Gibbs, Florida Department of Environmental Protection

Scott Zengel, Atkins

Darryl Boudreau, The Nature Conservancy

Keith Wilkins, Escambia County

Kevin Claridge, Florida Department of Environmental Protection

Thursday, April 10

1:30 pm – 3:00 pm

Sustainability

Session 36: Building Relationships for Local Environmental Protection Efforts - Panel

Room: Williams & Demens

This panel presentation will include a brief history of Florida Local Environmental Resource Agencies (FLERA), the goals of the founding members, and how inclusion of private companies representing a wide spectrum of environmental protection topics has strengthened the organization to the FLERA you see today. The presentation will also highlight achievements of the organization in the almost four decades since FLERA was created. Concrete examples of how FLERA has helped local programs will be presented, including FLERA's recent success in helping preserve local control for petroleum inspection and cleanup programs. Michelle Leigh and Alan Marshall will discuss how FLERA has served not only as a mechanism for agencies to learn from one another, but also as a vehicle for providing technical input to the State of Florida's environmental policy.

Panelists:

Michelle Leigh, Volusia County

Alan Marshall, Orange County

Cultural Resources

Session 37: Successfully Addressing Your Need to Comply with Section 106 and NEPA

Room: St. Petersburg I

This session addresses how to successfully comply with the requirements of both Section 106 and NEPA compliance. Papers include a presentation on Conditional No Adverse Effects, which are becoming a more common resolution in the Section 106 process. Another presentation addresses what kinds of sources provide the most relevant information about a property to help researchers focus on risks that have already been discovered and how best to uncover previously unknown potential risks. Last is a paper about how to better consider environmental data and ecological characteristics to make field reconnaissance surveys a better tool for archaeologists to test assumptions about settlement patterns in what are thought to be marginal environments for the type of long-term human habitation that leaves an archaeological signature. Looking at case studies in New York State, the presentation will show that by developing sampling strategies based on sensitivity assessments and models with SHPO consultation, cultural resource managers can provide a cost-effective and timely study as well as a valuable research tool for unique environments.

Joseph Trnka, Kirkham Michael: *Conditional No Adverse Effects*

Jeri Massengill, Historical Information Gatherers: *Working around limitations in environmental risk assessment research*

Corey McQuinn, Hartgen Archeological Associates: *Developing Archaeological Testing Strategies Based on Environmental Data: Three Case Studies from New York State*

Thursday, April 10

1:30 pm – 3:00 pm

Wetlands

Session 38: Wetland Management

Room: Harbor View & Pier

This session will address the relationship between wetlands and wellfields and different approaches to counter wetland impacts. This includes management plans, groundwater augmentation and redirecting floodwaters.

Matthew Miller, Dewberry: *Wetland Recovery and Management in a shallow, freshwater wellfield in Southwest Florida*

Cynthia Grizzle, Reynolds, Smith and Hills Inc.: *Innovative Solution to Flooding Springs Life to Wetlands*

Dan Schmutz, GPI Southeast Inc.: *Evaluation of Groundwater Augmentation for 15 Wetlands and Lakes in the Northern Tampa Bay Area*

Water Resources

Session 39: Tampa Bay Water Desalinization – Challenges & Lessons - Panel

Room: St. Petersburg II

Desalinization is often presented as the ultimate solution to our water supply needs, but the “desal” process brings with it a whole new set of issues. Tampa Bay was one of the nation’s first communities to make use of desalinated sea water to augment potable water supplies and this session will focus on the basics of developing this resource, as well as the challenges and lessons learned from the operation of the program.

Panelists:

Christine Owen, Tampa Bay Water

Robert McConnell, Tampa Bay Water

Robert Woithe, Atkins

Thursday, April 10

1:30 pm – 3:00 pm

Climate

Session 40: Climate Change Resiliency - Panel

Room: St. Petersburg III

The presentation will provide the latest data on climate change from scientists at the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory (JPL) working on the Orbiting Carbon Observatory (OCO-2) project. That project monitors greenhouse gas levels in the atmosphere, global ice, global temperatures, and sea level to assess climate change impacts that are occurring and help better predict future impacts.

The panel will then switch gears and provide a summary of the latest requirements and recommendations for assessing climate change impacts for a project during a NEPA evaluation based on information and guidance from the Council on Environmental Quality (CEQ), the Environmental Protection Agency (EPA), and the Intergovernmental Panel on Climate Change (IPCC). This summary will review the five designated greenhouse gases and the recent EPA and IPCC recommendation to include black carbon as a greenhouse gas.

Panelists:

Michael Hendrix, Atkins

Jack Hampson, Atkins

Cheryl Laskowski, Amillertkins

Thursday, April 10

3:15 pm – 4:45 pm

Sustainability

Session 41: Organizational Sustainability

Room: Williams & Demens

The topics in this session evaluate the implementation of sustainability practices and tracking into public organizations, private industry and government research. These presentations will provide insight on the tools available to help organizations in tracking sustainability, provide insight on how solutions were developed for unique situations and evaluate how to implement more sustainable solutions. Elizabeth Keysar will focus on how sustainability success in large public organizations requires both innovation and continual organizational change management. Hassan Moustahfid will discuss aquatic animal telemetry and tracking as the science of elucidating the behavior of animals as they move through the world oceans and lakes and how detailed observations of animal movements and their aquatic environment, have significantly improved our understanding of ecosystem function and the evolutionary constraints of species.

Elizabeth Keysar, Concurrent Technologies Corp: *Implementing Sustainability in Large Public Organizations*

Hassan Moustahfid, NOAA US IOOS: *Toward A Us Animal Telemetry Observing Network (Us Atm), For Our Oceans, Coasts and Great Lakes*

NEPA

Session 42: Noise Impact Analysis - Panel

Room: St. Petersburg I

This panel session will describe how to comprehensively incorporate acoustical resources and soundscapes into environmental documents. Alternative approaches to analyze the acoustic environment, additional metrics, and an introduction to the array of environmental impacts from noise will be discussed.

Panelists:

Lochen Wood, National Park Service

Frank Turina, National Park Service

Scott McFarland, National Park Service, Colorado State University

Thursday, April 10

3:15 pm – 4:45 pm

Water Resources

Session 43: Implementing Numeric Water Quality Criteria - Panel

Room: Harbor View & Pier

This session will focus on the issues and challenges faced by the state of Florida and other states in terms of complying with water quality regulations, specifically numeric nutrient criteria. Nutrient loading can come from a number of sources and can lead to a broad range of potential environmental impacts. Often the impacts of nutrient loading cannot be traced to a single source or discharger, and may be viewed as a cumulative impact that result indirectly from land use decisions upstream. As a result, responsibility for compliance may often be difficult to assign and even harder to mitigate.

Panelists:

Deborah Getzoff, Lewis, Longman & Walker, PA

Daryll Joyner, FDEP

Dan Dudley, EPA

Corey Buffo, EPA

Remediation

Session 44: Advanced Technologies

Room: St. Petersburg II

Various advancements in technologies continue to propel environmental assessment and compliance. Presentations will span from presenting emerging analytical and sampling methodologies through Incremental Sampling Methodology (ISM); to the implementation of electronic environmental compliance checklists – a mobile tool for compliance monitoring; to the implementation of 3-D scanning & modeling, including a live demonstration of the process of creating a CAD model from a point cloud.

David O'Brien & Shawn Morissette, SurvTech Solutions, Inc.: *3D Laser Scanning and Modeling with Live Modeling Demonstration*

David Smith & Christopher Mellett, Burns & McDonnell: *Electronic Environmental Compliance Checklist - A Mobile Tool for Environmental Compliance Monitoring*

Bruce Nocita, S&ME: *Incremental Sampling Methodology*

Henry Behzadi, Accutest Laboratories, Inc.: *Incremental Sampling Methodology*

Thursday, April 10

3:15 pm – 4:45 pm

Coastal

Session 45: City of Fort Pierce Island Breakwater Creation - Panel
Room: St. Petersburg III

Following its destruction during Hurricane Frances in 2004, the City of Ft. Pierce has constructed a 13-island storm protection system to harbor their 269 slip marina and adjacent public waterfront areas. The project's initial intent was to restore the structural elements of the marina and provide 100-year storm protection. However, the project quickly evolved into a 3-fold system, providing storm protection, habitat creation, and water quality enhancement. The islands also provide significant environmental enhancements that include mangrove plantings, oyster recruitment, shorebird habitat, and natural limestone artificial reef areas. This will be a panel discussion of the engineering and environmental elements of the project

Panelists:

Jesse Davis, Tetra Tech

Richard Czapinski, Tetra Tech


Brian Proctor, Tetra Tech

Ed Seissiger, City of Fort Pierce

Friday, April 11

8:00 am – 1:00 pm

NAEP Board of Directors Meeting (all members welcome)
Room: Harbor View



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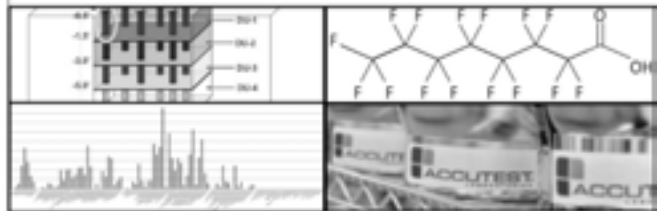
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Accutest Southeast Contacts

Harry Behzadi • Vice President of Operations/Corporate Technical Director
321-299-2604 • harryb@accutest.com
Susan Gaudios • Regional Account Manager
407-608-8062 • susang@accutest.com
Aaron Ben David • 321-229-2821 • aaronbd@accutest.com
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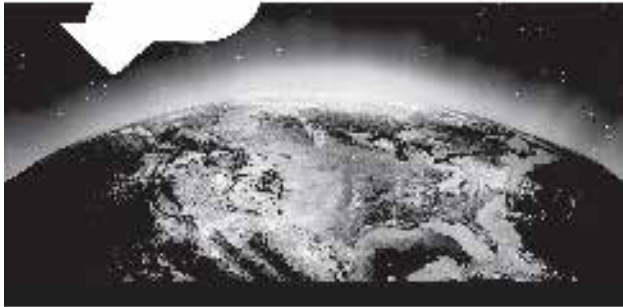
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