



**National Association of
Environmental Professionals
36th Annual Conference**

**Seventh Generation Thinking
Learning From the Past - Planning for the Future**

Final Program

**April 26-30, 2011
Sheraton Downtown
Denver, CO**

Table of Contents

Thank You to Our Sponsors.....4

Exhibitor Listing and Diagram.....5

Welcome letter from NAEP President.....6

Welcome letter from the Conference Co-Chairs.....7

NAEP Leadership.....8

2011 Conference Committee.....9

2011 Rocky Mountain Chapter Committee.....10

General Information.....11

Symposiums.....12 - 13

Keynote Speakers.....14 - 15

President’s Dinner - Wednesday.....16

National Environmental Excellence Awards.....17 - 21

Meeting Schedule.....22

Schedule At A Glance.....Tab

CONFERENCE PROGRAM

Monday - Tuesday27 - 28

Wednesday.....29 - 36

Thursday.....37 - 47

Friday.....48 - 58

Advertisements.....59 – 62

2012 Conference Information.....Inside Back Cover

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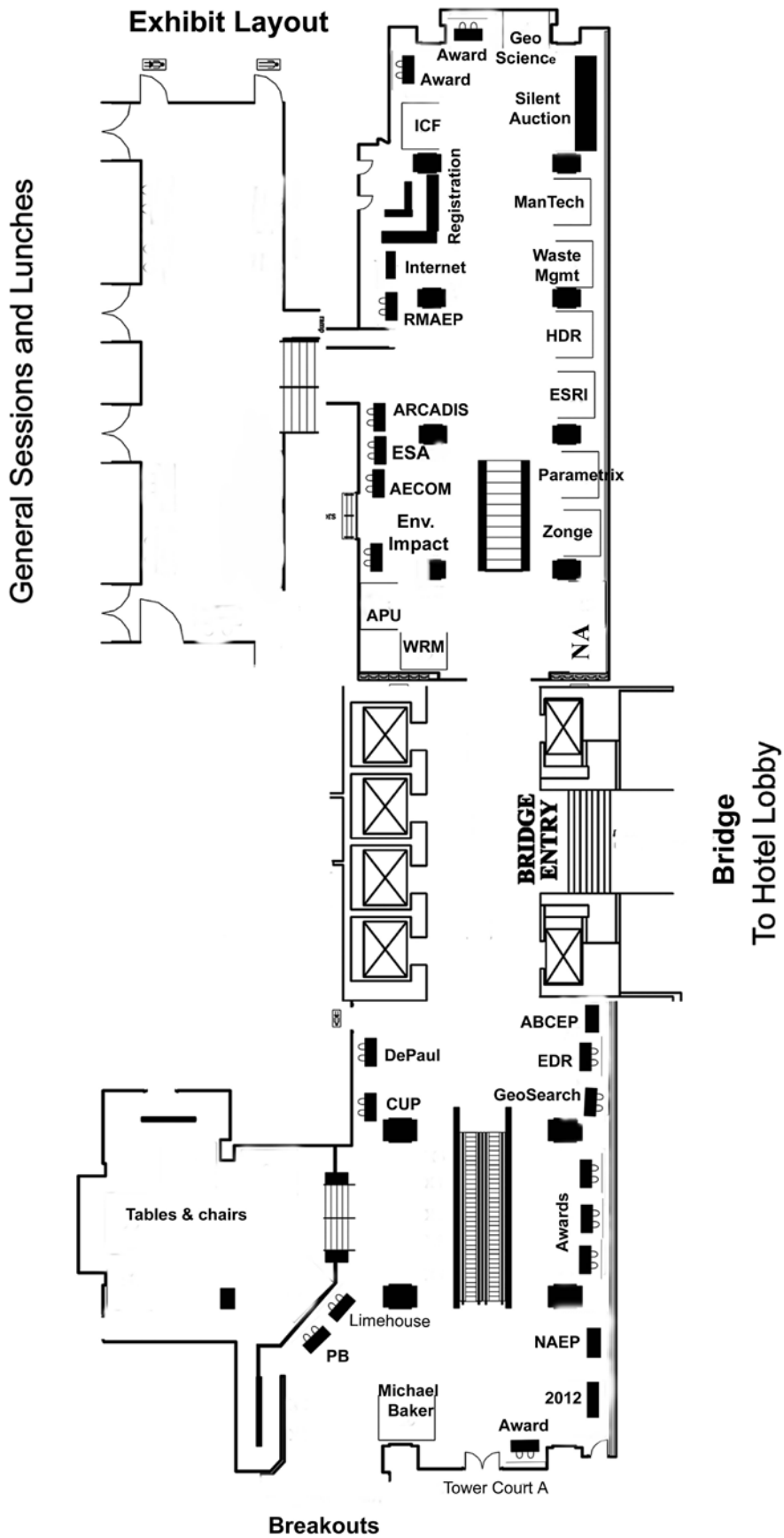
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Welcome everyone. We are excited that you have joined us for our 36th Annual Conference with its focus on preserving the environment for future generations. It is fitting that we are meeting here in the beautiful Rocky Mountain city of Denver. We know you will find the Energy Symposium, NEPA Process Symposium, conference sessions and events outstanding as the best environmental professionals in the country are gathered here to share their experiences and knowledge with you. Seventh Generation Thinking evokes the forward thoughtfulness and “land as spirit” insight that our earliest stewards of the environment gave us, from the respectful ways of the American Indian to this nation’s early environmental pioneers, such as Leopold and Muir. This sense of sustainable stewardship represents the way we need to manage our environmental programs, projects, and ecosystems now and far into the future.

Whether this is your first NAEP conference or 20th, whether you are a new NAEP member or a long-standing member, whether you are a student, a practicing professional, exhibitor or an environmental excellence award winner, welcome to our conference – we value your presence here and we look forward to learning much from you with your participation. I guarantee you will have many opportunities to make new friends, meet the nation’s top professionals, and renew your NAEP friendships.

Our cheers and heartfelt thanks goes to Jennifer Lundberg, 2011 NAEP Conference Co-Chair, and F. Yates Oppermann, Rocky Mountain Chapter Conference Co-Chair, and the entire conference planning team for their hard work and commitment to make this year’s conference so outstanding. Our thanks also go to the Rocky Mountain Chapter for being such a solid partner with NAEP to make this conference truly great. And once again, our accolades to Donna Carter, our NAEP Conference Coordinator, who has worked throughout this past year to keep us moving forward toward our goal of continual improvement and reaching conference excellence.

Take the initiative to introduce yourself. I look forward to meeting you at the symposiums or opening sessions, having lunch with you and listening to our impressive keynote speakers, and enjoying your company at the President’s dinner in the Denver Art Museum. I am truly interested to learn about your life as an environmental professional. And while you are here, linger a while in the Denver area and see first-hand the beautiful landscapes the Rockies have to offer. I challenge all of you, over the next few days, to learn, grow, and expand your reach beyond your current thought horizons, and leave a part of yourself and your wisdom with us too. It is through the focused and dedicated efforts of individuals like yourself that our environmental professions and this association thrive.



Ron Deverman

From the Conference Co-Chairs

Welcome to the 2011 Annual Conference of the National Association of Environmental Professionals and the Mile High City, Denver! We know you have choices on which conferences to attend and with the continuing economic environment, likely a small budget for conference attendance. We would like to thank you for choosing to attend our conference. Our deepest appreciation and heartfelt thanks also goes to our sponsors and exhibitors who helped make this conference affordable to all. We ask participants to take a moment to peruse the lists of sponsors, to visit the exhibitors, and thank all of those who have provided this greatly needed support. We hope you will also take the time to thank the committee members, students, and other volunteers. Without their unwavering participation and dedication, this conference would be only a shadow of the coming week's offerings.

The theme of this year's conference is "Seventh Generation Thinking: Learning from the Past – Planning for the Future." The Conference Committee chose this topic to remind us all that choices and decisions made in the past and today affect many generations into the future. What did your great-grandparents think their actions meant to the environment? What will your great-grandchildren think about what you are doing? What will 7-generations from now think about what decisions we've made? While these are lofty questions, they come into play every day in our work and our lives. More so as the world changes faster, that the differences between generations becomes greater, and the impacts of our decisions have greater consequence. But then, helping people manage this responsibility is the charge of NAEP, and as members we embrace the challenge. We have assembled a wide range of distinguished speakers, expert panels, and professional sessions and presentations at this year's conference that cover a variety of topic areas, but they all really come down to the question of how we will we be remembered as a society in the generations of Americans and world citizens to come.

We are also pleased to provide two symposiums this year: NEPA and Energy. The NEPA Symposium provides an interactive learning opportunity for NEPA professionals to discuss current issues and new information including CEQ updates, cumulative effects analysis, and new initiatives to improve projects. The Energy Symposium focuses on the challenges and opportunities in developing energy projects. The continuing evolution of NEPA practices and future energy solutions are key sectors for environmental professionals providing the best future.

Enjoy, learn, and take away the many ways of maintaining, improving, and protecting our environment highlighted throughout this conference for use in your own environmental practice. Welcome to Denver!

Sincerely,



Jennifer Lundberg, CEP and F. Yates Oppermann

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¹ Note: All chapters listed above are affiliated with NAEP, except as noted.

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Registration

The registration desk is located on the 2nd level in the Tower Building, South Lobby in the Sheraton Downtown.

Registration Hours

Tuesday, April 26
7:00 am – 5:00 pm

Wednesday, April 27
7:00 am – 5:00 pm

Thursday, April 28
7:00 am – 5:00 pm

Friday, April 29
7:00 am – 3:00 pm

Exhibits

Exhibits are located on the 2nd level in the Tower Building area, North and South Lobby areas.

Exhibitor Set Up
Tuesday, April 26
8:00 am – 4:30 pm

Exhibitor Tear Down
Friday, April 29
3:00 pm – midnight

Exhibit Hours

Tuesday, April 26
5:00 pm – 7:00 pm

Wednesday, April 27
7:00 am – 5:30 pm

Thursday, April 28
7:00 am – 5:30 pm

Friday, April 29
7:00 am – 3:15 pm

Speaker Registration

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

Door Prize Drawings!

There will be 3 drawings, each for a \$100 certificate good toward your 2012 NAEP Annual Conference registration. The drawings will be held at the beginning of each lunch (Wed – Fri), so don't be late! You must be present to win.

Electronic Devices

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

Internet Access

Idaho National Laboratory is again sponsoring Internet Access for a laptop with a printer available for your use. It will be located near registration. The Sheraton also provides wireless internet access in the lobby. You may use your own laptop or use the hotel's.

Conference Attire

Business casual attire is appropriate for all events during the conference.

This year, NAEP brings you two Symposiums. In addition to AICP Certification Maintenance points, both symposiums are qualified for Continuing Education Units. Lunch and breaks are included with the symposium fee.

Improving the NEPA Process

Come learn and discuss what's new in the NEPA world from two highly experienced and dynamic practitioners, Lamar Smith with FWHA Resource Center and Judith Lee with Environmental Planning Strategies, Inc. The Symposium will focus on better understanding CEQ Guidance, NEPA practice, and new initiatives to improve projects.

Lamar and Judith will lead a discussion on several developments with CEQ. First up will be CEQ's new guidance on categorical exclusions, including a comparison of those used by FHWA and DOE, agencies on opposite ends of the spectrum. Next will be a discussion the power and responsibilities associated with mitigated FONSI's according to CEQ.

Under the NEPA practice category, Lamar and Judith will take the fear out of the analyses of cumulative effects and induced growth. They will also discuss current legal issues including understand the rules that courts use for evaluating the requisite "hard look" and how to evaluate "significant impacts" and the new four-part test for injunctions. FHWA has a new program called Every Day Counts, which is intended to shorten project delivery while enhancing safety of roadways and protecting the environment. Lamar and Judith will also lead a discussion on how to engage people in envisioning new livable communities with EPA's fun and effective Vision To Action process. Lastly, join Lamar and Judith in an interactive discussion on the Meaning of Words and how clarifying our communication can defuse conflict and empower the interdisciplinary approach. Join us for provocative discussions as only Judith and Lamar can evoke!

National Energy Symposium

Environmental Challenges and Solutions

Opening Remarks – John King, Environmental Management and Planning Solutions (EMPSi)

Overview of the Challenge:

- **The Visible Hand of Energy Development**, Rich Halvey, Western Governors Association

Transmission and Siting: Challenges and Opportunities 1

- **Siting and Permitting Challenges in Colorado** – Karl Myers, Tri-State Generation and Transmission Assoc, Inc.
- **Renewable Energy Development and Permitting on Public Lands**, Greg Helseth, Bureau of Land Management, Las Vegas, NV
- **Collaborating for Success: Keys for Stakeholder Engagement**, Nada Culver, Senior Counsel and Director, BLM Action Center

Improving the Siting Process

- **Understanding and Planning for Renewable Energy Development Through Programmatic NEPA Analysis: A BLM Case Study on Solar Energy?** Shannon Stewart, US Bureau of Land Management, Washington, DC
- **Converting Compromised Lands to Energy-Generating Stations: Renewable Energy Technologies on Formerly or Presently Contaminated Sites.** Gail Mosey, National Renewable Energy Laboratory, US DOE
- **A Blueprint for Siting Renewable Energy: The Restoration Design Energy Project,** David Batts, EMPSi

Trends in Technology 1

- **Permitting and Siting of Utility-Scale Solar PV,** Ken Borngrebe, Manager of Permitting, First Solar
- **Always On – Geothermal Technology and Development,** Kermit Witherbee, National Renewable Energy Laboratory, US DOE
- **Oil and Gas: Future Development Potential and Environmental Impacts Overview,** Tisha Conoly Schuller. President and CEO, Colorado Oil and Gas Association

Lunch Speaker: The pathway to biofuels--walking on water Jonathan Trent, Ph.D., NASA

Transmission and Siting Challenges and Opportunities 2

- **Transmission Siting: Unique Approaches,** Luke Papez, LS Power Development
- **Memorandum of Understanding (MOU) -Coordination in Federal Agency Review of Electric Transmission Facilities on Federal Land ,** Robert Cunningham, US Forest Service
- **Environmental Benefits Of Strong Energy Efficiency Policies,** Howard Geller, Southwest Energy Efficiency Project)

Trends in Technology 2

- **Energy Development, Siting and Permitting in the Ocean Environment,** Mark Eckenrode, Bureau of Ocean Energy Management
- **Concentrated Solar Thermal Technology,** Michael Cressner, Solar Millennium, LLC,
- **How Close is Too Close? An Analysis of the Visual Looming Effect of New Larger Wind Power Projects,** Todd Bronk, AECOM

Special Topics and Tools

- **Az SMART: Arizona Solar Market Analysis and Research Tool,** George Basile, Ph.D., Arizona State University
- **Regulatory Compliance through GIS on a FERC-permitted Hydroelectricity Project - GIS that knows the difference between your ASM and your *Armillaria*,** Michael Murphy, Southern California Edison Company.
- **Energy Past--Energy Future: The Eternal Dance of Alternatives,** John Perkins, Evergreen College

Keynote Speakers

Mr. Tom Cech

University of Northern
Colorado
Wednesday, April 27, 8:00
AM



Tom has been an adjunct professor at the University of Northern Colorado in the Earth Science Department where he developed materials for “Principles of Water Resources” published by John Wiley & Sons. He is currently an Affiliated Faculty member in the Department of Forest, Rangeland, and Watershed Stewardship at Colorado State University in Fort Collins. Tom also recently published “Introduction to Water Resources and Environmental Issues” with Cambridge University Press, and “Colorado Water Law for Non-Lawyers” with the University Press of Colorado. He has been Executive Director of the Central Colorado Water Conservancy District in Greeley since 1982.

Mr. Jim Evanoff

Yellowstone National
Park
Wednesday, April 27,
11:45 AM



Jim has been with the National Park Service for the past 29 years. His career has involved working in four other National Parks before coming to Yellowstone in 1988. Starting in Curecanti National Recreation area, Colorado, Jim was instrumental in developing the infrastructure for this newly acquired Park unit. Next he moved to Grand Teton National Park and was responsible for preservation of over 100 historic structures within the park. After working there for 3 years, Jim transferred to Arches National Park in southern Utah. The next move was to Mt. Rushmore in the

Black Hills of South Dakota, where his responsibilities included the preservation maintenance of the famous four faces. Currently in Yellowstone, Jim is the Environmental Protection Specialist for the Park. His work experiences have varied from assisting in wolf reintroduction to spearheading many of the Park’s “greening initiatives.” Jim manages many of Yellowstone’s environmental programs and provides guidance to other national parks for achieving sound environmental stewardship. He holds a Bachelor of Science degree from the University of Wisconsin.

Mr. Stan Rogers

Air Force Space
Command
Thursday, April 28,
8:00 AM



Stan Rogers is the Command Environmental Conservation Program Manager at Headquarters Air Force Space Command, Colorado Tower Bs, Colorado. In addition to administering Natural and Cultural Resources programs, he is responsible for Space Command’s overseas Environmental Programs and Integrated Pest Management Programs. His programs span across 33 installations in the Continental United States, Hawai’i, Alaska, Puerto Rico, and overseas locations including Greenland, Antigua, and Ascension Island. In addition to his role at Space Command, Mr. Rogers serves as the Air Force’s Conservation Law Enforcement Program Manager coordinating training and law enforcement operations for over 60 Federal conservation law enforcement officers across the U.S.

Keynote Speakers

Dr. Chris Diogini

National Invasive Species
Council

Thursday, April 28, 11:45 AM



Chris Dionigi has served as the Assistant Director for Domestic Policy for National Invasive Species Council (NISC) since 2000. His work covers the full range of topics addressed by NISC with a particular emphasis on the early detection of invasions, eradication of localized infestations, and the control of widespread invasive species. Prior to joining NISC, he was a USDA legislative fellow on the U.S. Senate Committee for Agriculture where he worked on Clean Water Act and invasive species issues. Chris was a Research Plant Physiologist for the U.S. Department of Agriculture's Agricultural Research Service (ARS) where he led an aquaculture/aquatics research program and authored over 20 peer-reviewed scientific manuscripts. He holds a Ph.D. in Crop Science (emphasis in Weed Science), and Master of Science and Bachelor of Arts degrees in Biology. Chris is a third generation native of Colorado.

Mr. Tseming Yang

US EPA

Friday, April 29, 11:30
AM



Tseming Yang is Deputy General Counsel at the US Environmental Protection Agency. He is currently on a leave of absence from Vermont Law School, where he is a professor of law and was the director of the USAID-funded Vermont Law School –Sun Yat-sen University Partnership for Environmental Law in China. Mr. Yang's research and teaching have focused on US and Grand environmental law, including environmental justice, global climate change and China's environmental laws. From 1998 to 2003, he served as a member of EPA's National Environmental Justice Advisory Council and chaired the Grand Subcommittee. He has also been a visiting professor at the University of Pittsburgh Law School and a Fulbright lecturer at the Tsinghua University School of Law in Beijing, China. Before joining the Vermont Law School faculty in 1998, Mr. Yang served as an attorney with the U.S. Department of Justice's Environment and Natural Resources Division, practiced law with the firm of Latham and Watkins, and was a law clerk for the Honorable Rudi M. Brewster of the United States District Court for the Southern District of California. He received his BA degree in biochemistry, magna cum laude, from Harvard University and his JD degree from of the University of California at Berkeley School of Law, where he served as articles editor on the California Law Review.

An Evening at the Denver Art Museum 5:30 – 9:30 pm



The evening will begin with private viewing of two of the Museum's galleries. The first collection is the newly opened American Indian Art gallery where you'll find one of the world's premier collections of Native American art. The newly remodeled galleries of American Indian and Northwest Coast art focuses on artists and their creations, revealing the hand and eye of each individual artist. The comprehensive collection of American Indian art includes 18,000 artworks, ranging from prehistoric to contemporary, including current visitor favorites and hundreds of additional American Indian works that will be on view for the first time.

The second gallery open to us is the Western American Art collection. This collection includes work by western masters such as George Catlin, Frederic Remington, Charles M. Russell, John Mix Stanley, Alfred Jacob Miller, and others. The crown jewel in the institute's collection is Charles Deas's *Long Jakes, "the Rocky Mountain Man,"* the single most influential image in Rocky Mountain iconography.

The Western American art collection was greatly enhanced in 2001 with a gift of more than 800 works of art from Bill and Dorothy Harmsen, longtime Colorado residents and founders of the Jolly Rancher Candy Company.

A buffet dinner will be served from 6:45 – 8:00 PM and a cash bar will be available in the lobby area from 5:30 – 9:30. For your entertainment, Regnier & Associates has provided The Nacho Men band which will play from 6:45 – 9:30. Dancing is encouraged!

The Art Museum is located about 4 blocks from the Sheraton, so we will all be walking to and from, there will be no transportation provided. If for some reason you cannot make the walk, please talk to Donna Carter about alternate transportation. Bring a jacket and comfortable walking shoes, it will be cool, especially when we return to the hotel. There is a map in your registration packet.

To get to the museum, exit the hotel lobby, turn right and right again to walk between the Sheraton and the Sheraton Tower building. This is Court Place. Continue on to 14th Street. Go left on 14th St one block and cross Colfax. Angle to the right on Bannock St which goes along the edge of Civic Center Park and continue one block. At the junction of Bannock and 14th Ave you will go left on 14th Avenue to the entrance to the Art Museum. Look for the NAEP sign. If you need visual directions, maps to the DAM from the Sheraton are available at the conference registration desk or from the hotel concierge.

For more information about the museum go to www.denverartmuseum.org.

Each award winner has a poster and a display table with more information on their winning project. These display tables are located in the Grand Ballroom foyer and will be set up on the same day as the award presentation.

*** *President's Award - Wednesday 11:45 – 1:15***

Project Name: Comprehensive Ecosystem-Based Amendment 1 for the Southeast Atlantic Region
Award Presented to: David Cupka on behalf of the South Atlantic Fishery Management Council and the National Marine Fisheries Service

The Comprehensive Ecosystem-Based Amendment 1 implemented management measures that allow for the protection of over 23,000 square miles of pristine, deepwater coral ecosystems – one of the largest in the world. These areas are protected through the creation of deepwater coral habitat areas of particular concern in which bottom damaging fishing gear is prohibited. Allowable fishing zones for the golden crab and deepwater shrimp fishery were also created allowing for fisheries to continue in their historic fishing grounds without damage to the coral resource.

The project required extensive coordination and cooperation among a host of participants, indicative of the complexities in protecting such a valuable natural resource.

*** *Best Available Environmental Technology Award – Wednesday 8:00-9:30***

Project Name: City of Marco Island Aquifer Storage and Recovery Well Field
Award Presented to: John Jansen of Cardno ENTRIX, on behalf of Cardno ENTRIX and the City of Marco Island

The City of Marco Island struggled with severe limitations of potable water due to the absence of fresh water aquifers beneath the island. Water supplies from desalination of brackish water were inadequate and costly. Cardno ENTRIX and the City of Marco Island developed a unique aquifer storage and recovery system (ASR) to capture excess wet-season surface water for storage in a brackish deep water aquifer for later recovery and use in the dry season. The ASR system recovers up to 1.5 billion gallons of fresh water annually. The recovered water is then treated by conventional softening for potable use.

The ASR system, developed in several stages at an overall cost of approximately \$10 million, proved less costly than alternatives. However, it had to overcome new technical obstacles. There was no record of successfully and economically implementing ASR for a potable supply system emanating from an aquifer containing such highly brackish native water. The native brackish water had to be effectively flushed from the aquifer for storage of fresh water and later recovery. The ASR system uses partially treated surface water as its source water, allowing only 4 percent mixing of with brackish water when recovered from the aquifer. The ASR system is much more efficient than typical ASR wells and provides a unique solution to properly and sustainably supply potable water for the City of Marco Island, Florida.

*** *Conservation Programs Award – Wednesday 8:00 – 9:30***

Project Name: All American Canal Lining Project

Award Presented to: Michel Remington of Imperial Irrigation District on behalf of Imperial Irrigation District, U.S. Bureau of Reclamation, All American Canal Lining Coordinating Committee and the San Diego County Water Authority

The Imperial Irrigation District implemented the All American Canal Lining Project through exceptional cooperation among project partners, the Bureau of Reclamation, San Diego Water Authority, and the California Department of Water Resources. The project conserves over 67,000 acre-feet of water per year, a portion of which is directed to the Band of Mission Indians and other local entities in northern San Diego County. Innovative mitigation measures include: cultural resource survey and protection; wetland and desert riparian habitat creation; provisions for flat-tailed horned lizard habitat, fishery improvement and monitoring of large mammals. Most importantly, during construction extensive coordination among federal agencies, including the Border Patrol, recreationists, and on-site workers ensured that the established mitigation measures were efficiently and effectively implemented.

*** *Education Excellence Award– Wednesday 8:00 – 9:30***

Project Number: Maricopa County Dust Abatement Handbook and Field Guide

Award Presented to: Nancy Favour of Logan Simpson Design on behalf of the Maricopa County Air Quality Department

The Maricopa County Air Quality Department enforces air quality regulations within Maricopa County, Arizona. Reducing fugitive dust is a high priority in that dust is one of the county’s largest sources of air pollution and construction activity is one of the largest contributors. The department focused on helping citizens understand and meet regulatory requirements through involvement, education, and guidance.

The *Dust Abatement Handbook*, is an illustrated, comprehensive handbook that explains requirements in laymen’s terms and provides hands-on methods for control. In addition, the department developed the *Dust Abatement Field Guide for the Construction Industry*. This brief, illustrated “back-pocket” tool describes common situations when fugitive dust may be generated and provides real world methods to control dust on the jobsite.

Both documents were developed based on public input and assisted by a stakeholder working group. With such help, the department was able to translate complex regulatory language into clear, easy to understand terms, provide insight into how regulations are enforced, and offer helpful hints for compliance.

*** *Environmental Stewardship Award – Wednesday 11:45 – 1:15***

Project Name: General Waste Products, Inc., Main Yard Site Remediation Project

Award Presented to: Michael Nelson, Esq., Hunsucker Goodstein & Nelson on behalf of Evansville Greenway & Remediation Trust, Kathleen Givens Lucas, Esq., Trustee, Hunsucker Goodstein & Nelson, PC, Apex Companies, LLC and the City of Evansville, Indiana

The General Waste Products, Inc., Main Yard Site Remediation Project is an outstanding and innovative example of the integration of financial contribution from multiple parties and excellent team accomplishment. Contributions and leadership was secured from professionals in local industry, insurance, state and local government, and the Evansville Greenway and Remediation Trust.

Ms. Kathleen G. Lucas, Trustee with support from the Trust's Council, Mr. Michael Nelson of Hunsucker, Goodstein & Nelson PC were instrumental in remediating the long-term environmental and health hazards from an abandoned industrial site on the edge of downtown Evansville, Indiana. The abandoned site is a now a key link in the city's Greenway park system linking the downtown with historical neighborhoods, while celebrating the industrial history of the community.

*** *Environmental Management Award– Wednesday 11:45 – 1:15***

Project Name: Lyons Cement Plant “Above and Beyond” Program

Award Presented to: Steve Goodrich, Plant Manager, Cemex Lyons Cement Plant

CEMEX Lyons Cement Plant approach to production is defined by its holistic environmental “Above and Beyond Program.” This Program integrates environmental compliance and conservation, land restoration, and wildlife enhancements at every level of the plant and quarry operations. The program reduces adverse environmental impacts in all media, raises employee awareness and actions, and appropriately reclaims needed land.

The CEMEX Lyons plant implements energy savings each year of 129,640 MMBTU of thermal energy and decreased greenhouse gas emissions near 13,000 tons of CO₂. The total electrical energy saved per year is near 5.52 million kWh – an amount sufficient to light 550 American homes and avoid greenhouse gas emissions equivalent to approximately 4,100 tons of CO₂. In addition, air emissions are reduced by 35%, significantly below permitted limits. The facility eliminated the use of hazardous solvents, found alternatives to reuse materials, reduced the footprint of the facility and operations, and restored areas to native prairie.

The projects and programs instituted creative and novel approaches to environmental issues such as energy efficiency, solved problems concerning reductions in emissions, and created and funded projects to improve land for long-term sustainability and wildlife habitat.

*** *NEPA Excellence Award - Thursday 8:00 – 9:30***

Project Name: Innovative NEPA Approaches for Renewable Energy Financial Assistance under the American Recovery and Reinvestment Act

Award Presented to: Robin L. Sweeney on behalf of the Office of the Environment, Golden Field Office, U.S. Department of Energy

Under the American Recovery and Reinvestment Act (ARRA), Congress allocated \$16.7B to advance renewable energy technologies nationwide. Over 4,000 projects worth \$9B required environmental review at DOE's Office of Energy Efficiency and Renewable Energy at the Golden Field Office. Creative and novel approaches were employed to develop templates and statement-of-work checklists to assist recipients in providing necessary environmental information for efficient NEPA reviews. Innovative approaches were implemented for agency consultations through programmatic Agreements for Cultural and Historic Preservation and the U.S. Fish and Wildlife Service regarding wind turbine effects on avian and bat species. Additionally, necessary Tribal consultation and legal advice were secured through other DOE offices.

Through aggressive management and coordination, all funds were allocated by the end of fiscal year 2009. Nearly 100% of the projects now have complete NEPA reviews and appropriate documentation. The time necessary to complete an Environmental Assessment dropped to 3-5 months, well below DOE's mean time of 14 months. The DOE and other Federal, state, and local regulatory agencies, and others associated with the projects now benefit from the timely reviews and construction of needed infrastructure.

*** *Planning Integration Award- Thursday 8:00 – 9:30***

Project Name: Environmental Streamlining for the I-295/I-76/NJ Rt. 42 Interchange, Camden Co NJ
Award Presented to Ileana S. Ivanciu, P.G., Vice President/Deputy Project Manager for the I-295/I-76/NJ Rt. 42 Interchange, Dewberry on behalf of New Jersey Department of Transportation. With recognition to the U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, New Jersey Department of Environmental Protection, Delaware Valley Regional Planning Commission and Dewberry

A complex interchange sought since the mid -1980s faced a host of challenges, including potential impacts to fragile wetlands, a sensitive stream, valuable cultural resources, and community concern. Approvals and permits from a lengthy list of agencies required careful consideration of wetlands mitigation, water quality, tidelands conveyances, waterfront development, stream encroachment, reforestation, and coastal zone management.

The New Jersey Department of Transportation (NJDOT) and its consultant developed a streamlining program to move this challenging yet vital project through regulatory review and permitting, while embracing environmental stewardship. As the work progressed, teamwork among agencies selected appropriate methodologies, verified field data, reviewed results, and made decisions. Recorded consensus required all parties to refrain from re-opening agreements, unless new and significant data were discovered. In addition to maximizing interagency coordination, the streamlining program merged National Environmental Policy Act (NEPA) efforts with US Army Corps of Engineers (USACE) Section 404 Permitting, saving time and money. The project engaged planners, engineers, and resource and permit agency staff together early and often. Environmental documents and a preferred alternative were developed in a fully collaborative effort, seeking the viewpoints of various disciplines much earlier than is typical. Streamlining enhanced the consideration of natural and human resources, enabling engineering considerations to advance in concert with reviews.

*** *Public Involvement Award- Thursday 8:00 – 9:30***

Project Number and Name: Six Megawatt Solar Array / Groundwater Extraction and Treatment Facility "GET L-A"

Award Presented to Chris Conley, Vice President of Environmental Health and Safety, Aerojet-General Corporation

This award is presented for two complementary projects, each demonstrating Environmental Excellence in Public Involvement/Partnership. The first is an innovative remediation of contaminated groundwater. Aerojet installed a system to capture and treat contamination through an extensive series of groundwater extraction wells and nine treatment systems on and off Aerojet's campus. Treated effluent is now used for non-potable irrigation for a regional park, conserving 125M gallons of potable water annually, at a significant cost savings to taxpayers. The project is a public private partnership between a public corporation, a municipal water agency, a local government and state and federal regulatory agencies.

The second is a six-megawatt, industrial solar installation which is one of the largest single-site facilities in the United States, capable of annually producing 11,000,000 kWh of renewable energy. Regulatory and fiscal constraints were overcome through the public-private partnership among Aerojet, Solar Power, Inc., the U.S. EPA, and the Sacramento Municipal Utility District which provided essential rebates to ensure the project's financial feasibility. Located within a Superfund-restricted area within Aerojet's Sacramento site, the project is a successful example of revitalizing Superfund/ Brownfield lands for sustainable purposes.

The groundwater project requires a significant amount of energy to operate. The solar facility provides much of that energy in a clean and sustainable manner. Additionally, the solar project effectively utilizes environmentally-encumbered lands for beneficial and sustainable purposes.

*** *Zirzow Student Award***

Award Recipient: Andrew Fillion
School: Colorado State University

Andrew Fillion has been selected as this year's Zirzow Student Award Recipient. He is a Graduate Student at Colorado State University, majoring in Construction Management and Information Systems. He was nominated by Dr. Mehmet Ozbek for his academic achievement and dedication. Andrew will be recognized for this award at the conference luncheon on Thursday, April 28. Andrew is a new NAEP student member and looks forward to attending the technical sessions and meeting our members. Please introduce yourself to Andrew and congratulate him!

Meeting Schedule

Meeting Name	Day	Time	Room
NAEP Board of Directors*	Monday	2 pm – 5 pm	HNTB Office 1600 Broadway, # 1300
ABCEP BOT & CRB	Tuesday	8 am – 5 pm	Tower B
Publications Committee	Tuesday	5 pm – 6 pm	Tower D
Chapters Committee	Wednesday	7 am – 7:45 am	Tower B
Permanent Conference Committee	Thursday	7 am – 7:45 am	Windows
NEPA Working Group	Thursday	5 pm – 6 pm	Windows
Transportation Working Group	Thursday	5 pm – 6 pm	Tower B
2012 Conference Committee	Thursday	5 pm -6 pm	Tower C
E2P Committee	Thursday	7 pm – 8 pm	Tower D
NAEP Board of Directors*	Saturday	8 am – noon	HNTB Office 1600 Broadway, # 1300

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

Ad

	Monday, April 25			
2:00 pm – 5:00 pm	BOD meeting – HNTB offices			
	Tuesday, April 26			
8:00 am – 5:00 pm	Energy Symposium Windows	Improving The NEPA Process Symposium Tower D	ABCEP BOD & CRB - Tower B	
5:00 pm – 7:00 pm	Publications Committee Tower D	Networking Mixer, Tower Foyer		
	Wednesday, April 27			
7:00 am – 7:45 am	Chapters Committee – Tower B			
8:00 am – 9:30 am	Welcome, Kramer Award, 3 Environmental Excellence Awards, Keynote Tom Cech, Central CO Water Conservancy Dist. – Grand Ballroom			
9:30 am – 9:45 am	Break – Tower Foyer			
9:45 am – 11:15 am	Session #1 NEPA The Gulf Oil Spill: A NEPA Perspective Windows	Session #2 Energy CDOT Right of Way Alternative Energy Tower B	Session #3 Environmental Education Tower C	Session #4 Watershed & Land Mgmt Climate Change Adaptation & Watershed Planning Tower D
11:45 am – 1:15 pm	Environmental Excellence Awards, Service awards, Keynote Jim Evanoff, NPS - Grand Ballroom			
1:45 pm – 3:15 pm	Session #5 NEPA and Climate Change Windows	Session #6 Environmental Regulations EPA & Air Regulations Tower B	Session #7 Professional Development Green Careers Seminar Tower C	Session #8 Land & Watershed Mgmt Planning for Parks Tower D
3:15 pm – 3:30 pm	Break – Tower Foyer			
3:30 pm – 5:00 pm	Session #9 NEPA NEPA Training Criteria Windows	Session #10 Energy Alternative Energy on Public Lands Tower B	Session #11 Water Resources Managing Expectations Tower C	Session #12 Natural/Cultural Resources Creative Use of Mixed Media Tower D
5:30 pm – 9:30 pm	President’s Dinner at Denver Art Museum (This event included in full conference registrations, tickets available for all others)			

Thursday, April 28				
7:00 am – 7:45 am	PCC Committee Windows			
8:00 am – 9:30 am	Environmental Excellence Awards, Service awards, Keynote Stan Rogers, Air Force Space Command - Grand Ballroom			
9:30 am – 9:45 am	Break– Tower Foyer			
9:45 am – 11:15 am	Session #13 NEPA NEPA Legal and Policy Update Windows	Session #14 Oceans Current Issues in Marine Resource Mgmt Tower B	Session #15 Professional Development ABCEP Certification Tower C	Session #16 Transportation Noise and Transportation Planning Tower D
11:45 am – 1:15 pm	Service awards, Zirzow award, Keynote Chris Dionigi, NISC Grand Ballroom			
1:45 pm – 3:15 pm	Session #17 NEPA Compliance and Renewable Energy Windows	Session #18 Oceans Deep Water Horizon Oil Release Response & Recovery Tower B	Session #19 Bio/Chemical Brownfields Remediation Tower C	Session #20 Transportation Sustainable High Speed Rail Tower D
3:15 pm – 3:30 pm	Break – Tower Foyer			
3:30 pm – 5:00 pm	Session #21 NEPA No Action Alternative Windows	Session #22 Wetlands Restoration/Mitigation Tower B	Session #23 Brownfields Theory & Application of GHG Legislation Tower C	Session #24 Transportation Livability & Planning Strategies Tower D
5:00 pm – 6:00 pm	NEPA Working Group Windows	Transportation Working Group Tower B	2012 Conf Committee Tower C	E2P Committee Tower D
5:00 – 7:00 pm	Happy Hour at Katie Mullen’s Drinks & hor d’oeuvres courtesy of Hunsucker Goodstein and Nelson PC Please join environmental professionals from around the country, as well as those from local organizations, in celebration of another productive year of tackling environmental challenges. Network and exchange information with colleagues in industry, government, academia, and the private sector.			

Friday, April 29				
7:30 AM – 8:00 am	Breakfast Buffet, pick up in Foyer area and take to the Hot Topic of your choice			
8:00 am – 9:30 am	Hot Topic Breakfast #1 Sustainability – To Lean or Not to Lean? Windows	Hot Topic Breakfast #2 Current Events Forum Tower B	Hot Topic Breakfast #3 Body of Knowledge for Environmental Professionals Tower C	Hot Topic Breakfast #4 Emerging Trends in Environmental Justice Tower D
9:30 am – 9:45 am	Break– Tower Foyer			
9:45 am – 11:15 am	Session #25 NEPA Strengthen NEPA Windows	Session #26 Public Participation Making the Most of Public Involvement Dollars Tower B	Session #27 Natural/Cultural Resources Streamlining Historic Preservation & NEPA Compliance Tower C	Session #28 Transportation Sustainable Roadways Tower D
11:30 pm – 1:15 pm	NAEP Membership Meeting (open to everyone), Keynote Tseming Yang, USEPA Grand Ballroom			
1:30 pm – 3:00 pm	Session #29 NEPA Tools & Techniques for NEPA Document Oversight Windows	Session #30 Env. Regulations Multi-Regulatory Compliance Tower B	Session #31 Natural/Cultural Resources Old Trails, New Challenges for Historic Trails Tower C	Session #32 Transportation Everyday Counts: Planning & Env. Linkages Tower D
3:00 pm – 3:15 pm	Break– Tower Foyer			
3:15 pm – 4:45 pm	Session #33 NEPA Macro vs. Micro Modeling (<i>Note Room Change!!</i>) Grand Ballroom II	Session #34 Energy: Using Sophisticated Decision Making Tools in Long-Term Sustainability Planning Tower B	Session #35 Water Resources NEPA Compliance for Integrated Resource Planning Tower C	Session #36 Transportation High Speed Rail: Opportunities & Challenges Tower D
Saturday, April 30				
8:00 am – noon	BOD meeting – HNTB office			

Monday, April 25

2:00 pm – 5:00 pm

Board of Directors meeting – HNTB office, 1600 Broadway, Suite 1300 (all members welcome)
Please contact Tim Bower at naep@naep.org if you are interested in attending this Board Meeting.

Tuesday, April 26

7:00 am – 5:00 pm

Registration Open – South Convention Lobby

8:00 am – 5:00 pm

Improving the NEPA Process

Instructors: Lamar Smith, FHWA and Judith Lee, Environmental Planning Strategies, Inc.
Room: Tower D

Lamar and Judith will lead this one-day course for advanced professionals that will explore best practices, tools, and case studies for streamlining NEPA documentation and processes.

As experienced professionals, we are often confronted with new challenges in adapting to changing regulatory environments, funding sources, and agency initiatives. This course will offer examples from a variety of agencies, individuals, and firms that have successfully navigated changing conditions in the NEPA field. Topics include streamlining the contracting process, streamlining alternative selection using GIS and other tools, linking planning and NEPA, document quality initiatives, and fast-tracking ARRA-funded projects, among others. There will be ample opportunities for participants to ask questions and share their own experiences and suggestions to facilitate an interactive learning environment.

National Energy Symposium

Room: Windows

Our exciting National Energy Symposium features nationally recognized speakers from government and the private sector discussing challenges and solutions for renewable and non-renewable energy siting and operation. The Symposium is organized and moderated by John King, EMPSi.

Topics and sessions will include BLM's Solar Programmatic EIS; siting projects on disturbed lands, including brownfields; siting distributed energy (e.g. rooftop solar); relationship of energy planning to endangered and sensitive species; transmission siting; community involvement; geographic information systems and other computerized tools and their role in environmental analysis of energy projects; special planning consideration with regard to siting projects on Federal lands, energy efficiency's role, NEPA analysis considerations associated with applying for federal financing ; challenges associated with renewable energy technologies including biomass, geothermal, ocean, solar and wind.

ABCEP Trustee and CRB Meeting

Room: Tower B

5:00 pm – 7:00 pm

Publications Committee meeting (5 pm – 6 pm)

Tower D

Networking Mixer/Exhibits Open

Room: Convention Lobby North and South

Don't miss our opening mixer where you will have the opportunity to renew old acquaintances, meet new ones, visit with exhibitors and sponsors, view the poster presentations and just generally have a good time. A cash bar and hors d'oeuvres will be available. But wait! ICF International has sponsored a drink for all attendees. The ticket is in your registration bag, so don't forget to bring it!

Poster Presentations

Convention Lobby North and South

Kate Wynant, EMPSi: *Renewable Energy EISs: An Evaluation of the Efficiency of the NEPA Process and the Success of Fast-Track Projects*

Craig Miller, Tetra Tech: *Improving the Use of Biological Information in NEPA Documents*

7:00 am – 5:00 pm

Registration/Exhibits/Poster Presentation – Convention Lobby North & South

7:00 am – 8:00 am

Continental Breakfast - Convention Lobby North & South

7:00 am – 7:45 am

Chapters Committee Meeting – Tower B

8:00 am – 9:30 am

Opening Remarks – Ron Deverman, NAEP President

RMAEP – Rachel Peterson, President

Kramer Award – James Yawn, ABCEP President

NAEP National Environmental Excellence Award Presentations:

***Best Available Environmental Technology Award** - City of Marco Island Aquifer Storage and Recovery Well Field, Cardno ENTRIX

***Conservation Program** - All American Canal Lining Project

***Education Excellence** - Maricopa County Dust Abatement Handbook and Field Guide, Maricopa County Air Quality Department



Keynote Speaker: Mr. Tom Cech, University of Northern Colorado
Room: Grand Ballroom

Changing Views of Water Management in the West

The 1849 discovery of gold along the American River of California unleashed a mass migration of prospectors to the West. Ten years later, gold was found along Cherry Creek in Colorado (a stone’s throw from our conference location in downtown Denver). More than 100,000 gold seekers headed to Colorado to strike it rich, but soon found that gold mining was a fickle enterprise. By the early 1860s, many prospectors turned to irrigated agriculture and found great wealth in the limited water supplies of the South Platte River and its tributaries. In 1876, Colorado became a state and adopted its constitution which included the Doctrine of Prior Appropriation (“first in time, first in right”) for statewide water management.

Fast forward to the present day. The Doctrine of Prior Appropriation remains the law of the land in Colorado and most western states. Irrigators continue to control the vast majority of senior water rights in the west, but growing cities have accumulated large portfolios of water. They’ve accomplished this through the purchase of senior water rights and/or construction of massive water pipelines to transport vital water supplies over hundreds of miles. But to what end? How are environmental and recreation needs enhanced or preserved for millions of newcomers migrating to the West? How can we protect the property of senior water right holders vital to our national food security? *Mr. Cech will also be participating in a panel discussing Climate Change Adaptation and Watershed Planning in the Western US during Session #4 at 9:45.*

9:45 am – 11:15 am

NEPA

Session 1: The Gulf Oil Spill: A NEPA Perspective – Panel

Room: Windows

Over the last several decades, the regulatory framework for approving outer continental shelf (OCS) oil and gas leasing and exploration, and especially the NEPA process, has become complex and sometimes ineffective. Following a tiered approach, the typical OCS oil and gas project must rely on two programmatic EISs, at least one project-level EA, and a Categorical Exclusion. Despite these multiple layers of review, some potential environmental impacts have been overlooked and mitigation measures have often fallen between the cracks. Unfortunately, it took the explosion at the BP Deepwater Horizon Project and ensuing oil spill to focus the spotlight on the problems with the Mineral Management Service's NEPA procedures (Note: MMS was recently renamed the Bureau of Ocean Energy Management, Regulation and Enforcement). As a result of the disaster, CEQ initiated a review of MMS's NEPA process, identified numerous deficiencies, and made important recommendations for improvement. This session will explain how the Mineral Management Service applied NEPA to oil and gas projects prior to the spill, summarize the results of the CEQ review, and explain how MMS is reacting to the calls for improvements. Topics to be covered include:

- How NEPA applies to OCS projects: The tiered approach
- Application of NEPA to BP's Deepwater Horizon Project, in particular
- What was predicted versus what occurred
- Highlights of CEQ's Review of MMS' NEPA program and recommendations for change
- Congressional action in response to the spill
- How to make tiering more successful
- How to address low-probability, high-impact events (Black Swans)

Although focused on OCS projects, the session will share valuable lessons for a wider practice of NEPA.

Ron Bass, ICF International: Moderator

Horst Greczmiel, Council on Environmental Quality

Energy

Session 2: Colorado Department of Transportation Right of Way Alternative Energy - Panel

Room: Tower B

The CDOT owns and maintains more than 9,000 miles of highway right-of-way (ROW) in Colorado, and has several hundred acres of facilities including maintenance yards, offices, and rest areas. Many of these locations could potentially accommodate solar, wind, geothermal or other alternative energy systems. A research project was conducted by Colorado State University-Pueblo to evaluate the alternative energy potential of CDOT's rights-of-way and facilities to generate CDOT's own electricity. Methods and overall findings of the research study will be presented by a panel.

Jane Boand, Senior Associate, David Evans and Associates: Moderator

Ayman Hama, Colorado State University - Pueblo engineering graduate student

Lionel Toba, Colorado State University - Pueblo engineering graduate student

9:45 am – 11:15 am

Environmental Education

Session 3: Environmental Education

Room: Tower C

The presentations for this session all reach different audiences with strong environmental messages and content. This includes reaching disabled users of public transit, students with environmental marketing issues, publics with climate change impacts on Hudson River wetlands systems. Methods of reaching audiences include public participation, environmental marketing, and computer imaging, respectively.

John Perkins, PhD Professor Emeritus, Evergreen College: Moderator

Stephanie Roberts, Parsons Brinckerhoff: *Regaining and retaining independence with transit: The advantages of early outreach to those with disabilities during the decision-making process.*

Brandon Pelissero, Ecolink Inc: *The Most Powerful Environmental Protection is an Educated Citizen.*

Rick Lovel, HDR Engineering, Inc: *Interpreting Sea Level Rise Effects in Wetlands: The Hudson River Climate Change Visualization Tool*

Watershed and Land Management

Session 4: Climate Change Adaptation and Watershed Planning in the Western U.S. -- Case Study: Stream Restoration in the Arkansas Headwaters Recreation Area, CO - Panel

Room: Tower D

Analysis by the Intergovernmental Panel on Climate Change and the U.S. Climate Change Science Program has linked climate change to the Western United States. Scientific consensus suggests that more intense precipitation events are very likely to increase in frequency in the region thereby increasing flood risk with high level of statistical confidence. This panel will discuss how watershed planning habitat restoration design and mitigation processes in the intermountain west should include long-term, climate change adaptation as part of a more holistic land management approach, which would parallel evolving regulatory trends at the national and international level.

Darcey Rosenblatt, Environmental Science Associates: Moderator

Matthew Wilson, PhD, CH2M Hill

Thomas V. Cech, Central Colorado Water Conservancy District

Carolyn J. Browning, ICF International

11:45 am – 1:15 pm

Room: Grand Ballroom

NAEP Door Prize Drawing and Service Awards

NAEP Environmental Excellence Award Presentations:

★**President’s Award:** Comprehensive Ecosystem-Based Amendment 1 for Southeast Atlantic Region, South Atlantic Fishery Management Council

★**Environmental Stewardship Award** – General Waste Products, Inc., Main Yard Site Remediation Project, Greenway and Remediation Trust

★**Environmental Management Award:** Lyons Cement Plant “Above and Beyond” Program. CEMEX Lyons Cement Plant



Keynote Speaker: Mr. Jim Evanoff, Yellowstone National Park

Sustaining Yellowstone National Park: A 139 Year Journey

Yellowstone National Park created the "Greening of Yellowstone" concept in 1995. Since then, the park has made remarkable progress in promoting sustainable practices and advancing sound environmental stewardship initiatives. The presentation will focus on the challenges of collaborating with both public and private entities to ensure success in instituting unique environmental programs. Jim will take you on a journey into the parks rich history and how Yellowstone has emerged as a leader in the national park system for instituting sustainable practices into the future.

1:45 pm – 3:15 pm

NEPA

Session 5: NEPA and Climate Change - Panel

Room: Windows

This panel session will provide an update on this rapidly-evolving area of NEPA practice. Panelists will provide an overview of the latest climate change science and climate change policy developments. Next, an overview of recent NEPA court decisions involving climate change issues will be discussed. The session will conclude with a discussion of the implications of these developments for NEPA practice, including the latest guidance from the White House Council on Environmental Quality (CEQ).

Michael Smith, ICF International

Ron Bass, ICF International

Horst Greczmiel, Council on Environmental Quality

1:45 pm – 3:15 pm

Environmental Regulations

Session 6: EPA and Air Regulations - Panel

Room: Tower B

This session will benefit federal, state, and local government attendees; industry/corporate attendees; attendees from environmental non-profits/NGOs; and students pursuing environmental degrees. The first presentation will provide an overview of the EPA's proposed rules (June 2010) to regulate coal combustion products, including fly ash, bottom ash, slag, flue gas desulfurization or other products. The panel will discuss EPA's two alternate regulatory frameworks, the potential costs of compliance with the proposed regulations, and how these regulations could impact the economic and environmental activities for power companies -and their customers- for years to come. As "going green" becomes a social and professional standard, many public and private organizations are implementing sustainability programs that track and manage the impacts of their actions on the environment, society, and the economy. Environmental Enterprise Resource Planning (ERP) is the next step in a company's business model to ensure meeting existing environmental regulations and preparing for future regulations. The second presentation will draw on real-world examples from complex organizations such as American Electric Power, DuPont and Georgia Pacific, to explain the multitude of environmental concerns companies face in addition to CO₂, as well as elaborate on different kinds of key performance indicators. Participants will learn the steps that need to be taken for organizations to prepare to measure and report compliance data as well as the key components to a sound compliance reporting system that ensures meeting current and future federal regulatory guidelines.

Judith Charles, AECOM: Moderator

Steven Moon, and T. McRoy Shelly, Rogers, Townsend & Thomas: *Jackpot or Bust: Regulation of Coal Combustion Product*

Larry Goldenhersh, Enviance: *Environmental Policy and the Evolution of Environmental Enterprise Resource Planning Technology and Sustainability Professionals*

Professional Development

Session 7: Green Careers Seminar

Room: Tower C

The outlook for environmental professionals from Environmental Engineers to Brownfield Redevelopment Specialists and Environmental Scientists to Wastewater Engineers is bright. There are multiple factors currently driving the demand for environmental professionals including but not limited to changes in policies, workforce demographics, and infrastructure needs. Those factors and the desire to make a contribution to the world are compelling reasons to join this growing profession. A panel of environmental professionals will share their personal experiences and insight, opportunities within their organizations, and their knowledge on what it takes to become a successful environmental professional.

John Esson, Environmental Career Center: Moderator

Robert Henke, ICF International

Ted Wolff, Sandia National Laboratories

Heidi Pruess, Mecklenburg County, North Carolina

Art Hirsch, TerraLogic Sustainable Solutions

1:45 pm – 3:15 pm

Land & Watershed Management

Session 8: Planning for Parks

Room: Tower D

Looking at the nexus between transportation and public gathering places, these papers represent three perspectives on transportation in open space – both urban and within larger national parks.

Darcey Rosenblatt, Environmental Science Associates: Moderator

Amy Kennedy, HDR: *National Park Service Long Range Transportation Planning - Seventh Generation Thinking Learning from the Past - Planning for the Future*

Jason Longsdorf, Parsons Brinckerhoff: *Denver's 14th Street Sidewalk and Streetscape Project*

Jason Reynolds, AECOM: *San Diego Freeway Capping Projects - The Re-Birth of Urban Parks*

3:30 pm – 5:00 pm

NEPA

Session 9: NEPA Training Criteria - Panel

Room: Windows

Three members of the NAEP NEPA Working Group (Emily Johannes, Lisa Mahoney and David Mattern), along with CEQ's Horst Greczmiel, will lead a panel discussion concerning the following questions: What are the skills and associated training elements that are essential for NEPA practitioners and decision-makers to have in order to achieve professional success in NEPA? What training elements should be covered in NEPA training courses to help develop these skills? The discussion will distinguish differences between agency decision-makers and NEPA practitioners. The NEPA Working Group is also developing a draft paper with some background on how the list of training essentials was developed and how the working group envisions they could be used as guidelines for environmental professionals. This draft paper will act as a springboard to facilitate discussion. It is important to note that neither the draft paper, nor the panel discussion, will present official findings. Instead, the broader goal of the draft paper and panel discussion is to open up the issues of possible NEPA training essentials for environmental professionals to discussion among the panel and participants at the NAEP Annual Conference.

Lisa Mahoney, The Clark Group: Moderator

Emily Johannes, NOAA

Horst Greczmiel, Council on Environmental Quality

David Mattern, Parametrix

3:30 pm – 5:00 pm

Energy

Session 10: Alternative Energy on Public Lands - Panel

Room: Tower B

Lessons learned from installed and ongoing projects on solar and wind energy development and transmission case studies can be applied to current and future renewable energy development to streamline permitting and NEPA compliance; increase stakeholder coordination; and facilitate efficient and effective processes for developing wind and solar resources on BLM-administered land. How current and future renewable energy projects on public lands help meet state renewable energy portfolio standards and increasing energy demands in the US will be discussed by panel members.

Robert J. Henke, ICF International: Moderator

Robert Comer, Faegre & Benson

Mark A. Mackiewicz, BLM

Jennifer Bradford, Iberdrola Renewables

Water Resources

Session 11: Managing Expectations - Lessons Learned on Colorado Climate Change and Inter-basin Water Supply Projects - Panel

Room: Tower C

Colorado, like many other areas around the country, is experiencing an extraordinary level of activity in water supply development. After more than 20 years of primarily implementing demand management programs and relatively small water supply projects, Colorado's Front Range water suppliers now seek approvals to implement complex additions to existing inter-basin projects. These proposals have generated close public scrutiny and have required complex multi-year environmental permitting processes with rigorous analysis of water availability and hydrologic effects. The following projects will be discussed: Colorado River Water Availability Study; Moffat Collection System and Windy Gap Firming Projects Colorado; and the Arkansas, Yampa/ Green and Missouri/ Mississippi river diversions. A panel of key agency representatives will discuss these projects to compare and contrast key issues.

Blaine Dwyer, AECOM: Moderator

Dick Wolfe, Colorado State Engineer

Scott Franklin, U.S. Army Corps of Engineers

Jeff Drager, Northern Colorado Water Conservancy District

Travis Bray, Denver Water

3:30 pm – 5:00 pm

Natural/Cultural Resources

Session 12: Creative Use of Mixed Media to Mitigate Historical Resource Impacts at Military Bases - Panel
Room: Tower D

Recent Department of Defense (DoD) priorities are transforming the nation's military bases. As the result of base closures, reuse and redevelopment initiatives, many bases are rapidly changing, potentially affecting valuable cultural and historic resources. Through a multi-media presentation, our panel will describe a creative approach to protecting and mitigating the loss of resources on Joint Base Lewis McChord (JBLM), the largest military base west of the Mississippi and demonstrate the realistic benefits of creatively re-positioning historic and culturally significant facilities that meet mission requirements. Benefits include:

- Increasing awareness and appreciation of historical and cultural resources
- Improving public access to information
- Encouraging reuse and recycling of districts and facilities.

Lauren Hauck, AECOM : Moderator
Heather Miller, HR Associates
Lucy Ostrander, Stourwater Pictures
Don Sellers, Stourwater Pictures
Susan Jones, atelierjones

5:30 pm – 9:30 pm

President's Dinner: An Evening at the Denver Art Museum (Full conference registration includes this event, extra tickets are available at the conference registration desk.)

Directions are printed on page 16. There are maps available at the registration desk. Wear a coat and comfortable walking shoes.

7:00 am – 5:00 pm

Registration/Exhibits/Poster Presentation Open – Convention Lobby North and South

7:00 am – 8:00 am

Continental Breakfast – Convention Lobby North and South

7:00 am – 7:45 am

Permanent Conference Committee Meeting

Room: Windows

8:00 am – 9:30 am

Room: Grand Ballroom

NAEP Service Awards

NAEP Environmental Excellence Award Presentations:

- ★ **Planning Integration Award:** Environmental Streamlining for the I-295/I-76/NJ Rt. 42 Interchange, Camden County, NJ, New Jersey Department of Transportation
- ★ **NEPA Excellence Award** - Innovative NEPA Approach for Renewable Energy Financial Assistance under the American Recovery and Reinvestment Act, Office of the Environment, Golden Field Office, Department of Energy
- ★ **Public Involvement Award:** Aerojet Six Megawatt Solar Array and Aerojet Groundwater Extraction and Treatment Facility, Aerojet-General Corporation



Keynote Speaker: Mr. Stan Rogers, Air Force Space Command

Merging Management Philosophies to Enhance Federal Asset Management: Transforming Stove Pipes into Cylinders of Excellence

Numerous Federal statutes and Executive Orders (EO) such as EO 13327, *Federal Real Property Asset Management* and EO 13148, *Greening the Government Through Leadership in Environmental Management*, as amended by EO 13423, *Strengthening Federal Environmental, Energy, and Transportation Management* along with EO

12512, *Federal Real Property Management*, require Federal agencies to improve decision-making and financial investments in infrastructure through better appraisals of real property assets and improved cost-visibility. As such, agencies, including the Air Force, have developed supporting philosophies based on principles established through EO's and Agency policy to achieve sustainable infrastructures while using Environmental Management Systems (EMS) as the framework to manage and continually improve these sustainable practices. This merger of Government-wide philosophies with local practices and resulting paradigm enable new approaches to identify and solve problems across in-flexible budget and organizational stovepipes.

This address highlights a few of AFSPC's initiatives to ensure effective support to military mission requirements while meeting Air Force and Federal government mandates such as energy and water

Thursday, April 28

8:00 am – 9:30 am

Keynote continued

conservation, renewable energy development, greenhouse gas reduction, maximizing returns on underutilized property, consolidation of infrastructure and disposal of excess infrastructure. AFSPC initiatives include a governance structure consisting of an Asset Management Integrated Working Group (AMIWG), Program Element Integrated Product Teams (IPT), “Activity Owners” with activity-focused IPTs and tools such as Asset Management Plans (AMP), Activity Coding and Integrated Priority Lists (IPL) that bridge organizational and traditional funding stovepipes.

Thursday, April 28

9:45 am – 11:15 am

NEPA

Session 13: NEPA Legal and Policy Update

Room: Windows

This session will present an overview of the key NEPA court decisions from the past year, including those focusing on cumulative effects, alternatives and purpose and need, as well as look back at the founding policies of NEPA and how they continue to influence NEPA practice today.

Nicholas Yost, SNR Denton US LLP: Moderator

Lucinda Swartz, Lucinda Low Swartz: *Recent NEPA Cases (2010)*

Michael Smith, ICF International: *2010 NEPA Cumulative Impacts Case Law Review*

Roger Hansen, Hansen Environmental Consultants: *Reviewing NEPA's Past to Enhance Future Compliance*

9:45 am – 11:15 am

Oceans

Session 14: Current Issues in Marine Resource Management

Room: Tower B

The first presentation will discuss regional engagement and coastal and marine spatial planning in the Gulf of Mexico pertaining to the Deepwater Horizon oil release. The oil well blowout in the Gulf of Mexico and resulting environmental crisis is a stark reminder of how vulnerable our marine environments are, and how much communities and our Nation rely on healthy and resilient ocean and coastal ecosystems. The ocean, our coasts, and the Great Lakes deeply impact the lives of all Americans, whether we live and work in the country's heartland or along its shores. America's rich and productive coastal regions and waters support tens of millions of jobs and contribute trillions of dollars to the national economy each year. They also host a growing number of important activities, including recreation, science, commerce, transportation, energy development, and national security and they provide a wealth of natural resources and ecological benefits.

The second presentation concerns the Integrated Comprehensive Monitoring Program (ICMP) process. The Navy trains rigorously before entering areas of potential armed conflict, and fleet assets must practice scenarios that may be present as personnel and equipment are deployed. Training exercises must comply with a variety of Federal environmental and natural resources laws and regulations (e.g., Marine Mammal Protection Act and Endangered Species Act) that apply to the marine environment. The Navy has enhanced its marine species monitoring to more aggressively assess the impact on marine life in live-fire ranges and in areas where military readiness exercises (training exercises) are conducted. In cooperation with the National Marine Fisheries Service, the Navy implemented the Integrated Comprehensive Monitoring Program (ICMP). The ICMP provides the overarching framework for coordination of the Navy's monitoring program that will support compilation of data from specific monitoring plans as well as Navy-funded research and development studies. The ICMP is used both as: 1) a planning tool to focus Navy monitoring priorities (pursuant to environmental compliance requirements) across Navy Range Complexes and Exercises; and 2) an adaptive management tool, through the consolidation and analysis of the Navy's monitoring and watch stander data, as well as new information from other Navy programs, and other appropriate newly published information.

David Keys, CEP, NOAA Fisheries Southeast: Moderator

Cathy Tortorici, National Marine Fisheries Service: *Coastal and Marine Spatial Planning: A Resource Management Tool for the Gulf of Mexico*

Greg Fulling, HDR/e2M: *An integrated approach by the U.S. Navy for protected marine species monitoring during military readiness exercises*

Professional Development

Session 15: ABCEP Certification: Get a Job! - Panel

Room: Tower C

Job openings are scarce. Competition is fierce. Layoffs are common place. Staying in your current position, or finding a job if you don't have one, is a daunting and nerve-wracking task. Yet, there is something you can do to increase your value to your current employer or to a prospective one: become a Certified Environmental Professional. The Academy of Board Certified Environmental Professionals confers the Certified Environmental Professional (CEP) to senior managers and other qualified individuals as a way to demonstrate their professional skills and high standard of conduct. Employers often give preference to hiring CEPs. For example, an Environmental Director posting in Florida (St. Lucie County) gave preference to applicants with a CEP. In a highly competitive job market, the CEP certification can provide the edge to open a door for a job interview or to be selected for the position. If you are fortunate enough to be employed, some employers provide bonuses to current employees that increase their knowledge, skills, and abilities. For example, at HDR, Inc., bonuses have been awarded to employees successful in attaining CEP status. To assist attendees in evaluating the benefits of attaining a CEP to their job prospects and long-term employment, a panel of professionals who have obtained this certification will be assembled. Four panel members who have a variety of backgrounds, including industry, operations, government, and consulting, will describe the role that the CEP has played in their career and will explain how the value of a CEP influences job hiring decision processes in their organizations. Questions from the audience will be sought to help attendees assess the value of a CEP in their situation.

Heidi Pruess, CEP, Mecklenburg County, NC: Moderator

SunTemple Helgren, CEP, HDR

Jennifer Lundberg, CEP, Parametrix, Inc.

Joe Trnka, CEP, HDR

Heidi Pruess, CEP, Mecklenburg County, NC

Transportation

Session 16: Noise and Transportation Planning

Room: Tower D

This session describes how land use planning can help avoid traffic noise issues later on. FHWA's new rule for traffic noise impacts will be discussed to assist planners in understanding what changes have occurred in evaluating traffic noise. The second half of the session will be exploring the different environmental and land use challenges presented by airports, and the requirements and opportunities for reducing environmental impacts and promoting land use compatibility. Particular attention will be paid to airport-related noise impacts, and the current strategies for abating and mitigating noise around airports.

Stacy Woodson, PE, HR Green: Moderator

Mark Ferroni, FHWA: *Traffic Noise Impacts, What you Need to Know about the New Rule*

Daniel Reimer, Kaplan Kirsch & Rockwell LLP: *Airports and Land Use Planning – Unique Challenges of Promoting Land Use Compatibility*

11:45 am – 1:15 pm

Room: Grand Ballroom

NAEP Door Prize Drawing and Service Awards

Announcement of Educational Partnership - APU

Zirzow Student Award – Audrey Binder, US EPA



Keynote Speaker: Mr. Chris Dionigi, National Invasive Species Council

Flying Carp, Giant Snakehead, Whirling Disease, Asian Tiger, Crazy Ant, Red-eared Slider: Invasive Species or Amusement Park Rides?

Chris Dionigi is the Assistant Director of the National Invasive Species Council (NISC) staff. NISC was established by Executive Order 13112 to coordinate federal actions on invasive species and is chaired by the Secretary of the Interior, Secretary of Agriculture, and the Secretary of Commerce. Invasive species are plants, animals, and microorganisms that are not native to ecosystem under consideration that harm or are likely to harm to the environment, economy, and in some cases human health directly. Invasive species are a factor in the work of over 30 federal agencies and bureaus. They also impact Tribal, State & local governments and the private resources. Yet, they are not the sole responsibility of any single agency. In addition, invasive species are a consideration in most if not all large-scale environmental/public infrastructure and environmental restoration projects. Despite this complexity, the steps to prevent their introduction and spread are remarkably similar. The presentation will provide a brief overview of invasive species, federal invasive species responsibilities, and general approaches to halting their introduction and spread.

1:45 pm – 3:15 pm

NEPA

Session 17: NEPA Compliance and Renewable Energy - Paradox or Possibility? - Panel

Room: Windows

Federal and state policies are promoting the development of renewable energy, including solar, wind, geothermal, and biomass. Within the 11 continental western states, it is estimated that over 7,000 megawatts of renewable energy could be developed on federal lands in the near future. The Western Governors Association and others have identified greater long-term potential. However, many have expressed concerns that a combination of federal regulatory processes and agency priorities are major barriers delaying the permitting of transmission facilities and renewable energy projects. It has also been noted that while renewable energy projects tend to have smaller cumulative life-cycle impacts than more traditional sources, they still have effects that must be accounted for in making siting determinations. This panel will focus on the role of NEPA compliance on applications for renewable energy projects on federal lands. Topics to be discussed include the following:

- Results of a recent EMPSi survey on renewable energy and constraints to development on federal lands.
- Application and effectiveness of programmatic documents, including the Geothermal Leasing PEIS, Solar PEIS, and Wind PEIS.
- Challenges and trends in NEPA analysis for renewable energy projects.
- Collaborative processes to obtain success.
- Provide tools for streamlining the compliance process.
- Case study of proactive planning for siting future projects: the Arizona Restoration Design Energy Project.

David Batts, EMPSi: Moderator

Shannon Stewart, Bureau of Land Management

Robert Cunningham, US Forest Service

Kathy Pedrick, Arizona Restoration Design Energy Project

1:45 pm – 3:15 pm

Oceans

Session 18: Deep Water Horizon Oil Release Response and Recovery - Panel

Room: Tower B

This panel will discuss all aspects of the environmental response and consequences to the oil release and resultant actions. It will also discuss the future cleanup and recovery actions and the potential consequences to the regulatory environment for oil and gas exploration and development in the U.S. The Deep Water Horizon drilling rig exploded and caught fire on April 20, 2010 while in the final stages of drilling an exploratory well at the Macondo Prospect (Mississippi Canyon Block 252), about 41 miles (66 km) off the southeast coast of Louisiana, at a water depth of approximately 5,000 feet (1,500 m). The rig sank to the bottom causing a separation with the well and release of crude oil and gases near the sea floor bottom. The resultant oil spill continued until July 15, 2010 when it was temporarily closed by a cap. During the release, the decision was made to pump dispersant into the released oil at the wellhead near the sea floor bottom. The spill has had the potential to cause massive damage to the ecosystem of the Gulf of Mexico coast and waters. Some estimates of the spill make this the largest oil spill ever in the Gulf of Mexico and US history. The resultant response and recovery has occurred through the Incident Command System. Response and recovery actions have been occurring at the federal, multiple states, and multiple local jurisdictions levels leading to confusion and potential environmental impacts. There are ongoing environmental efforts for the response, recovery, and understanding of the natural resource damage. The Minerals Management Service was renamed on 18 June 2010 to the Bureau of Ocean Energy Management, Regulation and Enforcement and has undergone changes in regulation of offshore oil and gas development.

Don Deis, CEP, ATKINS: Moderator

Debora Scholz, SEA Consulting

Rhonda Murgatroyd, Wildlife Response Services, LLC

Scott Zengel, PBS&J

Jamie Holmes, Stratus Consulting

Brownfields

Session 19: Bio/Chemical Brownfield Remediation and the Quest for Alternative Funding

Room: Tower C

Brownfield development has become an important tool in the environmental cleanup of former industrial sites. The push toward sustainability and responsible development instead of continued sprawl and abandonment of contaminated sites is no longer a viable alternative for the United States or the World. Emphasis in Brownfield identification, remediation, and funding these activities will be the future in most American cities trying to improve their environment, their land use, their tax base, their employment, and their economy.

This first of two Brownfield sessions will introduce a technique for in-situ chemical and bio-chemical treatment of soil and groundwater associated with the development of a Brownfield site. Known by another name from oil field redevelopment, hydro-fracking as an injection treatment can have positive impacts on Brownfield properties at the subsurface level. This is different from many Brownfield Developments where the contamination is more often removed or sealed in place rather than treated as part of the

1:45 pm – 3:15 pm

redevelopment planning. As with all of our conference sessions, there will be an aspect of multidisciplinary cooperation that will be discussed as part of these fracking presentations.

In the same session, we will also look at the means to search for, discover and maximize funding sources that are to be used for Brownfield remediation. Some case studies will emphasize that a single source of funds is not always the answer to full Brownfield remediation and that maximization of funds may at times mean innovative thinking and techniques. include alternative funding in the remediation of Brownfield development. Each of the presentations will have specific case studies from which all aspects a Brownfield development project can be discussed and better understood.

Paul B. Looney, CEP, CSE, PWS; Volkert, Inc.: Moderator

John Fontana, Vista GeoScience: *Subsurface Injection Technologies and Monitoring Systems for In-Situ Chemical and Bio-Chemical Remediation Systems – It's a Contact Sport*

Vincent Barlock, USA Environmental LP: *Case Studies in the use of Hydraulic Fracturing to In-Situ Chemical and Bio-Remediation of Brown Field & Hydrocarbon-Impacted Sites*

Michael Goodstein, Hunsucker Goodstein & Nelson : *Brownfield Remediation: Strategies and Case Studies That Maximize Limited Resources through Alternative Funding Sources*

Transportation

Session 20: Sustainable High Speed Rail - Panel

Room: Tower D

If High Speed Rail (HSR) is this century's interstate highway system, how can different states programs achieve measurable sustainability outcomes? What sustainable outcomes are assumed or planned into different systems? HSR stations have the potential to be anchors for regional eco-districts, but that desired outcome occurs as the result of planned and implemented policies. This panel will supply quantitative and qualitative presentations on how HSR programs help achieve GHG reduction and sustainability plan goals. The extensive planning being done to create a high speed rail system that will help balance the US transportation system is conceived as promoting livable communities, facilitating economic expansion, and respecting environmental sustainability. This panel will discuss ongoing efforts in several states along with expected, quantitative results from these plans and designs, including how HSR systems markedly improve or achieve social and environmental targets. California HSR program is well advanced in planning, and is characterized by some aggressive sustainability goals: operating entirely on renewable energy, incorporating recycled content into major components, TOD guidelines for station areas, and environmental mitigation. Other HSR programs have a constellation of sustainability goals that match their specific regional economic, environmental, and demographic makeup. In addition, the session will clarify how the choice of rail technology and planning can affect specific sustainability targets. This panel session will feature current practice GHG emissions modeling, as well as TOD guidelines for HSR nodes, and infrastructure sustainability evaluation methodologies.

Mark Cheskey, Parsons Brinckerhoff: Moderator

Edward Campbell, Parsons Brinckerhoff

Alice Lovegrove and Edward Tadross, Parsons Brinckerhoff

Margaret Cederth, Parsons Brinckerhoff

3:30 pm – 5:00 pm

NEPA

Session 21: Considering the No-Action Alternative: Theory and Practice

Room: Windows

The no-action alternative is a required part of all NEPA documents (40 CFR 1502.14(d)), but despite further explanation in CEQ's 40 questions, in practice how no-action is formed and used varies widely. The no-action alternative should be the basis for comparison and therefore critical in evaluating the direct and cumulative effects of an action. Increased attention on climate change brings into question how the long-term effects no action should be projected. In practice the rigor with which the no-action alternative is formulated and evaluated varies widely. If our real purpose under NEPA is to provide the decision maker useful information, how should the no-action alternative be formulated? How should no-action be considered for failing infrastructure projects where no-action means a facility would be permanently closed? These questions and others will be addressed by a panel of NEPA experts from a range of agencies and practices.

David Mattern, Parametrix: Moderator

David Mattern, Parametrix

Michael Smith, ICF International

Lamar Smith, Federal Highway Administration

Wetlands Restoration/Mitigation

Session 22: Wetlands Restoration/Mitigation

Room: Tower B

Wetland restoration can be challenging, but it is an essential tool in the ecological landscape that improves the health of the environment and can be used to increase public awareness. In addition, wetland mitigation is vital for off-setting unavoidable impacts and proper design. Success criteria will result in success. This year, three presentations are scheduled that will cover these ideas through three examples. The first is a detailed examination of a salt marsh restoration project. The next two will look at how a watershed approach was utilized to prepare a mitigation plan and explore the evolution of success criteria as it relates to the release of credits for wetland mitigation banks.

David Dickson, Environmental Services Inc.: Moderator

John Roebig, HDR: *Restoring a Salt Marsh in a Highly Urbanized Environment of New York City; The Alley Park Pond Restoration Project*

Alex Pulley, Felsburg Holt & Ullevig: *Embracing and Incorporating the Watershed Approach to Wetland Mitigation: US 36 Environmental Impact Statement Wetland Mitigation Design*

Ryan Taylor, Environmental Services Inc.: *Wetland Mitigation Banking Success Criteria - The evolution of success criteria for credit release and the associated quantitative and qualitative monitoring methodologies: A Florida perspective*

3:30 pm – 5:00 pm

Brownfields

Session 23: Theory and Application of Green House Gas Legislation

Room: Tower C

The second Brownfield session gets more specific about the new legal strictures concerning Greenhouse Gas Legislation. This important change in legislation can potentially affect all of the aspects of the environmental professions. Our first presentation will cover all aspects of GHG legislation and deals with those that are not initially obvious. Is this legislation specifically applicable to Brownfield development? Our second paper will actually use the calculation of greenhouse gas emissions in determining whether a Brownfield in downtown Pittsburgh is environmentally comparable to development of a “green” site away from town. Using a program developed at Carnegie Mellon University: “Economic Input-Output Life Cycle Assessment,” the analysis helps determine the entire life cycle of development where Brownfield is a choice instead of new development and continued urban sprawl. Finally, we will look at the use of brownfields as the location of renewable energy production. The development of Superfund sites, brownfields, and former landfill or mining sites appear to be well suited to the land intensive development of alternative energies, specifically for Solar Energy.

Paul B. Looney, CEP, CSE, PWS; Volkert, Inc.: Moderator

Hubert Gallagher, TTI Environmental, Inc.: *Mandatory Green House Gas Reporting Are you sure you're not Applicable?*

Yeganeh Mashayekh, Carnegie Mellon University: *Evaluating Environmental Emission of Pittsburgh Brownfields*

Steve Birndorf, Borrego Solar Systems: *Solar on Brownfields – An untapped opportunity to reduce Greenhouse Gas Emissions*

Transportation

Session 24: Livability and Planning Strategies - Panel

Room: Tower D

Session attendees will learn how livable, sustainable, and context sensitive design solutions are being integrated into transportation planning, non-traditional funding strategies, and the challenges and successes of implementation of these principles. In addition, this session will explore how these principles are shaping future legislation to construct sustainable and maintainable infrastructure in states on the forefront of this initiative.

Art Hirsch, TerraLogic: Moderator

Jack Broz, PE and Ross Harris, AICP, Howard R Green Company: *Transportation Livability & Sustainability Strategies – Challenges & Opportunities for Sustainable Transportation Systems*

Thursday, April 28

5:00 pm – 6:00 pm

NEPA Working Group Meeting

Room: Windows

Transportation Working Group Meeting

Room: Tower B

2012 Conference Committee Meeting

Room: Tower C

E2P Committee Meeting

Room: Tower D

5:00 pm – 7:00 pm

Happy Hour at Katie Mullen's

Drinks & hor d'oeuvres courtesy of Hunsucker Goodstein and Nelson PC

Please join environmental professionals from around the country, as well as those from local organizations, in celebration of another productive year of tackling environmental challenges. Network and exchange information with colleagues in industry, government, academia, and the private sector.

7:00 am – 5:00 pm

Registration/Exhibits/Poster Presentation Open – Convention Lobby North and South

8:00 am – 9:30 am – Hot Topic Breakfast

(pick up your food from 7:30 – 8:00 and proceed to the room of your choice)

Sustainability

Hot Topic Breakfast #1: To Lean or Not to Lean? The Other P2 is Profit Protection

Room: Windows

P2 needs a branding makeover. Pollution Prevention is simply not getting the job done for sustainability. Shrinking government agency budgets have reduced or eliminated programming and outreach efforts. Economic uncertainty compounds the problem and all but eliminates any capital investments that do not deliver a payback of 2 years or less. During this Hot Topic Breakfast, participants will learn how a small business partnered with their regional EPA office and state P2 program on a "Lean & Green" event that delivered real monetary (cash) and energy savings while creating a sustainable infrastructure.

Mark Gander, AECOM: Moderator

Brandon Pelissero, Ecolink Inc.

Current Events Forum

Hot Topic Breakfast #2: Open forum

Tower B

This will be a free-form Hot Topic Breakfast to discuss current events as they relate to the environmental field. Issues to consider include the damage to Japan after the recent tsunami, the effects of war on environmental health and well-fare of people in Libya, or something else recent and more local.

Additionally, participants are welcome to suggest topics from previous sessions of the conference that they would like to discuss further.

Jennifer Lundberg, Parametrix: Moderator

Professional Development

Hot Topic Breakfast #3: Body of Knowledge for Environmental Professionals

Room: Tower C

The Academy of Board Certified Environmental Professionals will lead a panel of experts with expertise in five areas in which an environmental professional might practice: Environmental Assessment, Environmental Documentation, Environmental Operations, Environmental Planning, and Environmental Research & Education. Each expert will describe the updated body of knowledge identified by the Academy, the inputs received, and the next steps needed to make this information more useful and complete. Input from the audience will be sought. Discussions will consider the best methods for reporting the information assembled.

Richard Burke, CEP, ARCADIS: Moderator

Donald Deis, CEP, ATKINS: *Environmental Assessment and Research & Education*

Gary Kelman, CEP, MD Department of the Environment: *Environmental Operations and Planning*

Richard Burke, CEP, ARCADIS: *Environmental Documentation*

**8:00 am – 9:30 am – Hot Topic Breakfast
(pick up your food from 7:30 – 8:00 and proceed to the room of your choice)**

Transportation

Hot Topic Breakfast #4: Emerging Trends in Environmental Justice

Room: Tower D

Nationally, more and more tolled roadways are being evaluated, proposed, and built as state transportation departments (DOTs) work to provide sound funding sources for needed transportation infrastructure. Tolling scenarios range from traditional toll roads and toll bridges where all lanes of a highway are tolled, to congestion management approaches such as high occupancy toll lanes (HOT lanes) and other pricing structures. Not surprisingly these proposed facilities have generated many questions for the Federal Highway Administration and state DOTs as they figure out how possible effects to low-income and minority populations should be evaluated under NEPA and what constitutes an effect. Transportation agencies are not the only agencies wrestling with how to implement Executive Order 12898. In fact, a cabinet-level working group on environmental justice has recently been reinstated to review and update strategies for addressing disproportionate environmental impacts on poor, minority, or tribal communities. This presentation will focus on emerging trends in environmental justice analysis as it pertains to proposed highway tolling projects. Specifically, this presentation will collect and summarize recent environmental studies on proposed tolling projects in different states to see how different DOTs are approaching the question of does paying a toll have disproportionately high and adverse effect to low-income highway users. For example, the environmental justice finding for the SR 520: I-5 to Medina Bridge Replacement and HOV Project determined that tolling all lanes on the SR 520 bridge would result in a disproportionately high and adverse effect to low-income populations because the toll (regardless of the price) would represent a higher percentage of a low-income persons income (WSDOT et al 2010). This finding brings up obvious questions for all transportation NEPA practitioners. The intent of this presentation will be to provide information on other environmental justice determinations to help inform continued dialogue on this emerging topic.

Stacy Woodson, HR Green: Moderator

Stephanie Miller, Parametrix: *Emerging Trends Related to Environmental Justice and Highway Tolling Projects*

NEPA

Session 25: Potential Ways to Strengthen the National Environmental Policy Act of 1969 - Panel
Room: Windows

This panel opens a pragmatic debate concerning how to improve the implementation of the National Environmental Policy Act (NEPA) of 1969. To achieve NEPA's intent is a more difficult task today than it was when it was passed in 1969. Today, there is no question that NEPA caused a major reorientation in the federal government's environmental review procedures by incorporating a discussion of environmental values. While some programs and projects have no doubt been altered for the better due to the NEPA process, these instances have not been consistently maintained over time. Further, such past successes are now faced with growing challenges when viewed in relation to current and future needs.

The panel consists of three experienced NEPA practitioners with over 80 years of combined NEPA practice reviewing, editing, and/or writing hundreds of NEPA documents. The panelists are not administrators, but front-line NEPA practitioners, which is the vantage point the panel uses. The panel will provide an overview of Professor Lynton K. Caldwell's seven ideas for strengthening NEPA. In addition, the panel will review the NEPA Task Force Report to the Council on Environmental Quality, *Modernizing NEPA Implementation*, September 2003, focusing primarily on programmatic analyses and environmental assessment needs. After the overview, the panelists will discuss three possible ways to improve NEPA's implementation:

(1) An analytical perspective on where the CEQ NEPA Regulations may be improved. The framers of the CEQ NEPA Regulations performed a Herculean effort writing the regulations in 1978 as required by Executive Order 11991, May 24, 1977, and they had a tremendous affect, but they could not envision everything that would happen throughout the years. NEPA implementation has changed considerably since 1978. The panel will offer suggestions as to precisely where the CEQ Regulations need clarification or further specification and how these changes might realistically be accomplished.

(2) A best practices approach for EAs, programmatic documents, and cumulative effects assessment. NEPA compliance has traditionally been driven by professional practice (experience-based), case law (litigation-based), and reviews of prior relevant documents (practice-based). Now is an opportune time for these bases to be integrated and compiled into succinct "best practice principles" (BPPs) related to two types of compliance documents (EAs and Programmatic EISs or EAs) and one topical issue (cumulative effects assessment). Such BPPs should be initially developed by practitioners within NAEP rather than policy-makers and high-level bureaucrats. The advantages and limitations of the above BPPs will be noted along with practical suggestions for their development. Delineation of such BPPs will provide an initial cornerstone for strengthening NEPA.

(3) Refocusing NEPA practice to meet changing project needs. As projects accelerate and change in midstream, old ways of conducting the NEPA process and preparing EAs and EISs must change. Too often the change is unplanned and managed in a reactive way, because it is forced unexpectedly upon the NEPA team by decisions driven by realities beyond its control. But the team can anticipate, plan for, and manage change in ways that do not delay the project or require regulatory remedies. The panel will discuss ways to plan and structure the NEPA process so that change is managed adaptively and flexibly without weakening the technical rigor or legal defensibility of the final product.

Sam Atkinson, University of North Texas: Moderator
David Keys, CEP, NOAA Fisheries Southeast
Larry Canter, Environmental Impact Training
Robert G. Senner, CH2M Hill

9:45 am –11:15 am

Public Participation

Session 26: Making the Most of Public Involvement Dollars - Panel

Room: Tower B

States and cities are facing tight budgets and intense competition for federal dollars, as well as high expectations among increasingly educated and passionate interest groups and citizens. The public involvement process must provide opportunities for public input, review, and comment at key decision points, with adequate public notice and access to underlying technical and policy information. In this environment, the resources of a project devoted to public involvement activities must be well planned and carefully allocated to get the biggest bang for the buck and ensure that the process is inclusive, relevant, timely, and, in a word, meaningful -- for all stakeholders. Three planning professionals with 100+years of combined experience guiding transportation projects through the project development/delivery process will share case studies and examples from their own experiences with both traditional and less traditional tools. The panelists will describe successes -- and failures -- with a variety of methods such as stakeholder advisory committees, public workshops, formal meetings, focus groups, printed and electronic materials, webinars, and surveys. The panelists will discuss how to make the standard public meetings and hearings more productive and meaningful, and will offer suggestions on how to keep the overall costs of a proactive public involvement plan reasonable. Panelists will focus on dealing with two opposite but common public reactions to outreach efforts: general apathy on the one hand, and overly enthusiastic (and even antagonistic) reactions on the other hand. Panelists will cite examples and principles of how to draw the most success from both types of reaction. The final portion of the session will be set up as The Doctor is in.

Valerie Birch, AICP, Parsons Brinckerhoff: Moderator

Nancy Skinner, AICP, Parsons Brinckerhoff

Arnold Bloch, Ph.D., Howard/ Stein-Hudson Associates, Inc.

Diane Nulton, McCormick Taylor

Natural/Cultural Resources

Session 27: Streamlining Historic Preservation & NEPA Compliance - Panel

Room: Tower C

This session looks at alternative methods for meeting historic preservation regulatory responsibilities while also meeting NEPA requirements. The session will begin with a discussion on the differences and similarities of NEPA and NHPA, and opportunities for satisfying Section 106 of the National Historic Preservation Act (NHPA) while streamlining NEPA compliance. Use of EPA substitution and Section 106 program alternatives will be discussed. Next, we will examine a case study of a transportation project in Nevada that applied some of these approaches. Finally, we'll end with a case study on modifying a historic structure for public safety reasons and meeting environmental regulations including historic preservation. Issues with identifying funding for historic preservation will also be discussed.

Marjorie Nowick, HDR EOC: Moderator

Mark Demuth, Western Cultural Resource Management, Inc.

Julia Mates, Tetra Tech

9:45 am –11:15 am

Transportation

Session 28: Sustainable Roadways

Room: Tower D

Integration of Sustainable Highway Design by the Colorado Department of Transportation Using the NYDOT GreenLITES Process

Instituting sustainability into transportation processes is an area of interest of many State DOTs, municipal transportation departments and the Federal Highway Administration. Many State DOT engineering managers claim to endorse sustainability without really understanding the sustainability concept, how to successfully integrate it into their transportation processes or even fully endorsing the concept. To really develop and implement a cost effective transportation sustainability program, sustainable design elements must be identified early in the design scoping phase of the project (with management support) as opposed to later in the design process where sustainable design elements are simply considered an afterthought. TerraLogic and PBS&J are supporting the Colorado Department of Transportation (CDOT) in taking a proactive approach toward integrating sustainability elements into their transportation design practices. CDOT is currently test driving the New York State Department of Transportation's GreenLITES (Leadership In Transportation and Environmental Sustainability) process, which is an internal sustainability rating and certification process for transportation designs. CDOT is using this model on two Interstate 70 interchange design projects to determine how well the GreenLITES sustainability process can be integrated into CDOT transportation projects state-wide. TerraLogic, in teaming cooperation with PBS&J, is working with the CDOT Environmental Programs Branch and Region 3 (Eagle Residency) for this GreenLITES Project. The Edwards-Interstate 70 Interchange, located west of Vail, Colorado, is being used as a baseline condition where the design did not contain any preconceived sustainability actions developed by the Project Design Team. The test project is the Eagle-Interstate 70 Interchange. Both of these interchange projects are very similar in design scope, size and environmental sensitivity. TerraLogic and PBS&J are currently facilitating and coordinating the GreenLITES meetings for CDOT. The NYDOT GreenLITES evaluation checklist was initially modified to eliminate requirements unique to the NYDOT (www.nysdot.gov/programs). The CDOT/NYDOT GreenLITES evaluation and scoring centers on five GreenLITES certification categories: 1) sustainable sites, 2) water quality, 3) materials and resources, 4) energy and atmosphere, and 5) innovation. Art Hirsch (TerraLogic) and Carrie Wallis (PBS&J) will co-present this presentation. The presentation will discuss the implementation process, the design team observations and challenges, and highlight recommendations given to CDOT in order to incorporate this sustainable design process state-side. These lessons learned will be informative to those environmental professionals trying to better integrate sustainable elements into final designs.

Ross Harris, AICP, Howard R Green Company: Moderator

Arthur Hirsch, TerraLogic and Carrie Wallis, PBS&J: *Integration of Sustainable Highway Design by the Colorado Department of Transportation Using the NYDOT GreenLITES Process*

Lindsey Sousa and Kara Swanson, Parsons Brinckerhoff: *Measuring Sustainable Transportation through Green Rating Systems*

Kimberley Schott and Ayman Hama, University of Colorado - Pueblo: *Sustainable Rest Areas Evaluations and Carbon Neutrality*

11:30 am – 1:15 am

Room: Grand Ballroom

NAEP Door Prize

NAEP Membership Meeting



Keynote Speaker: Mr. Tseming Yang, USEPA

Environmentalism with Chinese Characteristics: A View on China's Developing System of Environmental Protection

Since China began its policy of opening up to the outside world in the late 1970s, its image has increasingly been defined not only by its economic progress but also the environmental challenges that have accompanied its rise. China's cities rank among the most polluted in the world, one tenth of its arable land is thought to be contaminated with toxics, and its greenhouse gas emissions now lead those of all other countries. Over the past two decades, the Chinese government has begun to incorporate pollution reduction targets into its 5-year plans, enacted numerous environmental laws, and adopted some of the world's most stringent pollution control standards. Yet, environmental problems continue to be significant causes of social unrest, and, according to a 2007 World Bank study, water and air pollution alone are estimated to cost the Chinese economy about \$100 billion each year, or 5.8% of GDP.

Remarkably, China has been among the countries that have actively sought to adopt the lessons of environmental protection from other countries, engaging in a wide-ranging and active search for models to adopt for its system. At the same time, it also has continued to emphasize the unique Chinese characteristics of its system when considering policy solutions for its environmental challenges. While it may not be possible to predict the precise development trajectory of its environmental protection system, a look at current developments and some of the underlying characteristics of China's governance system provide a better picture of current and future challenges.

1:30 pm – 3:00 pm

NEPA

Session 29: Tools and Techniques for NEPA Document Oversight and Review

Room: Windows

NEPA practitioners who review NEPA documents (EAs, draft and final EISs, and RODs) at any stage in the process scoping, early drafts, draft, submitted by contractors for adoption, etc. may wish to compare the document against what should be there, according to models, checklists, and other information. NEPA practitioners need efficient and practical access to these models and checklists. Experienced panel members will share their tools and techniques for review of NEPA documents before they are published for public and agency review. Methods would also apply after NEPA documents are published.

Owen Schmidt, Owen L Schmidt LLC: Moderator

Danny Rienke, U.S. Air Force

Owen Schmidt, Owen L Schmidt LLC

1:30 pm –3:00 pm

Environmental Regulations

Session 30: Multi-Regulatory Compliance

Room: Tower B

This session includes presentations of two projects located in California: the Nacimiento Water Project in San Luis Obispo County, and the seismic retrofit of the Golden Gate Bridge in San Francisco. The NWP included 45 miles of pipelines, pump stations, and five construction contracts, and was completed in late 2010. Employing different construction techniques, crossing over multiple streams and rivers, federal and local jurisdictions, and habitat for six endangered species, the NWP required the full suite of environmental permits. The Golden Gate Bridge Highway and Transportation District has been engaged for the last decade in extensive engineering work on the Golden Gate Bridge to upgrade the bridge's ability to withstand a large seismic event. This presentation will describe highlights of the project beginning with the joint NEPA/CEQA compliance effort completed in the mid-1990s, focusing on efforts to meet the requirements of the Endangered Species Act, the Clean Water Act and the Historic Preservation Act. How these compliance efforts have been manifest into monitoring ongoing seismic retrofit construction will be reviewed.

Darcey Rosenblatt, ESA: Moderator

Thomas Roberts, ESA: *Managing Compliance With Environmental Permit Conditions On A 45-Mile Pipeline In California: Problems And Solutions*

Darcey Rosenblatt, ESA: *Regulatory Compliance for a National Landmark - Seismic Retrofit of the Golden Gate Bridge*

Natural/Cultural Resources

Session 31: Old Trails, New Challenges: 16th, 17th, and 18th Century National Historic Trails in the 21st Century - Panel

Room: Tower C

America's National Historic Trails are congressionally designated routes echoing the major overland travels of the historic period that shaped what is now the western United States. The Department of Interior Bureau of Land Management (BLM) administers three National Historic Trails and manages 5,342 miles of national historic trail routes on the public lands. These trails commemorate significant developments and events in American history and they contain unique, irreplaceable resources. Today, most long-distance trails in the West are becoming an increasingly important resource with the advent of wind and solar energy development and related transmission infrastructure. Because these trails have heritage, recreation, and archaeological values, historic routes and their associated resources are challenging to deal with using conventional cultural resource management tools. This panel will focus on a 600-mile BLM initiative to conduct archival and background research, field inventories, and develop consistent standards for trail resource documentation and new management approaches for high potential route segments and high potential historic sites associated with El Camino Real de Tierra Adentro National Historic Trail, the Old Spanish National Historic Trail, the California National Historic Trail, the Oregon National Historic Trail, the Mormon Pioneer National Historic Trail, and the Pony Express National Historic Trail.

Sarah Schlanger, BLM: Moderator

Tom Keith, AECOM

Jeremy Call, AECOM

Bruce Meighen, AECOM

1:30 pm –3:00 pm

Transportation

Session 32: Every Day Counts: Can Planning & Environmental Linkages Move from Niche to Standard Practice? - Panel

Room: Tower D

This panel will discuss the benefits and difficulties in linking the transportation planning process and the National Environmental Policy Act (NEPA). Beginning with the passage of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) and continuing through the adoption of the Safe Accountable Flexible Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), recent transportation legislation has placed an emphasis on improving the linkage between transportation planning and the National Environmental Policy Act (NEPA). This emphasis has led to greater consideration of environmental factors during the planning stage, increased communication and cooperation between transportation and environmental resource agencies, and the inclusion of environmental performance measures in state-wide and metropolitan area plans. Additional steps taken, including the adoption of a context sensitive solutions approach to project development and the use of geographic information systems, by many state and regional transportation agencies have resulted in better project-level decisions and the avoidance or protection of environmentally sensitive areas. However, while linking the planning and environmental processes has many benefits, state and regional transportation agencies must also make timely planning decisions, control administrative and project costs, and support other transportation goals, such as mobility, efficient transportation, and economic development. As discussion regarding future transportation legislation continues, it is clear that the link between the planning and environmental processes will continue to be a critical component of all current and future transportation decisions, both on an individual project basis, as well as within the context of broader issues. As we move forward, the evaluation of environmental impacts (i.e., air quality, socioeconomic, energy consumption, water quality, storm water runoff, etc.) will need to be considered not only at the project-level, but also in the context of more far-reaching and complex issues such as livability, sustainability, and climate change. The panel will present real-world examples, methods, and approaches that are being undertaken in Colorado, Tennessee, North Carolina, and other states to better integrate the transportation planning and environmental processes. Successfully linking the planning and environmental processes has resulted in improved decisions, better outcomes, and other benefits, not only for the transportation agency, but also for the community.

Ross Harris, HR Green: Moderator
Jeanne Stevens, State of Tennessee
Teresa Townsend, Planning Communities LLC
F. Yates Oppermann, CDOT
Doug Delaney, Parsons Brinckerhoff

3:15 pm – 4:45 pm

NEPA

Session 33: Macro (Static) versus Micro (Dynamic) Modeling in a Densely Populated Urbanized Environment - Panel

Room: Windows

Air quality and noise models used to predict future conditions are now able to provide us with a higher level of confidence in projected results. As technology advances, the modeler is being provided with an ever increasing ability to input a variety of parameters to more accurately represent the existing and/or future conditions. However, it is up to the modeler, and the client, to understand the benefits of using these opportunities and collaborate with other technical fields in lieu of the previously used overly conservative assumptions and methodology.

HDR provides air quality and noise modeling services to its clients for many purposes, including environmental review and permitting. In the past few years, the HDR New York department has performed air quality and noise modeling services for three distinct facilities located in a densely populated urbanized area for a high level client. Previously, conservative assumptions such as macroscopic (or static) truck arrival patterns and on-site truck queuing conditions were performed to analyze the air quality and noise that would be emitted by the proposed facilities due to the proposed action. However, through the use of microsimulation (or dynamic movement of vehicles), a more robust truck queuing analysis was prepared for these specific facilities, providing a more realistic representation of both existing and future conditions. The output from the microsimulation models which included truck arrival patterns and on-site truck queuing conditions was inputted into the CADNaA (Computer Aided Noise Abatement) noise model, a spreadsheet noise model or the American Meteorological Society (AMS) and EPA Regulatory Model (AERMOD) modeling system. The results to be discussed include a comparison of macroscopic and microsimulation truck queuing analyses for each of the three facilities.

By more accurately calibrating the existing modeled conditions, as well as more accurately predicting the future conditions with the proposed action, the HDR project team has been able to demonstrate that the proposed facilities would be in compliance with the applicable standards and guidelines. Although past practices used for this client have been to start with an overly conservative approach and to refine on an as needed basis, the HDR project team plans to move forward in the future for similar projects by including a microsimulation based truck queuing analysis as part of the typical scope of work needed for air quality and noise analyses for stationary facilities. This approach will not only benefit the client by providing more realistic modeling results, but will also reduce the project cost by limiting the number for model reruns for refinements.

G. Noemi Santiago, HDR Inc.: Moderator

G. Noemi Santiago, HDR Inc.

Luigi Casinelli, HDR Inc.

3:15 pm – 4:45 pm

Energy

Session 34: Using Sophisticated Decision Making Tools in Long-Term Sustainability Planning - Panel
Room: Tower B

Mitigating community greenhouse gas (GHG) emissions requires action at a variety of scales from neighborhood resident to high-level policymaker. Community Climate Action Plans (CAPs) is one valuable strategy that can lay the foundation to reduce GHG emissions and contribute to the overall sustainability of a community. Effective engagement with local jurisdictions and the public on sustainability issues is often a challenging process. Topics will include decision making tools for stakeholder collaboration processes with an emphasis on cost effectiveness and co-benefit analysis of key measures. These decision support systems are designed to equip staff, elected officials, and residents to understand the implications of policy alternatives and their individual actions. Three case studies will be used as a basis to elaborate on these concepts: the Union City, CA, CAP; Baltimore, MD CAP; and the Yolo County, CA CAP. The panelists consist of local government staff and consultants bringing a diverse array of perspectives to the discussion.

Christopher Clement, AECOM: Moderator
Claire Bonham-Carter, AECOM
Christopher Clement, AECOM
Kristen Lence, AECOM

Water Resources

Session 35: Recent Advances and Lessons Learned in Addressing NEPA Compliance Issues as Part of Integrated Resources Planning, Mitigation Development and Environmental Management
Room: Tower C

This session will focus on recent advances and lessons learned in addressing NEPA compliance issues as part of integrated resources planning, mitigation development and environmental management. Recent CEQ guidance and collaborative planning compliance tools will be discussed.

Betsy Shreve-Gibb, AECOM: Moderator
Laura Porter, Clean Water Services: *Using a Collaborative Environmental Process to Meet NEPA Requirements for the Tualatin Basin Water Supply Project in Northwest Oregon*
Geoffrey Elliott, Global Environmental Management Systems: *Colorado Mountain Town ARRA Stimulus Project Benefits From New CEQ Guidelines*
Charles Nicholson, PhD, Tennessee Valley Authority: *Developing a Programmatic Environmental Impact Statement for an Integrated Resource Plan*

3:15 pm – 4:45 pm

Transportation

Session 36: High Speed Rail: Opportunities & Challenges

Room: Tower D

Attendees of this session will learn about high speed rail initiatives and the state of the National High Speed Rail initiatives and vision. Information on how to complete grant applications to fund high speed rail projects will be presented. An overview of the synergies and development patterns that create an effective high speed rail system will be presented. In addition, project delivery strategies and environmental clearance progress and lessons learned will be shared for ongoing high speed rail case studies located in California and the Baltimore-Washington maglev project.

Margaret Cederoth, Parson Brinkerhoff: Moderator

Kelly Farrell, HDR: *The Need for Speed- Challenges faced while completing the environmental analysis and a service development application for a high-speed rail project.*

Mark Gander, AECOM: *High Speed Rail - Bold Vision and Grand Strategy*

Mark Cheskey, Parsons Brinckerhoff: *NEPA Compliance for a New Transportation Technology: Lessons from the Baltimore- Washington Maglev Project*

Saturday, April 30

8:00 am – noon

NAEP Board of Directors Meeting (all members welcome)

Room: HNTB office, 1600 Broadway, Suite 1300