



National Association of Environmental Professionals
41st NAEP Annual Conference

Charting the Next 40 Years of
Environmental Stewardship
FINAL PROGRAM

April 11-14, 2016
The Palmer House Hilton
Chicago, IL

Hosted by the Illinois Association of
Environmental Professionals





Built to Deliver a Better World

Contacts

Dale Shileikis
Director
Impact Assessment and
Permitting - Americas
D 415.243.3708
dale.shileikis@aecom.com

Dawn Swider
Vice President
Eastern Midwest Environment
Business Unit Lead
D 616.574.8303
dawn.swider@aecom.com

Dale Sands
Senior Vice President
Climate Adaptation and
Resilience
D 312.596.6780
dale.sands@aecom.com

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- Energy Efficiency and Carbon Management
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- Thermal and Geothermal
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Design + Planning

- Architecture
- Building Engineering
- Economics
- Environmental and Ecological Planning
- Landscape Architecture + Urban Design
- Program + Construction Management
- Strategic Planning

Transportation

- Aviation
- Highways/Bridges/Tunnels
- Planning and Advisory Services
- Ports and Marine Structures
- Transit/Freight/Rail

Water

- Community Infrastructure Program Management
- Comprehensive Delivery Solutions for Water
- Wastewater and Wet Weather Systems
- Water Resources

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Welcome Letter from the NAEP President, Brock A. Hoegh, CEP

Welcome everyone. We are excited that you have joined us for our 41st Annual Conference, *Charting the Next 40 Years of Environmental Stewardship*. Chicago, known as the Windy City, located along the shores of Lake Michigan, is an outstanding city to visit. This year, the conference is being held at the famous and historic Palmer House Hilton. Opened in September 26, 1871, it burned down just 13 days later in Chicago's Great Fire. The hotel was rebuilt grander than ever, and you'll experience its amazing history throughout your stay. Located in the Chicago Loop, it is an amazing venue and location for the conference, within walking distance to numerous restaurants and attractions. The conference will have something for all environmental professionals, including you. This week will be busy, which calls for some advance planning on your part. Take some time to plan your week in Chicago, including both educational events and free time to visit with other environmental professionals. Here are some suggestions on what to include in your time during the Conference this week.

Monday Workshops and Training

NAEP provides you with the best in professional educational opportunities. On Monday, our annual NEPA Workshop for NEPA practitioners kickoffs the week, this year providing intermediate/advanced training on NEPA's legal and regulatory framework, whether NEPA applies, integration with other environmental laws, mitigation, and other key topics. NAEP will also be providing a half-day workshop by the National Park Service: Natural Sounds and Night Skies, training participants conducting impact assessments from anthropogenic light and noise on natural and cultural resources within the national parks. The third workshop will be NAEP's continued focus on Career Development. This year's workshop covers insight on interdisciplinary team management, effective communication, and effective community engagement. NAEP provides you with the best in professional educational opportunities.

President's Dinner

The President's Dinner is always a great evening for our NAEP members and guests. This year, I want to invite each of you to the President's Dinner on Tuesday evening at the Chicago Cultural Center. Located just a few blocks away from the Palmer House Hilton, located in the Preston-Bradley Hall, you will be able to enjoy great food, the Tiffany Dome ceiling, browse the cultural exhibits, live music, and enjoy talking to new and past NAEP friends.

Professional Education Tracks

On Tuesday, Wednesday, and Thursday, the halls of the Palmer House Hilton will be filled with participants attending the educational sessions of their choice. We have 46 sessions this year, including the premier speakers in the professions which proves every year to be an essential update on new developments in the field. However, if you are here primarily for NEPA, this year will be a particularly unique and exciting year as we will be featuring a special set of sessions providing a continuation of the 2014 Cohen NEPA Summit. These sessions will focus on disseminating recommendations generated by the Summit and brainstorming ideas on how to bring them into fruition. In addition, we have a full array of environmental tracks, covering topics

**Welcome Letter from the NAEP President,
Brock A. Hoegh, CEP
(Cont'd)**

including Climate Change, cultural resources, ecosystems, energy, Great Lakes, public involvement, remediation, sustainability, transportation, water resources and visual resources.

Also this year, there are two walking tours, one focusing on Chicago's architecture, learning about the evolution of the Chicago skyscraper and great 19th and early 20th century architectural landmarks of Michigan Avenue and State Street. The second walking tour is a sustainability tour. Chicago as a leader of innovative environmental initiatives and sustainability is a key focus of Chicago's policies. Highlights of the tour will include Millennium Park, the Chicago River Walk, and the city's expansive underground pedway system will be discussed..

Keynote Speaker and Special All-Conference Sessions

One of the highlights of our Conference is our keynote speaker Cameron Davis, on Tuesday he will cover the Great Lakes Restoration Initiative by the U.S. EPA Region 5. Deserving your attention are the National Environmental Excellence Award winners. These awards recognize noteworthy accomplishments in the environmental fields. They are announced during our luncheon on Tuesday. When you see an award winner, congratulate them personally and take the opportunity to learn more about their accomplishments. On Wednesday night for dinner, join us for Dine-Around-Chicago. Sign up at registration and try a new restaurant while you are in town.

Thank the Exhibitors and Sponsors

Please also visit our exhibitors during the conference and find out what unique services or information they have to offer. When you see a representative of one of our sponsors, offer a thank you. Without them we would not be able to gather yearly to renew our friendships and interest in the environmental professions.

Thank the Volunteers

I wish to thank Ron Deverman, Rona Spelleccacy, Jennifer Lundberg, the track chairs, and the entire 2016 Conference Committee for their tireless efforts to make this conference successful. Because of the help of the Illinois Association of Environmental Professionals, we have a valuable professional educational event this year. Please take some time to express your gratitude to the planners who work hard for a year and a half before we arrive. It is through the efforts of the conference planners and volunteers that each and every annual conference is the highlight of the year for NAEP.

Plan to introduce yourself to someone new and to reintroduce yourself to some of your old acquaintances. We need each of you to continue to make the connections that make us a strong professional association. Make an effort to seek me out and share your impressions of the conference. We need your feedback to continue to make this the premier conference for the premier environmental association.

**Welcome Letter from the NAEP President,
Brock A. Hoegh, CEP**
(Cont'd)

Post-Conference

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

Lastly, taking a quote from our Conference Co-chair and Past President Ron Deverman, “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.” Can’t say it any better than that!

Enjoy the conference, and thanks for attending.



Brock A. Hoegh, CEP
NAEP President

Welcome from the Conference Co-Chairs

On behalf of our 2016 Conference Committee, welcome to the NAEP's 41st Annual Conference! As many of you know, the NAEP Annual Conference offers you many opportunities to learn about our profession, develop life-long professional relationships, and have some fun along the way. Over the next four days, the nation's leading environmental professionals will discuss new methods of environmental practice, dialogue on the environmental challenges and successes of the 21st century, and look ahead to the next 40 years of environmental stewardship.

The Conference Committee has endeavored over the past year to create what we think is an exceptional technical program at an outstanding value. Our goal was to create a conference program that speaks to the state of our environmental practices and includes varied topics of interest to environmental professionals from across the United States and beyond. We trust you will take full advantage of the technical sessions presented by your colleagues who have generously volunteered their time and expertise.

This is also your opportunity to reconnect with your friends and colleagues and interact with one another. We have included a variety of networking opportunities in the conference, including breaks between sessions, networking lunches, and evening events, such as the restaurant dine-around and the President's Dinner at the Chicago Cultural Center.

Take time to review the Schedule-at-a-Glance. You'll see this year's conference program offers new and enhanced professional tracks, panel discussions, excellent keynote speakers, walking tours, and other activities. We also believe the NAEP Annual Conference provides the best opportunity for you to engage with your fellow environmental professionals.

We want to personally thank all of the track chairs, speakers, moderators, poster presenters, and other volunteers who have participated in the planning of this conference. We don't have adequate words to express our appreciation to the 2016 Conference Committee for all their volunteered hours, great ideas, and endless patience with hundreds of emails and a very temperamental SharePoint site. The Committee's energy and positive attitudes amazed us throughout the year. We are confident that the Conference Committee's hard work is evident in the excellent technical program and social events you are about to experience.

We would also like to take this opportunity to thank our exhibitors and sponsors, without whom this conference would not be possible. We encourage you to visit the exhibitor space and thank our exhibitors and sponsors for their generous contributions to the success of the conference and NAEP.

Welcome from the Conference Co-Chairs (Cont'd)

Finally, thank you for participating in the 2016 NAEP Annual Conference. We are confident that you will enjoy the week, take away practical knowledge and ideas with which to further your career, and experience a renewed sense of purpose and passion for the environmental professions. Enjoy the conference, enjoy your friends, and enjoy Chicago!

Sincerely,

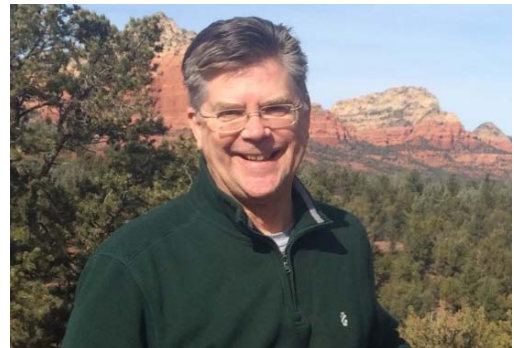
Rona Spellecacy, AICP

Technical Co-Chair



Ron Deverman, AVP

Local Co-Chair





OFFICE OF THE MAYOR
CITY OF CHICAGO

RAHM EMANUEL
MAYOR

April 11, 2016

Dear Friends:

As Mayor and on behalf of the City of Chicago, it is my pleasure to welcome all of those gathered for the National Association of Environmental Professionals 41st Annual Conference

Established in the 1970's, the National Association of Environmental Professionals (NAEP) is a true leader in the development of ethics, standards, and proficiency in the environmental professions. For decades, members of NAEP have worked tirelessly to serve as a resource of unbiased information on environmental practices. Thanks to the enduring efforts of NAEP, countless environmental professionals are able to engage in thoughtful decision making that considers the social, economic, and environmental impact of their work.

This year's conference provides a special opportunity for our nation's top environmental professionals to join together in the advancement of environmental stewardship. Attendees are sure to have an informative experience as they are afforded the opportunity to participate in a variety of workshops and training sessions.

I hope that those visiting our great city take time to experience some of the special places in Chicago. Our historic neighborhoods, iconic skyline, and incredible lakefront invite you to explore all Chicago has to offer. I hope you have a chance to sample our distinguished restaurants, tour our great universities, and visit our world-class museums during your stay.

I hope you have a truly enjoyable conference and offer my best wishes for much continued success in the future.

Sincerely,

A handwritten signature in blue ink that reads "Rahm Emanuel".

Mayor

“Thank you to Our Sponsors”

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Welcome from the Conference Co-Chairs
(Cont'd)

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General Information

The NAEP registration desk is located on the 6th floor of the Palmer House Hilton in Chicago, Illinois

Registration Hours

Monday, April 11th
7:00 am – 5:00 pm

Tuesday, April 12th
7:00 am – 5:00 pm

Wednesday, April 13th
7:00 am – 5:00 pm

Thursday, April 14th
7:00 am – 3:00 pm

Exhibits

Exhibits are located in the **Monroe Room** on the 6th floor of the Palmer House

Exhibitor Set-Up
Monday, April 11th
8:00 am – 4:30 pm

Exhibitor Tear Down
Thursday, April 14th
3:15 pm – 6 pm

Exhibit Hours

Monday, April 11th
5:00 pm – 7:00 pm

Tuesday, April 12th
7:00 am – 5:00 pm

Wednesday, April 13th
7:00 am – 5:30 pm

Thursday, April 14th
7:00 am – 3:15 pm

Credits Available

AICP certification maintenance credits are available for most of the conference (apply online through your APA account). CEUs have been approved for the NEPA Intermediate/Advance Workshop, and Natural Sounds and Night Skies Workshop. Sign-up at registration for CEUs.

Speaker Registration

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

Electronic Devices

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

Internet Access

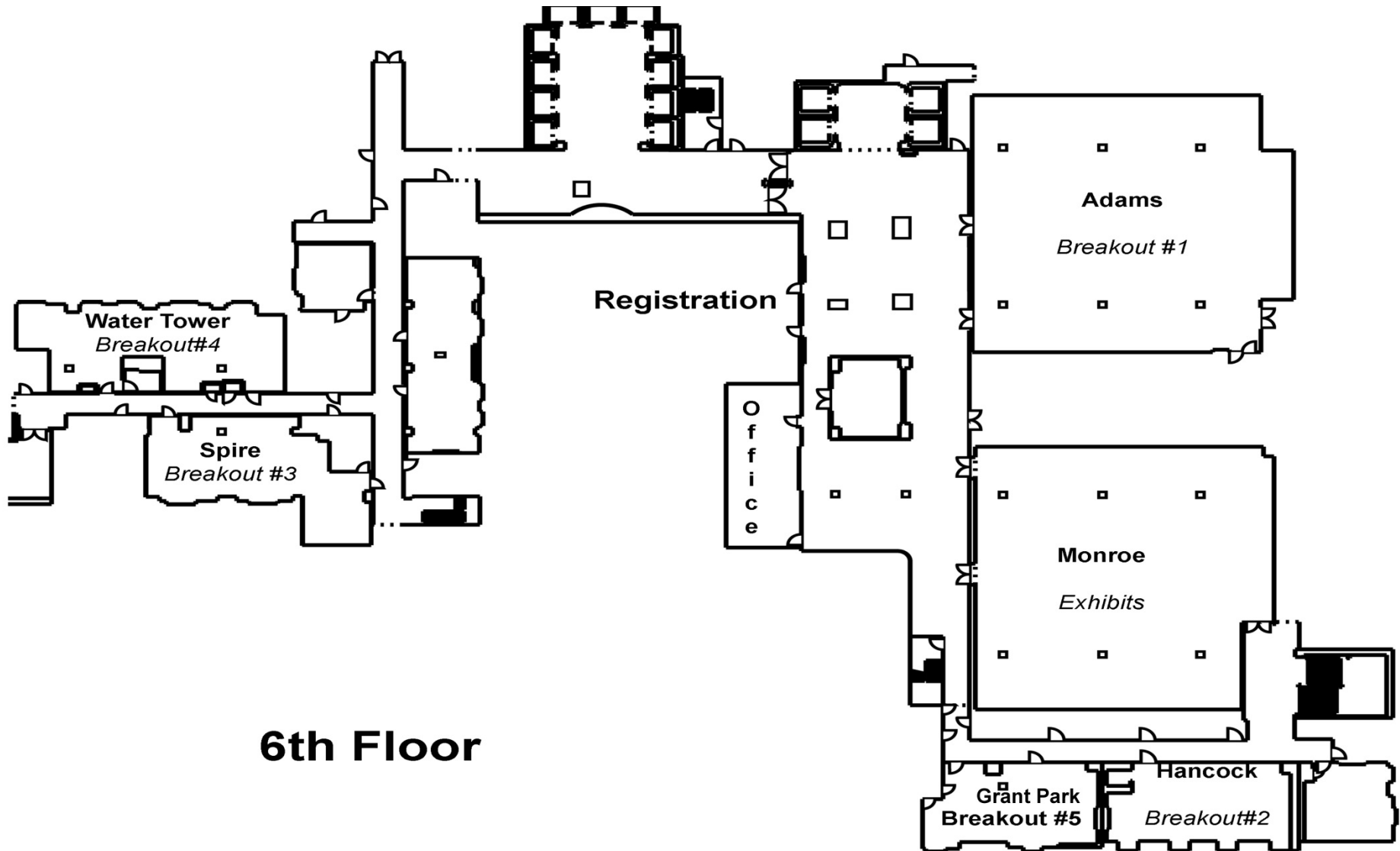
We are providing complimentary wireless access in the meeting space area.

Select: **PH Meeting**
Password: **NAEP**

Quiet Space

If you need a quiet area to do some work, the Grant Park Room is available. This room is located just down the hall from registration.

"FLOOR PLAN"



6th Floor



Conference Floor Plan

(opening welcome/keynote session, Tuesday and Wednesday lunches located in the Empire Ballroom- Lobby Level)

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NWETC, Northwest Environmental Training Center
SWA Solid Waste Authority

2016 NAEP Conference - Keynote Speaker

Tuesday, April 12th

Cameron Davis **USEPA Region 5 Senior Advisor** **Great Lakes Initiative**

Mr. Davis is the Senior Advisor to the U.S. Environmental Protection Agency Region 5 Administrator. In that capacity he provides counsel to the EPA Regional Administrator on the Great Lakes Restoration Initiative. His job includes coordinating Great Lakes policy and funding initiatives valued at more than \$1 billion since FY2010 with more than a dozen federal agencies and with state, municipal, tribal, business and civic stakeholders. He also served as a lead negotiator on the U.S. negotiating team for the 2012 U.S.-Canada Great Lakes Water Quality Agreement.



For more than two decades, Mr. Davis has worked to develop and implement water quality and quantity policy. Starting as a volunteer, he served as a litigating attorney and law teacher at the University-of-Michigan Law School before serving for 11 years as President and CEO of the Alliance for the Great Lakes. Under his leadership, the organization won the American Bar Association's Distinguished Award in Environmental Law & Policy, the first time for a public interest organization in the honor's history. He earned his law degree, including certification in environmental and energy law, from the Chicago-Kent College of Law and received a B.A. from Boston University in International Relations. He is the author of *Confluence* (BookSurge 2009). Mr. Davis lives across the street from Lake Michigan with his wife, Katelyn, and two children.

Opening Welcome

Tuesday, April 12th

Felicia S. Davis **Executive Director, Public Building Commission**

Felicia Davis serves as the Executive Director of the Public Building Commission (PBC). Appointed by Mayor Rahm Emanuel in May 2015, Ms. Davis' appointment was approved by the PBC's Board of Commissioners on June 9, 2015.

In her role as Executive Director of the PBC, Davis oversees construction and renovation projects for the City of Chicago and its sister agencies, including the Chicago Park District, Chicago Public Library, Chicago Public Schools and City Colleges of Chicago, in addition to the Water Reclamation District of Greater Chicago.



As a public developer, the PBC plans, designs and builds schools, parks, libraries and municipal buildings that help to make the communities of Chicago and Cook County better and safer places to live.

Ms. Davis joined Mayor Emanuel's administration in 2011 as First Deputy Chief of Staff and lead public safety policy advisor, leading the City's Public Safety portfolio and the development of the public safety agenda and policies that reduce violence in Chicago neighborhoods. In this role, Ms. Davis was instrumental in the preparation and implementation of the historic NATO Summit in 2012, steering weekly working groups for City departments and agencies crucial to the overall operation and execution of the event. After the successful summit, Ms. Davis was named Executive Director of the newly created Office of Public Engagement, where she collaborated with community and civic organizations to engage citizens for the betterment of their communities and the City at large.

Prior to joining Mayor Emanuel's Administration, Ms. Davis was the Vice President of Administration and Operations at Kendall College. Ms. Davis previously served the Chicago Police Department, with distinction, for 10 years. Ms. Davis is a Chicago native and life-long resident of the City's South Side, where she resides with her family.

Featured Speaker

Thursday, April 14th

Ann Kalayil **GSA's Region 5 Administrator**

Ann P. Kalayil was named Regional Administrator of the U.S. General Services Administration's Great Lakes Region in January 2011. As the agency's regional chief executive, she heads operations that provide Federal agencies and the U.S. Courts in six states with support in vital areas such as real estate, technology, acquisitions, and fleet. Headquartered in Chicago, the Region has a workforce of 725 employees and an annual operating budget of approximately \$450 million, a building inventory of 35.8 million square feet, and \$3.4 billion in business volume. Ann's appointment is historic as she is the first woman and first Asian-American to serve in this role for the region.



Ann provides the region with vision and direction through the development and implementation of a goal-driven and measurable regional strategic plan that supports the agency's key priorities. She championed regional efforts to meet a Presidential Executive Order to reduce the federal government's physical and carbon footprint, including shrinking the region's office footprint by 24 percent, which resulted in savings of \$1 million in annual rent. She also spearheaded the creation of the region's first sustainability plan, focusing on additional ways the region can reduce energy intensity and adopt green technologies and vehicles. Ann has led several technology initiatives such as digitizing GSA's public artwork collection for the public's use and developing a digital strategy for the workplace of the future within GSA. She has been instrumental in driving talent management through the creation of several employee engagement initiatives that reach all levels of employees.

Prior to this appointment, Ann worked for more than 18 years at the University of Chicago in Information Technology Services, where she worked in Emerging Technologies and Communications but previously was Director of Client Services and Support. Ann has taught at DePaul University, Loyola University Chicago, and the University of Illinois at Chicago.

Ann received a bachelor's degree in Political Science from the University of Illinois at Chicago, a bachelor's degree in Computer Science from Northeastern Illinois University, a master's degree in Asian Studies from the University of Illinois at Urbana-Champaign, and a doctorate from the University of Wisconsin-Madison.

President's Dinner The Chicago Cultural Center – Preston-Bradley Hall

Tuesday, April 12th

The Chicago Cultural Center – Preston-Bradley Hall

The President's Dinner is a family friendly event and will be held at the Chicago Cultural Center, in the Preston-Bradley Hall, located within three blocks of the Palmer House Hilton. Dinner by Calihan Catering will include lavish buffet stations, to be enjoyed at your leisure. Enjoy the ambiance of the Tiffany Dome ceiling, and live music by the Matt Coglianese Jazz Ensemble. Browse the Chicago Cultural Center exhibits, and have a fun and relaxing evening. After the event stroll through Millennium Park by crossing the street from the Cultural Center or stroll along Michigan Avenue, known as the "Magnificent Mile".

A ticket to the President's Dinner is included with each full conference registration. Tickets will be available for purchase for one day registrants and guests. During this special event, the Cultural Center is open to NAEP conference registrants and guests only.





AICP Certification Maintenance

AICP certification maintenance credits are available for most of the conference (apply online through your APA account).

NAEP 2016 Conference Workshops and Training

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Intermediate/Advanced NEPA Workshop

National Environmental Policy Act (NEPA) practice is constantly evolving through new federal agency and Council on Environmental Quality (CEQ) guidance and federal court decisions. This workshop is primarily designed for Intermediate to Advanced NEPA practitioners who already have a basic understanding of NEPA. The workshop will be led by leading thought leaders in the areas of NEPA cumulative impact assessment, purpose and need and alternatives analysis, risk assessment, and climate change. The workshop will focus on some of the most frequently-evolving and complex issues facing NEPA practitioners today, and will cover recent policy changes and relevant court decisions. Topics covered include:

- Crafting a defensible Purpose and Need statement
- Alternatives analysis
- Cumulative impacts analysis
- Mitigation and monitoring
- Climate Change analysis
- Integrating risk assessment into NEPA analyses

Instructors:

Brent Miyazaki, AECOM

Mr. Miyazaki has over 30 years of professional experience working on major energy infrastructure projects, including over 20 years meeting National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) requirements on a broad range of projects. This includes extensive direct experience interfacing with regulatory agencies during permitting and environmental impact assessment for multiple electrical and energy infrastructure projects. Through these projects, he interacted with multiple resource and regulatory agencies, including BLM, USACE, CPUC, CDFW, RWQCB and

Monday April 11, 2016

others. He has drafted Alternative discussions for multiple complex projects. These analyses involved a phased review, progressing from system alternatives to routing options, and finally site alternatives. He also applied risk-based assessment approaches to evaluating potential environmental impacts on various energy infrastructure projects. These include electrical facilities, oil and gas wells, and natural gas pipelines.

Matt Petersen, AECOM

Mr. Petersen has worked as resource specialist and managed or provided NEPA oversight for over 30 large-scale EISs, including projects from Alaska to Vermont. This includes work with most major federal agencies and encompasses mining, oil and gas, pipelines, transmission lines, wind farms, airports, and power plants. He has taught custom NEPA seminars for the Forest Service, BLM, and other federal agencies and industry clients. Matt specializes in managing, providing NEPA oversight to and alternatives facilitation for large-scale, controversial projects. He has managed or led alternatives development efforts for multiple mining, airport, and agency resource management plan EISs. His recent experience (last three years) includes managing the TransWest Express Transmission Line EIS and the Bald Mountain Mine Expansion EIS, and providing alternatives facilitation for the Converse County Oil and Gas EIS, the BLM San Pedro National Riparian Conservation Area Resource Management Plan (RMP) EIS, the BLM Bering Sea Western Interior RMP EIS, and the BLM Central Yukon RMP EIS. Matt has developed several open enrollment NEPA courses which he routinely teaches to industry professionals, lawyers, and agency staffs. He is a regular instructor on NEPA impact analysis and third-party consulting for the BLM National Training Center (NTC).

Dale Sands, AECOM

Mr. Sands is Senior Vice President, Global Director of Climate Adaptation and Metro Services in the Environment Business Line for AECOM, a Los Angeles-based \$18 billion global provider of professional technical and management support services serving clients in 150 countries. Based in Chicago, Mr. Sands has over 35 years of environmental experience in 65 countries. A frequently invited speaker to major conferences, Mr. Sands' numerous publications and presentations, include the 5th International Disaster and Risk Conference (Davos, Switzerland), Plenary Session Chair, 5th Africa Platform for Disaster Reduction (Nigeria), and Keynote speaker at the Glass Performance Days Conference (Finland). Mr. Sands is a contributing author to AECOM's new guide for the private sector: *Becoming Climate Resilient—An Executive Business case for Climate Resilience*. He just completed a two year term as Vice Chair, UN Private Sector Advisory Group for Disaster Risk Reduction (UNISDR), a membership of 100 companies from over 40 countries. Mr. Sands was a Board member of UNISDR PSAG since 2011. He was actively involved in private sector input to the Sendai Framework for Disaster Risk Reduction, which was approved by 187 member states at the Sendai Conference in March, 2015. Sands leads AECOM's partnership

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with IBM in developing the Resilient Cities scorecard which assists cities in assessing preparedness and resilience to natural disasters such as severe storms, sea level rise, floods, droughts, wildfires, earthquakes. The Disaster Resilience Scorecard received the Notre Dame Global Adaptation Index Prize for 2015. Mr. Sands is also leading the AECOM/IBM team to develop a resilience scorecard focused on small- to mid-size businesses which will be released in 2016 after pilot testing in New Orleans.

Michael D. Smith, ENERCON

Dr. Smith is a nationally-recognized leader in National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) compliance with over 20 years' of experience in project and program management, technical analysis, policy development, and training/education for a wide range of public and private sector clients. He is currently a Principal with ENERCON in the San Francisco Bay Area, an architectural engineering, environmental, technical and management services firm providing a broad range of professional services to private, public, and government sector clients throughout the United States and internationally. He has managed and provided compliance review for some of the nation's largest, most complex, and highly controversial projects, including major energy and transportation infrastructure projects, regulation of genetically engineered plants, commercial space transportation operations, and approval of new fuel economy standards for all vehicles operated in the U.S. He frequently provides training and strategic advice for NEPA, CEQA, and related environmental compliance requirements for public and private sector clients as a faculty member at the University of California. Davis Extension Land Use and Natural Resources Program, the UCLA Extension Sustainability Program, the NEPA Certificate Program at the Quinney College of Natural Resources at Utah State University, and as a Senior Consultant at The Shipley Group. He is a past recipient of a Science & Technology Policy Fellowship with the American Association for the Advancement of Science (AAAS) at EPA's Office of Water and Office of Federal Activities in Washington, DC. From 1998 to 2007, he was an Associate Professor of Environmental and Natural Resources Sciences at Humboldt State University in northern California.

National Park Service: Natural Sounds and Night Skies (Morning Session)

In recent years, increasing levels of noise and anthropogenic light have emerged as important new areas of natural resources management and environmental conservation. For more than a decade the National Park Service, Natural Sounds and Night Skies Division (NSNSD) has been developing concepts, principles, methodologies and protocols for assessing the condition of acoustic and photic environments and analyzing potential impacts from noise and light to park visitors and the natural and cultural resources we are charged with protecting. This half-day training will present methodologies for the assessment of impacts from anthropogenic light and noise on natural and cultural resources and national park visitors.

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Noise analyses are common in many NEPA analyses. For decades, environmental impact statements and environmental assessments have addressed potential impacts from noise primarily in residential and urban areas. Over time accepted methodologies have emerged to measure and predict noise from highways, airport expansions, construction projects, and similar actions. These analyses are focused on increases in decibel levels and impacts are based on thresholds related to social and health effects of noise, such as the potential for hearing loss, or the percentage of the community that would be highly annoyed. These approaches and methodologies focus almost exclusively on potential human effects, while the impacts to wildlife, open space, wilderness values, and other natural and cultural resources are largely ignored.

In contrast to this human-centered approach, the National Park Service is charged with protecting the acoustic environments of parks from the adverse effects of noise. NPS Management Policies require parks to protect and preserve natural soundscapes including sounds that are part of the biological or other physical resource components of the park. Examples of such natural sounds include:

- sounds produced by birds, frogs, or katydids to define territories or aid in attracting mates;
- sounds produced by bats or porpoises to locate prey or navigate;
- sounds received by mice or deer to detect and avoid predators or other danger; or
- sounds produced by physical processes, such as wind in the trees, claps of thunder, or falling water.

This policy requires a more comprehensive analysis that examines a broader suite of potential impacts than more common human-based analyses.

For more than a decade the NSNSD has been developing principles, concepts, and methodologies for assessing impacts from noise to national parks, wilderness, and other protected areas. NSNSD has developed an impact analysis framework that addresses potential effects from noise to park visitors as well as impacts to wildlife, wilderness values, cultural landscapes, and other park resources and values. The first part of this training will present the NPS methodology that uses various "functional effects" of noise to assess potential impacts to the natural soundscapes of parks.

More recently, there has been a growing awareness of the importance of star-filled night skies and natural light and dark cycles in fields of human health and environmental protection. Simultaneously, an increase in articles in the popular press has generated increased public appreciation of night skies and efforts to protect lightscapes in protected areas. As a result federal agencies are increasingly requiring an analysis of impacts from lighting in NEPA documents. Humans and wildlife have evolved under a regime of natural light and dark cycles and have developed a number of physiological traits and behaviors suited for these conditions. Satellite data has confirmed that the amount of light generated by human activity is increasing at an alarming rate and encroaching into historically dark areas. Research in medicine, public health, wildlife

studies and other fields has identified a number of ways that anthropogenic light can affect humans, wildlife, and cultural landscapes, wilderness, and other environmental conditions. NSNSD has developed methodologies for assessing the condition of the night time photic environment and analyzing impacts to park resources from anthropogenic light. The second part of this training will present the NPS methodology for assessing potential impacts to park visitors, resources and values from light.

Instructor:

Frank Turina, National Park Service

Frank is the program manager for Policy, Planning, and Compliance for the NPS Natural Sounds and Night Skies Division. In this position, he specializes in incorporating science and research on the effects of noise and light on humans and wildlife into policy and guidance for protecting NPS resources and values. Working closely with acoustic specialists, biologists, social scientists, and other professionals, he was instrumental in developing the conceptual approach and methods used by NPS to manage and protect the acoustic and photic environment in parks. Dr. Turina played a key role in the development of the NPS Air Tour Management Program and led the development of the first NPS Soundscape Management Plan, for Zion National Park. Dr. Turina is also responsible for working with lighting specialists and scientists to incorporate sustainable lighting practices into park planning processes and developing and implementing protocols for determining impacts from light and noise on park resources. Prior to joining the NPS, Dr. Turina was an environmental planner at CH2M Hill, writing and managing the development of environmental analyses for highway, transit, and other public works projects. He earned a BS in park management (1985) from Pennsylvania State University, a master's degree in environmental policy and management (1993) from the University of Denver, and a PhD in public affairs/environmental policy (2009) from the University of Colorado.

Career Development (Afternoon Session)**Interdisciplinary Team Management**

With few exceptions, environmental reviews of land management decisions and major proposed state and federal actions require more than one area of expertise to analyze and document. The person selected to be the team leader will be responsible for creating a management plan to address the project and assembling an interdisciplinary team with a shared vision. The team must be able to process and analyze the information and provide an outcome that meets the goals of the project. Achieving success requires that the team leader create synergy among the team members and have a well-designed plan for success. The leader must foster a work environment

where collaboration and deliberation can lead to an outcome that results in sound resource management decisions.

While scientists of a similar discipline and similar lexicon can effectively communicate with one another, this does not necessarily carry over to the required dynamic interactions of an interdisciplinary team. Team leaders need to know how to manage the team members, create an environment where there is effective communication between the disciplines and keep the team working as a unit. Adding to this challenge are the predispositions and values of team members, external influences, time restraints and budget limitations. This half-day workshop will provide team leaders and members with an overview of how to create a management plan that attains the project goals, forms a collaborative, harmonious team and maintains productive working relationships among team members throughout the project's duration.

Effective Community Engagement

In case you have not noticed, the public is watching us and they are no longer passive about decisions related to the environment. Given this reality, it is important for environmental professionals to learn how to engage the public and make sure they are active participants in the decision-making process. Social media has created an easily accessible and efficient network for persons interested in a proposed action to monitor the decision-making process. With citizen interest and an effective means of communication, unilateral actions by regulators seldom go unnoticed. Rather than avoiding public input as some scientists might prefer, engaging the public in the issues and seeking their input and support significantly decreases the chances of a decision challenge and then seeking legal means to delay/stop an action from proceeding. This session will cover the principles of successful community engagement and examine how the public becomes well-informed and effectively involved in the decision-making process. This session also presents case study/lessons learned examples of successful community engagement by governmental agencies.

Instructors:

Ron Deverman, HNTB

Ron is Associate Vice-President for HNTB, a national engineering, architecture and planning firm, managing environmental impact assessment projects for transportation infrastructure improvements such as transit, passenger and freight rail, roadways, and bridges. Ron has over 30 years' experience in the National Environmental Policy Act (NEPA) with special expertise in community impact assessment, cumulative effects analysis, and federal environmental regulations, such as the Clean Air Act, Clean Water Act, National Historic Preservation Act, and Threatened and Endangered Species Act. Ron is a Past President of NAEP, a published poet, and has spoken nationally on many subjects, including key competencies for environmental professionals, environmental stewardship, and public health impacts and benefits of our transportation choices.

Cheryl Vaccarello, Tetra Tech

Cheryl is a community outreach manager with over 25 years of media relations, risk communication and facilitation experience. She provides support for clients in government and private sectors. She currently manages numerous U.S. EPA community involvement projects throughout the Midwest and Southeast. Project support includes onsite support at sites. Ms. Vaccarello has developed and implemented public outreach and involvement strategies and toolkits at numerous sites for various clients. Her work in this area has included developing demographic and economic community profiles; conducting community interviews; preparing community involvement plans; developing risk communication strategies; designing poster displays; developing fact sheets and other informational materials for distribution to local communities; and conducting door-to-door canvassing to speak with individual community members about planned and ongoing activities at sites near their homes. In addition, Ms. Vaccarello provides facilitation and logistical support at various public meetings, open houses, and informational forums and workshops.

Barbara Stuckey, theExact Word

Barbara is President of theExact Word Training Company. She holds a patent for organizing English into a binary system for writing, thinking, and identifying learning and thinking styles. TheExact Word experience introduces a genuinely new, interdisciplinary communications template. Barbara has engaged in communications learning with over 32 clients, including four major universities, several Fortune 500 companies, and the U.S. Department of Education.

Technical Program Tracks (Tuesday-Thursday, April 12–14)

Track Descriptions

Climate Change

Track Chair: Richard Burke, TRC

Climate Change is on the world's radar as a result of the recent Conference of the Parties Summit in Paris, and it continues to be one of the most important issues faced by environmental professionals today. This year's NAEP Annual Conference devotes several sessions to this vital topic. First, we will provide a summary of the Paris Summit, which will include a review of the latest predictions regarding future emissions and associated impacts. Panel members will discuss how such impacts are being addressed in NEPA documents, and best practices that environmental professionals can use in their work. In a second session, we will highlight innovative steps being taken to reduce greenhouse gas emissions and showcase examples of how such measures can contribute to reducing the United States' contribution to this growing problem.

Cultural Resources

Track Chair: Heather Miller, Historical Research Associates

Cultural Resources are often an afterthought in the world of environmental compliance and yet by law they are equally important. Indeed, neglecting to address cultural resources (whether archaeological or historic) adequately can lead to anything from project delays, at best, to political black eyes, at worst—and everything in between. The sessions in the Cultural Resources track are designed to assist environmental professionals in understanding and negotiating some potential pitfalls of cultural resources compliance. This year, there are many sessions in other tracks, especially Visual Resources that overlap with Cultural Resources.

There are four unique sessions in the Cultural Resources track. The first addresses how various forms of mapping, GIS, and LIDAR technology/imagery can assist archaeologists and historians in completing the research, survey, inventory, and reporting necessary to helping clients meet their NEPA/NHPA requirements. Next, a specific case study—recent modifications to the Chicago “L” Train system—is used to depict a lengthy, complicated transportation-related project in which historic resources played a key role in permitting, design, and construction planning and execution. A third session brings together presentations on how the EPA is managing archaeological resources and historic properties at a large Superfund site in Idaho, how FEMA and the NPS are addressing historic resources in the wake of Hurricane Sandy, and how a more holistic approach to cultural landscapes applied to a study of Chicago's South Side can broaden environmental specialists' view of the neighborhoods within which their projects often take place. Finally, as the recognition of historic landscapes has expanded nationally, federal land management agencies are increasingly initiating landscape inventories and assessments within their holdings to document the qualities and attributes that make these properties significant and worthy of preservation. With this in

mind, the Cultural Resources track closes with an important session that discusses new approaches to cultural landscapes documentation. The session will provide a basic overview of initiatives developed by the Park Service for the completion of Cultural Landscape Inventories (CLIs) and Cultural Landscape Reports (CLRs) within the national park system.

Ecosystems

Track Chair: Liz Pelloso, USEPA Region 5

The successful management of all regulated ecological resources is dependent on partnerships and the commitment of multiple stakeholders, usually requiring both public and private sector involvement. The Ecosystems track will address a wide variety of natural resource management topics, including Great Lakes ecosystem restoration projects funded under the Great Lakes Restoration Initiative (GLRI), the Endangered Species Act (ESA) and examples of the Section 7 ESA consultation process, and case studies on successful urban partnerships and mitigation projects in the greater Chicago area. This year's panel and individual sessions will include updates on projects undertaken by the U.S. Army Corps of Engineers (USACE), including Asian Carp barriers and the Northerly Island (formerly Chicago Meigs Field Airport) Ecosystem restoration; several panels on the Section 7 ESA Consultation Process, including updates to the ESA and strategies for navigating ESA consultation for eagles, migratory birds, and bats; and presentations on successful urban stewardship and mitigation projects and ecological initiatives undertaken in the greater Chicagoland area, and the partnerships those projects required.

Energy

Track Chair: Richard Burke, TRC

This track devotes two sessions to addressing the transformation that is rapidly occurring in the energy generation and consumption systems in the United States. One session will address national and regional environmental issues arising from this transformation and will identify solutions being developed to reduce carbon emissions, while protecting the environment and maintaining reliability in power supply. A second session will focus on actions being taken at the local level. Local governments across the United States desire to prioritize sustainable growth through local jobs and improved quality of life, while at the same time to protect against the potential for climate hazards and resource scarcities. Presenters will show how climate and clean energy planning has the potential to address these needs simultaneously.

Great Lakes

Track Chair: Jonathan Welker, Vector Engineers, Inc.

This track will examine critical issues facing the Great Lakes basin from multiple perspective including applied scientific research, policy and case studies. Presentations will include public involvement, regional collaboration to protect the Great Lakes and St. Lawrence River from aquatic invasive species, anthropogenic refuse pollution, case studies on the Grand Calumet River Area of Concern, and early detection of aquatic

invasive diseases and pathogens. Each of these issues will be considered from the perspective of mitigation and best practices for practitioners working in the Great Lakes Basin.

NEPA

Track Chair: Michael Smith, ENERCON

The purpose of the NEPA Track is to provide practitioners with a comprehensive overview of the most important recent NEPA policy and legal updates, as well as tips and techniques for improving NEPA practice and analyses in a number of critical areas. Federal, state and private-sector practitioners and legal experts will showcase real-world examples from project case studies for a wide range of project types and agency actions. This will be a particularly unique and exciting year for the Track, as we will be featuring a special set of sessions focused on the Cohen NEPA Summit. In December 2014, the Environmental Law Institute, the Nicholas Institute for Environmental Policy Solutions at Duke University, and Perkins Coie LLP sponsored a two-day conference in Washington, DC on NEPA Practice. Entitled the Cohen NEPA Summit, the conference honored the work and lifelong service of William M. Cohen who, before his death in 2010, was one of the nation's leading NEPA practitioners, instructors, and mentors. The dual purposes of the conference were to examine how and whether NEPA has achieved its objectives and to identify possible improvements in implementing NEPA.

Approximately 45 NEPA experts attended the conference. The participants represented a broad spectrum of stakeholder interests, including the federal government, states, private companies, non-profit groups, and academia. An initial report on the Cohen NEPA Summit was released in May 2015. NEPA Track conference sessions featuring the Summit will focus on disseminating the recommendations generated by the Summit and brainstorming ideas on how to bring them into fruition. Each session will include both presentations based on the Cohen NEPA Summit and discussion with the conference attendees. In addition to this special set of sessions, this year's panel and individual paper sessions will address a wide array of NEPA topics including: Annual NEPA Case Law and Policy Update; Programmatic NEPA Documents; Federal/Municipal Partnerships; Cumulative Impact Analysis; NEPA Best Practices; Ecosystem Mitigation and Post-Environmental Analysis Review; NEPA Case Studies; and NEPA Tools & Techniques.

Public Involvement

Track Chair: Renee Kuruc, IAEP

Executive Order 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations", was signed by President Clinton in 1994. Federal agencies were required to develop strategies for fair treatment and meaningful involvement of all people, regardless of race, color, national origin, or income. Municipalities were asked to consider locations in all income levels and base final location on best environmental choice. Public transportation was now expected to be provided and serviced in high minority, low income areas as well as high income areas. As each federal agency worked on creating initiatives, EPA issued their action

document, "Environmental Justice Strategy: Executive Order 12898". EPA's goal was to offer everyone the same degree of protection from environmental and health hazards and equal access to the decision-making process to have a healthy environment in which to live, learn, and work. In this session one of EPA's Region 5 staff will provide an overview of EPA's EJ 2020 action plan and demonstrate the new EJSCREEN tool. Come watch and learn how to maneuver through EPA's geospatial tool to create meaningful environmental justice analyses on federal projects.

Remediation

Track Chair: Bill Johnston, Linebach Funkhouser, Inc.

The Remediation Track will focus on innovative technologies as they relate to environmental remediation and sustainability. We, as technical professionals, need to figure out and focus on more innovative and less invasive ways to assess and remediate subsurface contamination. We also need to share in-situ technologies, both mechanical and chemical, not only domestically but internationally and especially with emerging countries where these worldwide problems exist. Another challenge for technical professionals is to be able to incorporate this mindset into sustainability relative to protecting our environment. We need to utilize emerging technologies not only in remediation, but also into other applications such as the mining industry as well as in waste reduction and management.

The Remediation Track will also detail examples of some of these innovative technologies and how they have been applied domestically as well as being shared with partnering technical professionals in emerging countries. In addition, the sustainability (i.e. protection) of the vitally important labor resource will also be discussed during this track. One of the sessions will focus on how it specifically relates to the waste management employment sector, overall environmental sustainability and climate change.

Sustainability

Track Chair: Renee Kuruc, IAEP

What is your definition of sustainability? Ask ten people and you will get ten answers; the term is used as the cause of many problems and as the reason for a solution. In ecological terms, sustainability is the capacity to endure, plain and simple. Despite the increased popularity of the use of the term "sustainability", the possibility that human societies will achieve environmental sustainability has been, and continues to be, questioned—in light of environmental degradation, climate change, overconsumption, population growth and societies' pursuit of indefinite economic growth in a closed system. One session in this track will focus on transportation planning. Learn how the Illinois Tollway's *Move Illinois* capital program is the cleanest and greenest program in agency history. This track will focus on how state agencies and project teams use FHWA's INVEST tool and ENVISION to lessen transportation impacts. Also included in this track is a success story; Bloomington-Normal, McLean County, Illinois implemented sustainability aspects through the NEPA and design process in an Environmental Assessment.

A new topic in this track will also examine Industrial Ecology, a vision for sustainable societies where industry is organized like a natural ecosystem, where there is no waste, and where energy and materials are continuously cycled in a circular economy. Come hear from several highly respected Chicago-based industrial ecology scholars and explore how industrial ecology can inform professional environmental practice by improving our understanding of society's impacts on the environment and pathways to transition towards sustainability, with a focus on industrial and urban systems. The panelists will first share insights from their areas of expertise.

Transportation

Track Chair: Stacy Woodson, HR Green

The Transportation Track includes one session this year. A group of panelists from the Chicago area including representatives from the Chicago Department of Transportation, Illinois Department of Transportation, and Federal Highway Administration, and will provide an overview of the Chicago Region Environmental and Transportation Efficiently (CREATE) program. During the sessions the panelists will describe how the private-public partnership managers rail infrastructure projects in the area. In addition, the panelists will provide agency and practitioner perspectives on processing CREATE Program projects under NEPA and the application and implementation of the environmental justice policy.

Visual Resources

Track Chair: Bob Sullivan, Argonne National Laboratory

Recent years have seen important and exciting developments in the field of visual resource management, and these advances are the focus of this year's Visual Resources Track. Several federal agencies have or will be issuing updated program guidance, and are initiating interagency collaboration to address visual resource management issues, including impacts to enjoyment of night skies. The National Park Service (NPS) has developed and is implementing a new visual resource inventory system, and in 2016, the 100th anniversary of the agency, NPS will launch its new visual resource management program. These NPS activities are highlighted in a special session. The Track also features panels and individual presentations devoted to advances in visual resource inventory and impact assessment methodologies, and several case studies that highlight results and lessons learned when conducting inventories and impact assessments in the field. A panel session will also discuss a new book addressing the impacts of renewable energy on the American and European landscape.

Water Resources

Track Chair: James Montgomery, DePaul University

Water is one of our most delicate, non-renewable, natural resources that requires an exceptional amount of participation from government entities, engineers, environmentalists, and the public. Providing the appropriate regulations, and developing suitable controls and remedy solutions to treat, clean, and recycle water will be the

solution to the inevitable water shortage in the future. This track will examine how local governments and corporations invested in their water resources can successfully protect and plan for future use through the use of conventional methods and new technology. Presentations will consist of innovative solutions to reducing impact to ground and surface waters.

Hotel Information

The conference hotel is at the Palmer House Hilton located at 17 E Monroe Street.

Transportation

Flights: All major airlines fly into Chicago from anywhere in the US. The two airports are O'Hare International Airport and Midway International Airport.

Taxi fares from Chicago's two Airports to the Palmer House Hilton will range within the cost of \$35 - \$50 one way depending on time of day and traffic conditions. Travel times to downtown will take approximately 35 - 45 minutes.

Shuttles: Depending on time of day and traffic conditions, the shuttle can take 45 minutes to an hour to arrive downtown. There are several shuttle companies available at the airports and prices are similar.

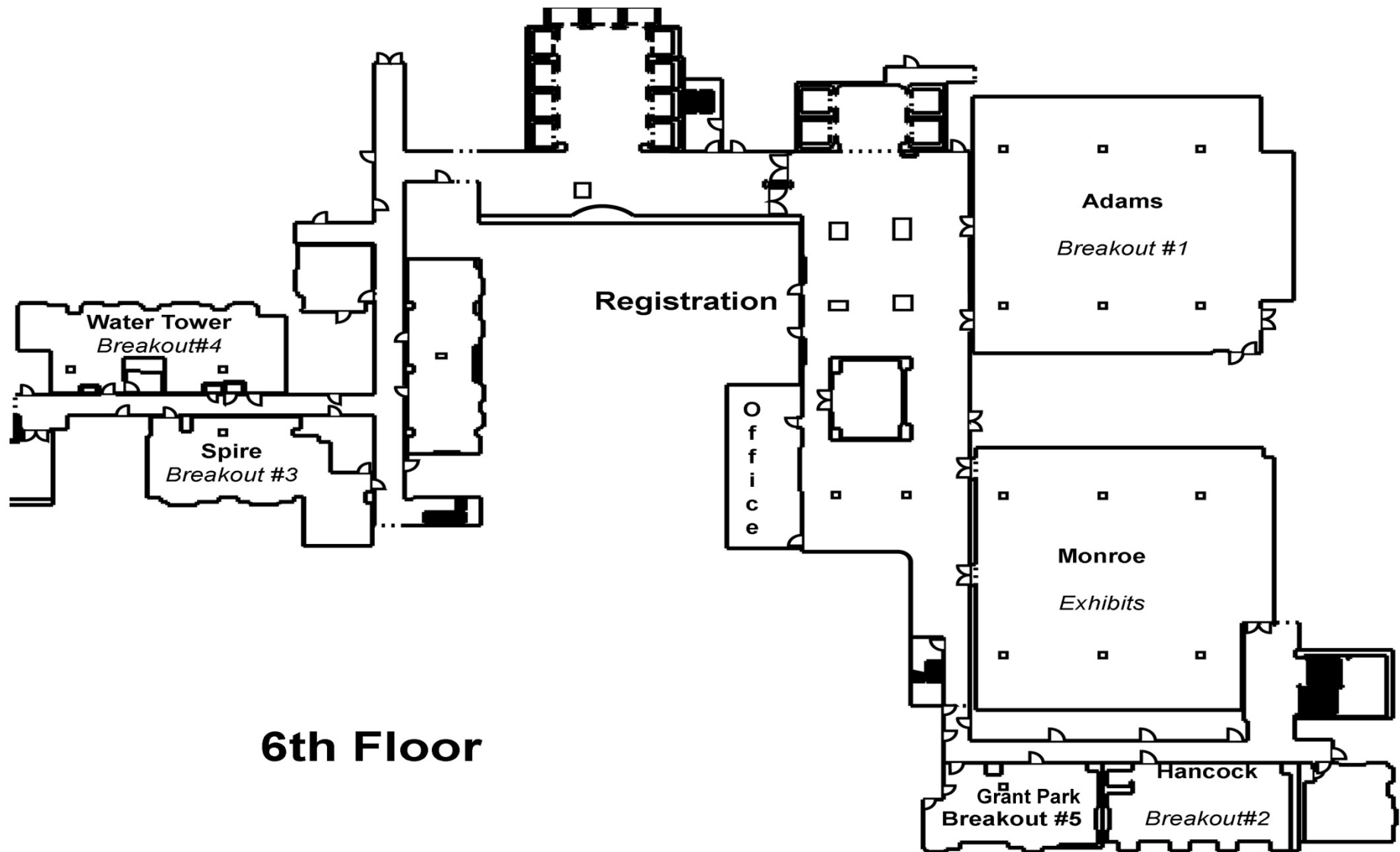
Light rail transit (the "el") is a great way to get downtown.

Chicago Transit Authority (CTA) trains run to/from both airports (O'Hare or Midway):

- CTA - Blue Line (O'Hare) – transit time of approximately 45 minutes
- CTA - Orange Line (Midway) – transit time of approximately 35 minutes

More information, maps, and bus and train trackers can be found at:

www.transitchicago.com



6th Floor



Conference Floor Plan

(opening welcome/keynote session, Tuesday and Wednesday lunches located in the Empire Ballroom- Lobby Level)

Environmental Excellence Awards

The National Association of Environmental Professionals (NAEP) will be recognizing significant achievements in environmental excellence at the 2016 Conference. Through nominations received and reviewed by an NAEP national committee, selected recipients will be recognized for their noteworthy accomplishments in NEPA Excellence, Environmental Management, Public Involvement, Conservation Programs, Environmental Education, Planning, Stewardship, and Best Available Technologies, as well as The President's Award. A video of the award projects will be on display in the exhibit area.

**** President's Award***

Project Name:

Chennai Metro Rail Project

Presented to:

Mr. C. Kannan

Description of Project:

Chennai Metropolis has been growing rapidly and the traffic volumes on the roads have also been increasing enormously. Hence the need for a new rail based rapid transport system has been felt and towards this objective the Government of Tamil Nadu has decided to implement the Chennai Metro Rail Project. This project aims at providing the people of Chennai with a fast, reliable, convenient, efficient, modern and economical mode of public transport, which is properly integrated with other forms of public and private transport including buses, sub-urban trains and MRTS.

The Chennai Metro Rail Project is a prestigious project being built to International Standards in Tamil Nadu, India. The system is approximately 45km long with about 50 % in elevated and 50 % underground sections.

The Chennai Metro Rail Project accord highest priority to the protection of environment while building a world class Metro system for the city of Chennai

During the execution phase of this project, we have planted approximately more than 68,000 saplings having survival rate of 77.7% Apart from this we were engaged in performing transplantation of rare endangered plant species with a 100% survival rate. By doing so there was a substantial increase in the green cover in around the Chennai.

A large number of trees have been planted in between the course of this project which will provide fresh air, shelter during summers, a good landscape and will help in curbing out pollution. These practices also generate employment to the local people which in turn can improve their economic condition.

****Environmental Management Award***

Project Name:

The Rookery at Perico Preserve

Presented To:

Charlie Hunsicker, Director, Parks and Natural Resources, Manatee County Government, Damon Moore, Project Manager, Manatee County Government, Michael Burton, CEP, Stantec, R. Quince Sellers, P.E., Stantec, Ryan Horstman, ICON Consulting, Thomas Pierro, CB&I

Accepting the Award:

Mike Burton and Charlie Hunsicker

Description of Project:

Over the last half century, Tampa Bay's coastline has seen a sharp decline in native habitats due to urbanization. The Rookery at Perico Preserve has transformed fallow farmland into a rich mixture of natural areas including creation and restoration of maritime hammock, coastal scrub dunes, saltmarsh, mangrove, and seagrass meadows with more than 100 plant species to return botanical diversity to this site. The creation of seagrass habitat from uplands as advance mitigation for public infrastructure projects is unique and represents a commitment by Manatee County leadership to long-term infrastructure planning and improvement of fish and wildlife habitats in the region.

Recreational users of the trails on the site have the opportunity to view wildlife, including a constructed bird rookery island in the basin, paddlers from other areas will have access to view habitats from the water, anglers will benefit from the improved fish nursery habitat of the seagrasses and mangroves, and Tampa Bay residents (including fish and wildlife) will have a rare gem of coastal habitat to enjoy for generations.

****NEPA Excellence Award***

Project Name:

Statewide Plant Pest Prevention and Management Program Environmental Impact Report

Presented to:

Michele Dias, Chief Counsel, California Department of Food and Agriculture; Laura Petro, Senior Environmental Scientist (Supervisory), California Department of Food and Agriculture; Michael Stevenson, Principal, Horizon Water and Environment; Michael Blankinship, President, Blankinship & Associates

Accepting the Award:

Tom Engels

Description of Project:

The California Department of Food & Agriculture's ("CDFA's") Statewide Plant Pest Prevention and Management Program ("Statewide Program") is a comprehensive statewide plan for the prevention and management of agricultural plant pests in California. Plant pests represent a major threat to California's economy and environment, and due to their rapid reproduction and spread upon introduction, new detections within the state are often true emergencies. The Statewide Program Environmental Impact Report ("PEIR") evaluates all of the activities included under the Statewide Program, from statewide trapping surveys to promulgation of quarantine regulations to rapid response eradication activities. The comprehensive human health and ecological risk assessments conducted for the PEIR modeled hundreds of possible pest management scenarios that could occur under the Statewide Program and modified scenarios or incorporated mitigation measures to ensure proposed activities are safe. The PEIR provides CEQA coverage for all of CDFA's plant pest prevention and management activities, including those rapid response activities that previously required the use of CEQA exemptions, and incorporates an innovative CEQA tiering strategy and checklist to allow the incorporation of new technologies and pest programs as they may become available or are introduced in the future.

*** *Public Involvement Award***

Project Name:

Red Line/HealthLine Extension Study

Presented to:

Greater Cleveland Regional Transit Authority, AECOM, Brown Flynn, Let's Be Frank Productions, Urban Interactive Studio, Wise Economy Workshop

Accepting the Award:

Valarie J. McCall and Maribeth Feke

Description of Project:

The Greater Cleveland Regional Transit Authority's Red Line/HealthLine Extension Study examined potential transit extension alternatives based on the requirements of the Federal Transit Administration's New Starts program. The project goals, objectives and alternative screening criteria were refined by public input during the project scoping process.

The public involvement program included an innovative mix of outreach approaches matched with the unique demographic conditions in the corridor, applied creative video strategies featuring citizen input, used engaging and customized social media messaging, and provided new interactive website technology. A comprehensive Public Engagement Plan defined issues, concerns, challenges, target audiences, responsibilities and program elements. A monthly reporting tool called the "Public Involvement Interaction Index (PI3)" allowed the team to set and monitor achievement of the project's outreach goals.

Public meetings and video interviews of transit riders provided unique insights into system needs and demonstrated participant diversity. Twitter and Facebook messages created a "buzz" by sharing information and perspectives that directed participants to upcoming community involvement opportunities, the project video series and website updates. The project website featured an innovative and interactive tool that allowed users to explore alternatives by matching user choices with associated outcomes, and compare tradeoffs with different choices and perspectives.

*** *Best Available Technology Award***

Project Name:

Lakeshore Recycling Systems' Heartland Single-stream Facility

Presented to:

Alan T. Handley, Joshua Connell, Rich Golf, Jerry Golf, Meaghan Johnson

Accepting the Award:

Alan T. Handley, Rich Golf

Description of Project:

Lakeshore Recycling Systems (LRS) is proud of its innovative facilities, and with their advanced practices, LRS controls nearly 2 million tons of Chicagoland's outbound commercial and residential waste, or 32% of the area footprint. LRS successfully keeps more than 800,000 tons out of landfills by recycling or diverting materials. To increase the Heartland facilities's potential and coincide with LRS' promise to deliver exceptional service and cutting-edge technology to its customers, this facility has been expanded over 40,000 square feet to include a new Machinex single-stream system. LRS purchased and installed the new \$8M single-stream system with the capability to sort, separate and allocate nearly 20 tons of waste per hour, or 300 tons a day. The system collects well over 110,000 tons of high-grade residential and commercial single-stream recyclables: plastics, glass, metals and paper, to generate a high quantity of recyclables for local and international outlets. Single-stream recycling allows recyclable materials such as paper, glass, cardboard and plastic to be mixed, or co-mingled, in one container without being separated. To fuel a sustainable future in Chicagoland, LRS continues to dramatically increase Chicago's waste diversion rates by aggressively investing in new types of technologies.

★Conservation Programs Award

Project Name:

Broad Branch and Linnean Tributary Stream Restoration and Culvert Daylighting Project

Presented To:

Steve Saari, District Department of Energy and the Environment, Keith Underwood, Underwood & Associates, Inc.

Description of Project:

The restoration of the Linnean Park tributary and the daylighting and restoration of Broad branch are two linked projects in Northwest, Washington DC. The goal of this effort was to restore in-stream habitat and improve the urban hydrology of these two tributaries that flow to Rock Creek. The project incorporated the recreation of a stream channel through the daylighting of a storm drainage system, integration with upstream BMP's to control runoff, commitment to post restoration monitoring, and overcoming the difficulty of working in an ultra-urban setting.

★Education Excellence Award

Project Name:

“Unlock the Secrets in the Soil” Awareness & Education Campaign, USDA-Natural Resources Conservation Service

Presented to:

Soil Health Communications Team

Accepting the Award:

Paige Buck and Ivan Dozier

Description of Project:

Healthy soil is the foundation of life. To meet the projected needs of the world’s burgeoning population in a sustainable way, improving the health and productivity of our soil is essential. Moreover, improving the health of the soil will also lead to continental-scale improvements in water, air, and wildlife—all while enhancing long-term agricultural production. Improving the nation’s soil health is one of the most important conservation endeavors of our time. Encouraging farmers to adopt soil health management systems is the primary goal of the campaign. The estimated five-fold increase in soil health system adoption (10 million acres) during the first two years of the campaign, is clearly remarkable. Thanks to the campaign’s success (and the work of farmers who have implemented soil health management systems on these 10 million acres of cropland) the U.S. is now saving, according to estimates, 9 million tons of top soil; sequestering 1 million pounds of carbon and reducing nitrogen loss to rivers and lakes by 150 million pounds annually. Moreover, the campaign is positioned to help harvest even more benefits in the months and years ahead.

★Environmental Stewardship Award

Project Name:

Los Alamos National Laboratory Trails Management Program

Presented To:

Trails Management Program, Environmental Stewardship Group, Los Alamos National Laboratory, U.S. Department of Energy, National Nuclear Security Administration

Accepting the Award:

Dan Pava

Description of Project:

You are bound to get funny looks when you use the phrases “nuclear weapons” and “public trails” in the same sentence. That is, unless you are talking about the Trails Management Program at Los Alamos National Laboratory (LANL), where both have in common the idea of stewardship. In the case of the former, it is “stockpile stewardship”, a major National Nuclear Security Administration (NNSA) responsibility, and the primary mission of the Laboratory. In the latter case, it is the stewardship of the unique landscape and natural resources of the Pajarito Plateau. Since 2003, the LANL Trails Management Program has strived to balance public recreational preferences with Laboratory operational requirements. The LANL Trails Working Group has met regularly in this regard and consists of representatives from NNSA, Bandelier National Monument, the United States Forest Service, Los Alamos County, local residents and stakeholders, San Ildefonso Pueblo, and subject matter experts. The LANL Trails Management Program continues to provide a sound pathway through policy guidance, implementing trail closures and maintenance, coordinating public education, and assuring regulatory compliance and protection.

★Planning Integration Award

Project Name:

National Greater Sage-Grouse Conservation Strategy and Land Use Plans

Presented to:

Bureau of Land Management, USDA Forest Service, EMPSi – Environmental Management and Planning Solutions, Inc.

Accepting the Award:

Stephanie Carmen, BLM, Glen Stein, Forest Service

Description of Project:

In an unprecedented collaborative planning effort, the Bureau of Land Management (BLM) and the US Forest Service prepared land use plans that will reduce threats to the greater sage-grouse, conserve key sagebrush habitat, and promote sustainable economic development in the West. The plans focus on conserving Priority Habitat areas that have been identified as having the highest value to maintaining the species. This was a critical component that helped the US Fish and Wildlife Service conclude that the rangeland bird no longer warrants protection under the Endangered Species Act.

Greater sage-grouse habitat covers 165 million acres across 11 states in the West, a loss of 56 percent of the species’ historic range. At one time, the greater sage-grouse population likely numbered in the millions, but it is estimated to have dwindled to 200,000 to 500,000 individuals range-wide. In addition to greater sage-grouse, more than 350 other wildlife species depend on healthy sagebrush-steppe landscapes.

As part of their proactive partnership to conserve this uniquely American habitat, the BLM and Forest Service prepared 15 environmental impact statements and revised or amended over 80 land use plans in 10 states.

SCHEDULE AT-A-GLANCE

MONDAY, APRIL 11TH					
8:00 am - 5:00 pm	Workshop #1 Night Skies (Morning) (8am – noon) Hancock	Workshop #2 NEPA Intermediate Advanced Topics (All-Day) Adams	Workshop #3 Career Development (Afternoon) (1pm – 5pm) Hancock		
5:00 pm - 7:00 pm	Networking Reception Monroe (6th Floor)				
TUESDAY, APRIL 12TH					
8:00 am - 9:30 am	City Welcome, Cameron Davis, USEPA Region 5, Keynote, Cohen Report Empire Ballroom (Lobby Level)				
9:30 am - 9:45 am	Break Monroe (6th Floor)				
9:45 am - 11:15 am	Session #1 Visual Resources Federal Perspectives ABS 67, 81, 112 Watertower	Session #2 NEPA Programmatic NEPA ABS 52 Adams	Session #3 Cultural Resources Cultural Resources GIS Techniques ABS 73, 77, 78, 136 Hancock	Session #4 Transportation CREATE Program ABS 134 Spire	Session #5 Water Resources Surface Water Remediation ABS 66, 109, 123, 151 Grant Park
11:45 am - 1:15 pm	Networking Lunch and Environmental Excellence Awards Empire Ballroom (Lobby Level)				
1:45 pm - 3:15 pm	Session #6 Visual Resources National Park Service VR Program ABS 54, 79, 148 Watertower	Session #7 NEPA NEPA Case Studies ABS 21, 51, 92 Adams	Session #8 Ecosystems USACE Great Lakes Initiatives ABS 91 Hancock	Session #9 Sustainability Public Land Planning ABS 41, 80, 99 Spire	
3:15 pm - 3:30 pm	Break Monroe (6th Floor)				
3:30 pm - 5:00 pm	Session #10 Visual Resources Visual Impact Assessment ABS 42, 69, 88 Watertower	Session #11 NEPA Cumulative Impact Analysis ABS 145 Adams	Session #12 Ecosystems Navigating USFWS Consultation for E/T/R Species ABS 15, 61, 156 Hancock	Session #13 Water Resources Bioengineering Systems ABS 65, 95, 137 Spire	Chicago Sustainability Walking Tour
6:00 pm - 10:00 pm	President’s Dinner - Chicago Cultural Center				

SCHEDULE AT-A-GLANCE

WEDNESDAY, APRIL 13TH					
7:00 am - 8:00 am	Continental Breakfast Monroe (6th Floor)				
8:00 am - 9:30 am	Session #14 <i>Visual Resources</i> Inventory and Visibility Assessment ABS 40, 59 Watertower	Session #15 <i>NEPA - Cohen Summit</i> NEPA's Role in Government ABS 45 Adams	Session #16 <i>Ecosystems</i> Grand Calumet River Ecosystem Restoration ABS 120, 121, 122 Hancock	Session #17 <i>Climate Change</i> Forecasts & Impact Assessment ABS 30, 43, 106 Spire	
9:30 am - 9:45 am	Break Monroe (6th Floor)				
9:45 am - 11:15 am	Session #18 <i>Visual Resources</i> BLM Visual Resource Inventory ABS 146 Watertower	Session #19 <i>NEPA - Cohen Summit</i> Maximize Flexibility of CEQ Regs ABS 46 Adams	Session #20 <i>Ecosystems</i> Chicagoland Restoration Case Studies ABS 23, 100, 131 Hancock	Session #21 <i>Climate Change</i> Innovative Solutions ABS 14, 27 Spire	
11:30 am - 1:00 pm	Lunch and NEPA Case Law Update Empire Ballroom (Lobby Level)				
1:30 pm - 3:00 pm	Session #22 <i>Visual Resources</i> Scenery Mgmt. of National Trails ABS 127 Watertower	Session #23 <i>NEPA - Cohen Summit</i> Invest in Streamlining ABS 47 Adams	Session #24 <i>Ecosystems</i> Partnering for Success in Restoration ABS 53, 96, 118 Hancock	Session #25 <i>Sustainability</i> Sustainable Transportation Solutions ABS 71, 90, 128 Spire	
3:00 pm - 3:30 pm	Break Monroe (6th Floor)				
3:30 pm - 5:00 pm	Session #26 <i>Visual Resources</i> New Energy Landscape ABS 98 Watertower	Session #27 <i>NEPA - Cohen Summit</i> 21st Century Impact Assessment ABS 48 Adams	Session #28 <i>Cultural Resources</i> Chicago El-Train ABS 75 Hancock	Session #29 <i>Sustainability</i> Industrial Ecology ABS 62 Spire	<i>Chicago Architecture Walking Tour</i>
6:00 pm - 10:00 pm	Dine-Around Chicago (Cost on your own) Meet in the Lobby next to Hotel Registration				

SCHEDULE AT-A-GLANCE

THURSDAY, APRIL 14TH				
8:00 am - 9:30 am	Full Breakfast, Membership Meeting, Service Awards Empire Ballroom (Lobby Level)			
9:30 am - 9:45 am	Break - Monroe (6th Floor)			
9:45 am - 11:15 am	Session #30 <i>Public Involvement</i> EPA Env. Justice Initiatives ABS 86 Watertower	Session #31 <i>NEPA</i> NEPA Best Practices ABS 39, 74, 89, 138 Adams	Session #32 <i>NEPA</i> Mitigation & Post Env. Review ABS 19, 28 Hancock	Session #33 <i>Remediation</i> Strategies: Domestic & Abroad ABS 132, 133, 142 Spire
11:45 am - Noon	Hot Topic Lunches (HTLs) Pick up your lunch in Monroe and go to the HTL of your choice			
Noon - 1:15 pm	HTL #1 <i>Networking Lunch</i> Watertower	HTL #2 <i>NEPA - Cohen Summit</i> Summary & Next Steps ABS 49 Adams	HTL #3 <i>Networking Lunch</i> Hancock	HTL #4 <i>Sustainability</i> GSA Regional Sustainability Plan Spire
1:15 pm - 1:45 pm	Break Monroe (6th Floor)			
1:45 pm - 3:15 pm	Session #34 <i>Energy</i> National & Regional Issues ABS 31, 139, 152 Watertower	Session #35 <i>NEPA</i> Oil & Gas Risk Assessment ABS 76, 125, 153 Adams	Session #36 <i>Remediation</i> Resources, Waste, & Labor Sustainability ABS 35, 17, 111 Hancock	Session #37 <i>Cultural Resources</i> Cultural Resources Case Studies ABS 83, 104, 143 Spire
3:15 pm - 3:30 pm	Break - Monroe (6th Floor)			
3:30 pm - 5:00 pm	Session #38 <i>Energy</i> Future Proofing ABS 110 Watertower	Session #39 <i>NEPA</i> Tools & Techniques ABS 38, 60, 107, 129 Adams	Session #40 <i>Great Lakes / WR</i> Marine Protection / Stormwater Mgt ABS 37, 117, 130, 144 Hancock	Session #41 <i>Cultural Resources</i> Cultural Landscape Documentation ABS 126 Spire
FRIDAY, APRIL 15TH				
8:00 am - 3:00 pm	NAEP Board Meeting HNTB Office			

8:00 am – 5:00 pm

Coffee/Registration Open

WORKSHOP 8:00 am – Noon

Workshop #1: Night Skies: (8 am – Noon)

Room: HANCOCK

National Park Service: Natural Sounds and Night Skies

In recent years, increasing levels of noise and anthropogenic light have emerged as important new areas of natural resources management and environmental conservation. For more than a decade the National Park Service, Natural Sounds and Night Skies Division (NSNSD) has been developing concepts, principles, methodologies and protocols for assessing the condition of acoustic and photic environments and analyzing potential impacts from noise and light to park visitors and the natural and cultural resources we are charged with protecting. This half-day training will present methodologies for the assessment of impacts from anthropogenic light and noise on natural and cultural resources and national park visitors.

Noise analyses are common in many NEPA analyses. For decades, environmental impact statements and environmental assessments have addressed potential impacts from noise primarily in residential and urban areas. Over time accepted methodologies have emerged to measure and predict noise from highways, airport expansions, construction projects, and similar actions. These analyses are focused on increases in decibel levels and impacts are based on thresholds related to social and health effects of noise, such as the potential for hearing loss, or the percentage of the community that would be highly annoyed. These approaches and methodologies focus almost exclusively on potential human effects, while the impacts to wildlife, open space, wilderness values, and other natural and cultural resources are largely ignored.

In contrast to this human-centered approach, the National Park Service is charged with protecting the acoustic environments of parks from the adverse effects of noise. NPS Management Policies require parks to protect and preserve natural soundscapes including sounds that are part of the biological or other physical resource components of the park. Examples of such natural sounds include:

- sounds produced by birds, frogs, or katydids to define territories or aid in attracting mates;
- sounds produced by bats or porpoises to locate prey or navigate;
- sounds received by mice or deer to detect and avoid predators or other danger; or
- sounds produced by physical processes, such as wind in the trees, claps of thunder, or falling water.

For more than a decade the NSNSD has been developing principles, concepts, and methodologies for assessing impacts from noise to national parks, wilderness, and other protected areas. NSNSD has developed an impact analysis framework that addresses potential effects from noise to park visitors as well as impacts to wildlife, wilderness values, cultural landscapes, and other park resources and values. The first part

of this training will present the NPS methodology that uses various "functional effects" of noise to assess potential impacts to the natural soundscapes of parks.

More recently, there has been a growing awareness of the importance of star-filled night skies and natural light and dark cycles in fields of human health and environmental protection. Simultaneously, an increase in articles in the popular press has generated increased public appreciation of night skies and efforts to protect lightscapes in protected areas. As a result federal agencies are increasingly requiring an analysis of impacts from lighting in NEPA documents. Humans and wildlife have evolved under a regime of natural light and dark cycles and have developed a number of physiological traits and behaviors suited for these conditions. Satellite data has confirmed that the amount of light generated by human activity is increasing at an alarming rate and encroaching into historically dark areas. Research in medicine, public health, wildlife studies and other fields has identified a number of ways that anthropogenic light can affect humans, wildlife, and cultural landscapes, wilderness, and other environmental conditions. NSNSD has developed methodologies for assessing the condition of the night time photic environment and analyzing impacts to park resources from anthropogenic light. The second part of this training will present the NPS methodology for assessing potential impacts to park visitors, resources and values from light.

Instructor:

Frank Turina, National Park Service

Frank is the program manager for Policy, Planning, and Compliance for the NPS Natural Sounds and Night Skies Division. In this position, he specializes in incorporating science and research on the effects of noise and light on humans and wildlife into policy and guidance for protecting NPS resources and values. Working closely with acoustic specialists, biologists, social scientists, and other professionals, he was instrumental in developing the conceptual approach and methods used by NPS to manage and protect the acoustic and photic environment in parks. Dr. Turina played a key role in the development of the NPS Air Tour Management Program and led the development of the first NPS Soundscape Management Plan, for Zion National Park. Dr. Turina is also responsible for working with lighting specialists and scientists to incorporate sustainable lighting practices into park planning processes and developing and implementing protocols for determining impacts from light and noise on park resources. Prior to joining the NPS, Dr. Turina was an environmental planner at CH2M Hill, writing and managing the development of environmental analyses for highway, transit, and other public works projects. He earned a BS in park management (1985) from Pennsylvania State University, a master's degree in environmental policy and management (1993) from the University of Denver, and a PhD in public affairs/environmental policy (2009) from the University of Colorado.

Instructor:

Frank Turina, National Park Service

WORKSHOP 8:00 am – 5:00 pm (Lunch Included)

Workshop #2: NEPA Intermediate/Advance Topics (8am – 5pm)

Room: Adams

Intermediate/Advanced NEPA Workshop

National Environmental Policy Act (NEPA) practice is constantly evolving through new federal agency and Council on Environmental Quality (CEQ) guidance and federal court decisions. This workshop is primarily designed for Intermediate to Advanced NEPA practitioners who already have a basic understanding of NEPA. The workshop will be led by leading thought leaders in the areas of NEPA cumulative impact assessment, purpose and need and alternatives analysis, risk assessment, and climate change. The workshop will focus on some of the most frequently-evolving and complex issues facing NEPA practitioners today, and will cover recent policy changes and relevant court decisions. Topics covered include:

- Crafting a defensible Purpose and Need statement
- Alternatives analysis
- Cumulative impacts analysis
- Mitigation and monitoring
- Climate change analysis
- Integrating risk assessment into NEPA analyses

Instructors:

Brent Miyazaki, AECOM

Mr. Miyazaki has over 30 years of professional experience working on major energy infrastructure projects, including over 20 years meeting National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) requirements on a broad range of projects. This includes extensive direct experience interfacing with regulatory agencies during permitting and environmental impact assessment for multiple electrical and energy infrastructure projects. Through these projects, he interacted with multiple resource and regulatory agencies, including BLM, USACE, CPUC, CDFW, RWQCB and others. He has drafted Alternative discussions for multiple complex projects. These analyses involved a phased review, progressing from system alternatives to routing options, and finally site alternatives. He also applied risk-based assessment approaches to evaluating potential environmental impacts on various energy infrastructure projects. These include electrical facilities, oil and gas wells, and natural gas pipelines.

Matt Petersen, AECOM

Mr. Petersen has worked as resource specialist and managed or provided NEPA oversight for over 30 large-scale EISs, including projects from Alaska to Vermont. This includes work with most major federal agencies and encompasses mining, oil and gas, pipelines, transmission lines, wind farms, airports, and power plants. He has taught custom NEPA seminars for the Forest Service, BLM, and other federal agencies and industry clients. Matt specializes in managing, providing NEPA oversight to and alternatives facilitation for large-scale, controversial projects. He has managed or led alternatives development efforts for multiple mining, airport, and

agency resource management plan EISs. His recent experience (last three years) includes managing the TransWest Express Transmission Line EIS and the Bald Mountain Mine Expansion EIS, and providing alternatives facilitation for the Converse County Oil and Gas EIS, the BLM San Pedro National Riparian Conservation Area Resource Management Plan (RMP) EIS, the BLM Bering Sea Western Interior RMP EIS, and the BLM Central Yukon RMP EIS. Matt has developed several open enrollment NEPA courses which he routinely teaches to industry professionals, lawyers, and agency staffs. He is a regular instructor on NEPA impact analysis and third-party consulting for the BLM National Training Center (NTC).

Dale Sands, AECOM

Mr. Sands is Senior Vice President, Global Director of Climate Adaptation and Metro Services in the Environment Business Line for AECOM, a Los Angeles-based \$18 billion global provider of professional technical and management support services serving clients in 150 countries. Based in Chicago, Mr. Sands has over 35 years of environmental experience in 65 countries. A frequently invited speaker to major conferences, Mr. Sands' numerous publications and presentations, include the 5th International Disaster and Risk Conference (Davos, Switzerland), Plenary Session Chair, 5th Africa Platform for Disaster Reduction (Nigeria), and Keynote speaker at the Glass Performance Days Conference (Finland). Mr. Sands is a contributing author to AECOM's new guide for the private sector: Becoming Climate Resilient –

An Executive Business case for Climate Resilience. He just completed a two year term as Vice Chair, UN Private Sector Advisory Group for Disaster Risk Reduction (UNISDR), a membership of 100 companies from over 40 countries. Mr. Sands was a Board member of UNISDR PSAG since 2011. He was actively involved in private sector input to the Sendai Framework for Disaster Risk Reduction, which was approved by 187 member states at the Sendai Conference in March, 2015. Sands leads AECOM's partnership with IBM in developing the Resilient Cities scorecard which assists cities in assessing preparedness and resilience to natural disasters such as severe storms, sea level rise, floods, droughts, wildfires, earthquakes. The Disaster Resilience Scorecard received the Notre Dame Global Adaptation Index Prize for 2015. Mr. Sands is also leading the AECOM/IBM team to develop a resilience scorecard focused on small- to mid-size businesses which will be released in 2016 after pilot testing in New Orleans.

Michael D. Smith, ENERCON

Dr. Smith is a nationally-recognized leader in National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) compliance with over 20 years of experience in project and program management, technical analysis, policy development, climate change analysis, and training/education for a wide range of public and private sector clients. He is currently a Principal with ENERCON in the San Francisco Bay Area, an architectural engineering, environmental, technical and management services firm providing a broad range of professional services to private, public, and government sector clients throughout the United States and internationally. He has managed and provided compliance review for some of the nation's largest, most complex, and highly controversial projects, including major energy and transportation infrastructure projects, regulation of genetically engineered plants, commercial space transportation operations, and approval of new fuel economy standards for all vehicles operated in the U.S. He frequently provides training and strategic advice for NEPA, CEQA, and related environmental compliance requirements for public and private sector clients as a faculty member at the University of California, Davis Extension Land Use and Natural Resources Program, the UCLA Extension Sustainability Program, the NEPA Certificate Program at the Quinney College of Natural Resources at Utah State University, and as a Senior Consultant at The Shipley Group. He is a past recipient of a Science & Technology Policy Fellowship with the American Association for the Advancement of Science (AAAS) at EPA's Office of Water and Office of Federal Activities in Washington, DC. From 1998 to 2007, he was an Associate Professor of Environmental and Natural Resources Sciences at Humboldt State University in northern California.

Instructors:

Brent Miyazaki, AECOM

Matt Petersen, AECOM

Dale Sands, AECOM

Michael D. Smith, ENERCON

WORKSHOP 1:00 pm – 5:00 pm

Workshop #3: Career Development (Afternoon): (1 pm – 5 pm)

Room: Hancock

Career Development

Interdisciplinary Team Management

With few exceptions, environmental reviews of land management decisions and major proposed state and federal actions require more than one area of expertise to analyze and document. The person selected to be the team leader will be responsible for creating a management plan to address the project and assembling an interdisciplinary team with a shared vision. The team must be able to process and analyze the information and provide an outcome that meets the goals of the project. Achieving success requires that the team leader create synergy among the team members and have a well-designed plan for success. The leader must foster a work environment where collaboration and deliberation can lead to an outcome that resulted in sound resource management decisions.

While scientists of a similar discipline and similar lexicon can effectively communicate with one another, this does not necessarily carry over to the required dynamic interactions of an interdisciplinary team. Team leaders need to know how to manage the team members, create an environment where there is effective communication between the disciplines and keep the team working as a unit. Adding to this challenge are the predispositions and values of team members, external influences, time restraints and budget limitations. This half-day workshop will provide team leaders and members with an overview of how to create a management plan that attains the project goals, forms a collaborative, harmonious team and maintains productive working relationships among team members throughout the project's duration.

Effective Community Engagement

In case you have not noticed, the public is watching us and they are no longer passive about decisions related to the environment. Given this reality, it is important for environmental professionals to learn how to engage the public and make sure they are active participants in the decision-making process. Social media has created an easily accessible and efficient network for persons interested in a proposed action to monitor the decision-making process. With citizen interest and an effective means of communication, unilateral actions by regulators seldom go unnoticed. Rather than avoiding public input as some scientists might prefer, engaging the public in the issues and seeking their input and support significantly decreases the chances of a decision challenge and them seeking legal means to delay/stop an action from proceeding. This session will cover the principles of successful community engagement and examine how the public becomes well-informed and

effectively involved in the decision-making process. This session also presents case study/lessons learned examples of successful community engagement by governmental agencies.

Instructors:

Ron Deverman, HNTB

Ron is Associate Vice-President for HNTB, a national engineering, architecture and planning firm, managing environmental impact assessment projects for transportation infrastructure improvements such as transit, passenger and freight rail, roadways, and bridges. Ron has over 30 years' experience in the National Environmental Policy Act (NEPA) with special expertise in community impact assessment, cumulative effects analysis, and federal environmental regulations, such as the Clean Air Act, Clean Water Act, National Historic Preservation Act, and Threatened and Endangered Species Act. Ron is a Past President of NAEP, a published poet, and has spoken nationally on many subjects, including key competencies for environmental professionals, environmental stewardship, and public health impacts and benefits of our transportation choices.

Cheryl Vaccarello, Tetra Tech

Cheryl is a community outreach manager with over 25 years of media relations, risk communication and facilitation experience. She provides support for clients in government and private sectors. She currently manages numerous USEPA community involvement projects throughout the Midwest and Southeast. Project support includes onsite support at sites. Ms. Vaccarello has developed and implemented public outreach and involvement strategies and toolkits at numerous sites for various clients. Her work in this area has included developing demographic and economic community profiles; conducting community interviews; preparing community involvement plans; developing risk communication strategies; designing poster displays; developing fact sheets and other informational materials for distribution to local communities; and conducting door-to-door canvassing to speak with individual community members about planned and ongoing activities at sites near their homes. In addition, Ms. Vaccarello provides facilitation and logistical support at various public meetings, open houses, and informational forums and workshops.

Barbara Stuckey, theExact Word

Barbara is President of theExact Word training company. She holds a patent for organizing English into a binary system for writing, thinking, and identifying learning and thinking styles. TheExact Word experience introduces a genuinely new, interdisciplinary communications template. Barbara has engaged in communications learning with over 32 clients, including four major universities, several Fortune 500 companies, and the U.S. Department of Education.

Instructors:

Ron Deverman, HNTB

Cheryl Vaccarello, Tetra Tech

Barbara Stuckey, theExact Word

Monday, April 11th

RECEPTION 5:00 pm – 7:00 pm

Networking Reception

5 pm – 7 pm

Room: Monroe (6th Floor)

Tuesday, April 12th

8:00 am – 5:00 pm

Registration/Exhibits/Posters – Monroe Room (6th Floor)

Poster Presentations – Posters will be on display Tuesday through Thursday in the exhibit area – Monroe Room

2016 TRACK	NAME	ABSTRACT TITLE	AFFILIATION
Sustainability	Jessica Vacala & Andy Paxson	The Integration Of The CCDD Program Into Land Reclamation	Winston Engineering As A Member Of LRRA
Sustainability	Hannah Brandenburg	Cultural And Environmental Sustainability Of Multicultural Events In Missouri	Cottey College
Ecosystems	Damon Sinars	Changed Circumstances: Operational Energy Generation Facilities And Federally Listed Species	SWCA Environmental Consultants
Cultural	Daniel Cassedy	Historic Preservation Compliance for The Hudson River PCBS Superfund Site	AECOM
NEPA	Amanda Childs	Plain Language And Public Disclosure: Not As Easy As They Sound	SWCA Environmental Consultants
Water Resources	Kristan Cockerill	No Solutions: Water Management In The 21st Century	Appalachian State University
Sustainability	Ujjaini Das	The Present Status Of Electronic Waste Policy In India	Cottey College
NEPA	Nikkole Hughes	Tiers Of Failure: Implementation Of NEPA In The Case Of The Deepwater Horizon Oil Spill	The Evergreen State College
Ecosystems	Jonathan Koepke	Northerly Island Ecosystem Restoration	Encap, Inc.
Energy	Ahmed Wafik Noseir	The Impacts Of EMF & Cellular Phone Towers And Antennas And Biogeometry Solutions	EMC2
Ecosystems	Michael Sackschewsky	Development Of A Migratory Bird Protection Program At Pacific Northwest National Laboratory	Pacific Northwest National Laboratory
Water Resources	Maria Sicay Lux	Comparing Levels Of Phosphates In Water Bodies In Nevada Missouri With Lake Atitlan Guatemala	Cottey College

8:00 am – 9:30 am

Welcome, Felicia S. Davis, Chicago Public Buildings Commission; Keynote, Cameron Davis; USEPA
Room: Empire Ballroom (Lobby Level)

9:30 am – 9:45 am

BREAK
Room: Monroe (6th Floor)

9:45 am – 11:15 am

Session #1: Visual Resources - Federal Perspectives
Room: Watertower

Recent years have seen a resurgence of visual resource-related activities within U.S. federal agencies. For example, eleven federal agencies are engaged in an effort to develop guidance to improve decision making for shared visual resources, including scenic views and the settings of historic properties. The Bureau of Land Management (BLM) is rolling out a revised policy on the management of visual resources. This policy sets forth new directives for the BLM's inventory and management of scenic values, including NEPA analysis and mitigation requirements. Further, there is increased public appreciation of night skies, and federal agencies are developing methods to protect lightscapes in protected areas. The National Park Service has developed a methodology for assessing potential impacts to park visitors, resources and values from anthropogenic light. Presentations for this session discuss these important new efforts from the federal agency perspective.

Moderator:

Robert Sullivan, *Argonne National Laboratory*

Speakers

John McCarty, *Bureau of Land Management*

Carol McCoy, *National Park Service*

Frank Turina, *National Park Service*

Session #2: NEPA – Programmatic NEPA

Room: Adams

This panel will explore various aspects of programmatic NEPA with a focus on the benefits that programmatic NEPA can bring in terms of decision-making and efficiency. The panel will be made up of four presentations that will provide insights into: 1) the diversity of programmatic NEPA documents; 2) the ways they can be implemented to efficiently authorize activities; 3) consultation under other laws that can be undertaken in concert with programmatic NEPA to enhance effectiveness; and 4) an industry perspective on programmatic NEPA.

Moderator:

Shannon Stewart, *ESA*

Speakers:

Carol-Anne Garrison, *EMPSi*

Stacy Mason, *Bonneville Power Administration*

Konnie Wescott, *Argonne National Laboratory*

Lee Walston, *Argonne National Laboratory*

Ken Borngrebe, *Southern California Edison*

Session #3: Cultural Resources – Cultural Resources GIS Techniques

Room: Hancock

This broad session addresses how various forms of mapping, GIS, and LIDAR technology/imagery can assist archaeologists and historians in completing the research, survey, inventory, and reporting necessary to helping clients meet their NEPA/NHPA requirements. First, fire insurance map expert David Hodnefield provides a short history of fire insurance maps in the United States and how they are currently used by historic preservation professionals and environmental consultants. Next, Paul Webb discusses how GIS mapping was used to support Section 106 compliance during two contentious construction projects at airports in North Carolina. A major feature of this project is a web-based GIS map that will provide airport sponsors, engineers, and tribal, state, and federal agencies easy and secure access to a comprehensive and consistent set of cultural resource and environmental information and recommendations, with the goals of facilitating future consultation and improving the consideration of important sites and resources in project planning. Third, Chris Elison presents a case study in which LiDAR was used as mitigation to document historic structures and features associated with the historic Olmsted Hydroelectric Power Plant located in Orem, Utah. Finally, Daniel Bigman uses case studies from scenarios that range in purpose from historic preservation and public archaeology to pipeline construction and land development to explore the application of noninvasive geophysical survey methods (e.g., ground-penetrating radar, electromagnetic conductivity, magnetometry, and earth-resistance) to the cultural resource management of cemeteries.

Moderator:

Heather Miller, *Historical Research Associates*

Speakers:

David Hodenfield, *Historical Information Gatherers*

Paul Webb, *TRC Environmental Corporation*

Dana Perkins, *Environmental Program Manager & Airport Planner at the FAA in Atlanta*

Chris Elison, PE, *NEPA Compliance Coordinator for the Central Utah Water Conservancy District*
Daniel Bigman, *Bigman Geophysical, LLC*

Session #4: Transportation – CREATE Program

Room: Spire

The panelists will provide an overview of the Chicago Region Environmental and Transportation Efficiency (CREATE) Program, including a description of how the private-public partnership manages rail infrastructure projects in the area. This will include the background and context behind the development of the public-private partnership, as well as several distinctive aspects of the Program including the program-specific environmental review strategy developed to comply with NEPA and the CREATE Program Environmental Justice Policy. The panelists—which will include representatives from the Chicago Department of Transportation, the Illinois Department of Transportation and the Federal Highway Administration—will provide agency and practitioner perspectives on processing CREATE Program projects under NEPA and the application and implementation of the environmental justice policy. CREATE is a nationally-prominent rail infrastructure program managed by the unique partnership of the U.S. DOT, State of Illinois, City of Chicago, Metra, Amtrak, and the Association of American Railroads acting on behalf of six of the nation's Class I freight railroads, as well as Amtrak, and Metra. The total cost of the CREATE program is estimated at \$4.4 billion in 2015 dollars with \$1.2 billion received and programmed to date. The estimated benefits of the full CREATE Program are estimated at \$28.3 billion over 30 years after all of the project components are operational.

Moderator:

Adin McCann, *HNTB*

Speakers:

Emily Kushto, PhD, *IDOT*

Janis Piland, *FHWA Illinois Division*

Jeffrey Sriver, *CDOT*

Janice Reid, *HDR*

Session #5: Water Resources – Surface Water Remediation

Room: Grant Park

This session will focus on various aspects and approaches to surface water remediation. Presentations will focus on the use of non-traditional funding sources to achieve both environmental and water quality improvement and cost-savings; the results of a pilot study initiated by the Illinois Toll Authority to determine the effectiveness of bioswales in reducing stormwater quantity with the intent of improving stormwater quality; results of a comprehensive ecological assessment being conducted by scientists at Tetra Tech to identify sources of habitat degradation at a stream-pond complex in the Maumee Area of Concern in Ohio; and a report on a unique financing mechanism developed by the Iowa Department of Natural Resources and Iowa Finance Authority, which allocates \$10 million annually to fund locally directed, watershed-based efforts to address water quality problems.

Moderator:

Ward Marotti, *NCAEP*

Speakers:

Ward Marotti. *NCAEP* "Turning Liabilities into Assets: Local Government Stream and Wetland Restoration"

John Munro & Robert Ouellette, *University of Maryland*, "Establishing Effective Management in the United States in the Face of Climate Change with a Special Focus on California: Challenges and Barriers"

Adam Peterca. *Tetra Tech*. "Ecological Assessment of an Urban Headwaters Tributary within the Maumee Area of Concern"

Tiffany Wilson-Willard. *Iowa Department of Natural Resources*. "New Water Resource Restoration Sponsored Project Financing Makes Big Impacts for Iowa Communities Improving Water Quality"

11:45 am – 1:15 pm

Networking Lunch and Environmental Excellence Awards
Room: Empire Ballroom (Lobby Level)

1:45 pm – 3:15 pm

Session #6: Visual Resources - National Park Service Visual Resources Program

Room: Watertower

In 2016, the 100th anniversary of National Park Service (NPS), the agency will launch its new visual resource program (VRP). The VRP is a comprehensive inventory, planning and park assistance program covering all aspects of visual resource management. The program helps parks identify and understand their scenic resources to better enable them to develop protection strategies through best management practices and collaborative efforts. A key component of the VRP is the visual resource inventory (VRI). Because historic and cultural resources are essential to the scenic experience of NPS visitors, the NPS VRI incorporates historic and cultural elements and values into the scenic inventory process. Presentations for this session include overviews of the VRP and the VRI, as well as case studies demonstrating VRP applications in national parks.

Moderator:

Carol McCoy, *National Park Service*

Speakers:

Mark Meyer, *National Park Service*

Robert Sullivan, *Argonne National Laboratory*

Jim Von Haden, *US Dept. of the Interior, National Park Service*

Session #7: NEPA – NEPA Case Studies

Room: Adams

This session will present challenges and lessons learned from three recent high-profile NEPA analyses, including a major harbor deepening project in the southeastern U.S., a major rail transit project in the Pacific Northwest, and disaster recovery activities associated with Hurricane Sandy cleanup and rebuilding.

Moderator:

Bill Gorham, *AECOM*

Speakers:

Jamie Higgins, *U.S. Environmental Protection Agency* “Savannah Harbor Expansion Project: An Adaptive Management Approach”

Kent Hale, *Sound Transit* “Integrating Federal and State Environmental Review for Mass Transit Expansion”

John Bock, *Tetra Tech* “Lessons Learned: Hurricane Sandy Disaster Recovery Environmental Reviews”

Session #8: Ecosystems – USACE Great Lakes Initiatives

Room: Hancock

The U.S. Army Corps of Engineers, Chicago District, is involved in a variety of projects stemming from its primary mission areas of Flood Risk Management, Shoreline Protection, Navigation, Environmental Programs, Emergency Management and Support for Others. In the greater Chicagoland area, this has included many high profile Great Lakes Initiatives, three of which will be discussed in this panel. In the presentations, USACE will offer an overview of Asian Carp Barriers both currently in place and under construction in the Chicago Area Waterways System. Additionally, two recent Ecosystem Restoration projects undertaken in Chicago will also be discussed, including the Northerly Island Ecosystem Restoration (formerly Chicago’s Meigs Field Airport) and the Jackson Park Ecosystem Restoration.

Moderator:

Betty Dehoney, *HDR*

Speakers:

Gene Fleming, *USACE Chicago District*

Chuck Shea, *USACE Chicago District*

Frank Veraldi, *USACE Chicago District*

Session #9: Sustainability – Public Land Planning

Room: Spire

There are three parts to this session on public lands. The U.S. Department of the Interior Bureau of Land Management (BLM) manages 248 million acres of public land. They face planning challenges as demographics grow and change and climate change is always a contentious topic that is on the rise. The past landscape approach by BLM was sufficient at looking at the natural resource perspective, but now that approach fails to understand the human systems. Join us as we dive into the new approach BLM is using with assistance from Argonne National Laboratory. The second part of this session will discuss the Resource Stewardship Guidance Tool (RSGT) that is used to identify natural and cultural resources that are at risk from the impacts of transportation projects in the National Park Service. This web-based support tool allows transportation and resource planners to extract appropriate strategies for the park, regional or national scale. This session also will provide an overview of the Reconstruction of I-95 in Philadelphia. Some interesting elements of this project include a “complete street” approach for integrating green approaches to infrastructure improvements of lighting, pedestrian crossings, park space, and public art.

Moderator:

Renee Kuruc, *IAEP*

Speakers:

Marian Huff, *AECOM*

Karla Rogers, *Bureau of Land Management*

Erin Bibeau, *Logan Simpson*

3:15 am – 3:30 pm

BREAK

Room: Monroe (6th Floor)

3:30 pm – 5:00 pm

Session #10: Visual Resources – Visual Impact Assessment

Room: Watertower

Public concern over adverse visual impacts from proposed projects can be a major source of project opposition. Accurate visual impact assessment (VIA) is essential to informed public participation and project decision making. VIA is a complex technical undertaking. A variety of VIA methods exist, partly because VIA requirements vary when different regulatory agencies are involved, but also because there are situations where there are no requirements, and no accepted standard for VIA methodology exists in these cases. This session is devoted to discussion of VIA methodology. Presentations include a general model for VIA with an electric transmission case study; new VIA guidance for highway projects from the Federal Highway Administration; and the determination of impact significance, a critical issue in VIA.

Moderator:

John McCarty, *Bureau of Land Management*

Speakers:

James Palmer, *T.J. Boyle Associates*

Craig Churchward, *Avenue Design Partners*

Louise Kling, *AECOM*

Session #11: NEPA – Cumulative Impact Analysis

Room: Adams

The Council on Environmental Quality issued guidance in 1997 and 2005 on developing a cumulative impact analysis. Washington Department of Transportation in partnership with Federal Highway Administration and the Environmental Protection Agency Region X issued guidance in 2008 on developing cumulative analyses, but there is still ambiguity, especially for long linear projects. How should a meaningful cumulative analysis be conducted and documented for a linear project that stretches for miles, and specifically how should the geographic and temporal boundaries used for the analysis be determined? This panel discussion will present three professionals' experiences in the fun-filled yet sometimes trying adventures of developing cumulative impact analyses for long linear projects, including a 265-mile transmission line project in Oregon, a 140 mile

natural gas pipeline in Washington state, a 730 mile direct current transmission line in Wyoming and Nevada, and a 315 mile natural gas pipeline in Alaska.

Moderator:

Molly Brown, *HDR*

Speakers:

Molly Brown, *HDR*

Matt Peterson, *AECOM*

Amy Rosenthal, *AECOM*

Session #12: Ecosystems – Navigating USFWS Consultation for E/T/R/ Species

Room: Hancock

Navigating USFWS consultation under the Endangered Species Act and the Bald and Golden Eagle Protection Act

Section 7 of the Federal Endangered Species Act (ESA) requires Federal agencies to consult with the U.S. Fish and Wildlife Service (USFWS) to ensure that any action authorized, funded, or carried out by a Federal agency will not likely jeopardize the continued existence of any endangered or threatened species. The presence of bald or golden eagles or their nests also requires USFWS consultation. This panel will provide real world examples of projects requiring coordination, permitting, and mitigation with the USFWS under these laws, including examples of projects undertaken by the Nuclear Regulatory Commission and the Bureau of Reclamation.

Moderator:

Betty Dehoney, *HDR*

Speakers:

Peyton Doub, *U.S. Nuclear Regulatory Commission*

Faye Streier, *U.S. Department of the Interior, Bureau of Reclamation*

Robert P. Sliwinski, *Christopher B. Burke Engineering, Ltd.*

Session #13: Water Resources – Bioengineering Systems

Room: Spire

This session will focus on integrated bioengineering systems and technologies to address waste water, stormwater, and reservoir water quality problems. Presentations include a detailed design method for a water evaporation system for use in mineland areas that is based on the continuity principle and conservation of mass and that uses historical data to predict future requirements for the evaporation area and contaminated water storage, the use of artificial neural networks (ANN) to provide more accurate eutrophication prediction for reservoir water quality management, and innovative methods for incorporating stormwater management principles into the design of trash transfer stations.

Moderator:

James Montgomery, *DePaul University, Department of Environmental Science and Studies*

Tuesday, April 12th

Speakers:

Jeff Cheng, *St. Cloud State University* “Contaminated Water Evaporation System Design for the Tailing Facility of Mining”

Xiaojue Tao, *North Carolina Agricultural and Technical State University* “A Systematic Approach to Applying Artificial Neural Network in Reservoir Eutrophication Prediction”

Hans DeBruijn, *Fresh Creek Technologies* “Innovative Stormwater Management applied under Environmental Site Design at a Trash Transfer Station in Baltimore County, Maryland, Fresh Creek, Technologies”

***Chicago Sustainability
Walking Tour***

3:30 pm – 5:15 pm

(Meet in the Lobby)

6:00 pm – 10:00 pm

President’s Dinner

Location: Chicago Cultural Center, Preston-Bradley Hall, Third Floor
78 East Washington Street
Chicago, Illinois

7:00 am – 8:00 am

Continental Breakfast
Monroe (6th Floor)

8:00 am – 9:30 am

Session #14: Visual Resources - Inventory and Visibility Assessment

Room: Watertower

In both visual resource inventory and impact assessment, technical issues surrounding the concepts of views and visibility are critical to accurate analysis. The concept of a view is important for scenic inventories because people experience the landscape as a collection or succession of views. In some systems, individual views are the basic unit of inventory, while in other approaches, aggregated views become the basis for identifying areas with similar scenic character, and these areas become the units of inventory. The precise determination of visibility of elements in the view is essential to accurate visual impact assessment, but sometimes receives inadequate consideration as a result of an assumption that it is a straightforward geographic information system analysis. This session includes presentations addressing methodological issues concerning the identification and assessment of inventory units based either on views or on “landscape rooms”, and a presentation discussing important considerations in the determination of visibility for impact assessment.

Moderator:

Mark Meyer, *National Park Service*

Speakers:

Geoffrey Brady, *Otak, Inc.*

James Palmer, *T.J. Boyle Associates*

Session #15: NEPA – Cohen Summit – Organize NEPA’s Role in Government and Recommit Senior Leadership

Room: Adams

A key theme from the Cohen NEPA Summit is the role NEPA actually does or does not play in decision-making. The current organizational structure in most federal agencies may not lend itself to ensuring that key people are in the right position to influence decisions that should benefit from the analysis coordinated under NEPA. Staff managing the NEPA process have been cut in many agencies and remaining staff may have little or no experience or training in managing the NEPA process. Organizational placement can affect the integrity and value of the NEPA process for a given project or program. The successful use of NEPA to solve environmental issues and blend environmental goals with social, economic, security, and other needs occurs when senior managers get involved, and agencies do not simply defer to consultants. NEPA is much more than a document, it is at the heart of how an agency carries out its public tasks in a responsible way, while using the best science and accountability tools. To truly embrace the letter and spirit of the statute, the leadership of an agency must be engaged in its implementation. This panel will discuss research on how the

role of senior agency leadership affects the success of NEPA practice and examples where NEPA is and is not embraced as a decision-making tool. The panel will solicit ideas from conference attendees on how to improve this aspect of NEPA practice.

Moderator:

Dinah Bear, *CEQ (Retired)*

Speakers:

Michael Dombeck, *U.S. Forest Service (Retired)*

Ray Clark, *RiverCrossing Strategies*

Lynn Scarlett, *The Nature Conservancy*

Session #16: Ecosystems – Grand Calumet River Ecosystem Restoration

Room: Hancock

The Grand Calumet River (GCR), originating in the east end of Gary, Indiana, flows 13 miles through the heavily industrialized cities of Gary, East Chicago and Hammond. It was named an Area of Concern (AOC) under the Great Lakes Water Quality Agreement of 1987. Of the 43 listed AOCs, the GCR AOC was designated as the most highly impaired AOC, as all 14 of its listed beneficial uses were determined to be impaired. This panel will focus on the design considerations and remedial actions undertaken on the East Branch section of the GCR; remediation began in 2012 and was completed in 2015. Project design considerations and performance monitoring during and after installation will be discussed, including challenges encountered due to fluctuating water levels, invasive species, and predation. The project dredged or excavated over 300,000 cubic yards of contaminated legacy sediment, capped 20 acres of sediment in place, and restored 58 acres of wetlands. An overview of the public communication efforts undertaken during project implementation, including public meetings, mailings, community sensing sessions, and project websites, will also be discussed.

Moderator:

Katriina Timm, *HDR*

Speakers:

James Wescott, *Tetra Tech*

Amber Bixler, *Tetra Tech*

Cheryl Vaccarello, *Tetra Tech*

Session #17: Climate Change – Forecasts & Impact Assessment

Room: Spire

This session will summarize the most recent global agreements to control greenhouse emissions and the methods being used to assess these emissions and associated climate change impacts in the U.S. The first presentation will briefly review the results of the 21st Conference of the Parties to the United Nations Framework Convention on Climate Change held in Paris, France in December, 2015. The ramifications of the agreement reached on continued increases in global average temperature will be discussed, and several questions involving the U.S. component of the historic agreement will be considered, including: What are the likely next steps after the conference, and how will these steps affect how climate change impacts are

assessed, mitigated, or adapted to in the U.S.? The second presentation will summarize how the Council on Environmental Quality's Revised Draft Guidance for Greenhouse Gas Emissions and Climate Change in National Environmental Policy Act (NEPA) Reviews and other guidance have shaped how greenhouse gas emissions and climate change are considered in NEPA reviews. The presentation will note how these considerations vary from agency to agency and project to project. A representative sampling of Environmental Impact Statements published in 2014 will be reviewed in order to observe: (1) whether or not the effects climate change on the proposed action are addressed; (2) if addressed, is the assessment consistent with the CEQ's Revised Draft Guidance; (3) when addressed, how is this information presented and how does this vary within and between agencies. From this review, observed patterns in approaches to documentation of climate change implications on proposed actions and a qualitative assessment of the effectiveness of those approaches will be summarized. The third presentation will discuss how the potential impacts of climate change should be considered in the location and design of major infrastructure projects. Climate change and its effects have important implications for infrastructure construction, maintenance, and operation. Climate-related phenomena such as flooding and heat waves can directly impair the performance and longevity of buildings and infrastructure. These phenomena can also alter the nature and magnitude of environmental impacts associated with a particular project, such as surface runoff and releases of hazardous substances. Finally, climate change can increase the vulnerability of the surrounding environment to the impacts of a project. The presentation will describe a set of model protocols for assessing the impact of climate change on infrastructure projects and selecting appropriate risk mitigation measures. The protocols include recommendations on how to account for the effects of climate change when making decisions about categorical exclusions and environmental assessments, as well as a more detailed set of procedures to follow when preparing a full environmental impact statement.

Moderator:

Richard Burke, *TRC*

Speakers:

James Gregory, *HDR*

Jessica Wentz, *Sabin Center for Climate Change Law, Columbia Law School*

9:30 am – 9:45 am

BREAK

Room: Monroe (6th Floor)

9:45 am – 11:15 am

Session #18: Visual Resources - BLM Visual Resource Inventory

Room: Watertower

The BLM's Visual Resource Inventory (VRI) provides the foundation for management of the visual landscape setting at a regional scale as well as the basis for project-level visual impact analysis and compliance evaluation. Primarily because of the onset of planning for major renewable energy projects and multistate

transmission lines and pipelines, in 2009 the BLM issued an Instruction Memorandum directing all BLM field offices (FOs) to complete or update their VRIs, and to have visual resource management classes designated within land use plans. Over the last five years, BLM has made a concerted effort to complete VRIs for all FOs, and the majority of the BLM-administered lands have been inventoried. The results of these inventories will be presented by a panel of senior visual resource specialists that have been intimately involved in the completion of the VRIs. The panelists will share their opinions and observations from the recently completed VRIs.

Moderator:

James Palmer, *T.J. Boyle Associates*

Speakers:

Chris Bockey, *Logan Simpson*

Geoffrey Brady, *Otak Inc.*

John McCarty, *Bureau of Land Management*

Session #19: NEPA – Cohen Summit – Maximize Flexibility of the CEQ Regulations

Room: Adams

The CEQ regulations are now nearly 40 years old. However, current NEPA practice generally fails to take into account the flexibility built into these regulations, and thus one of the quickest and simplest ways to reinvigorate NEPA could be CEQ guidance on using the regulations in new and exciting ways. Further, one of the central tenets of NEPA is to promote transparency. However, some current NEPA practice does not promote transparency to the degree that it could and should. The Cohen NEPA Summit participants recognized that lack of transparency in NEPA limits the ability of NEPA to influence decision-making, and makes analyses of NEPA itself problematic. Better access to documents, data, and personnel would improve public and agency involvement. Actions that might further this goal include the establishment of a publicly accessible, searchable website or set of websites with all pending and completed EAs and EISs, including geolocation. EPA's "NEPA Assist" is a recent example of this type of tool. This panel will discuss examples of how the flexibility in NEPA is and is not embraced and where open processes have been used. The panel will solicit ideas from conference attendees on how to improve this aspect of NEPA practice.

Moderators:

Don Baur, *Perkins Coie*

Speakers:

Ted Boling, *President's Council on Environmental Quality*

Ron Lamb, *U.S. Marine Corps*

Mark Squillace, *University of Colorado, Boulder School of Law*

Session #20: Ecosystems – Chicagoland Restoration Case Studies
Room: Hancock

The greater Chicagoland area is highly urbanized and industrialized, making the protection and regulation of its remaining natural resources that much more important. Although highly urban, the area is still home to many areas rich in natural resources, including several nature preserves, wet prairies and dune and swale wetland complexes. Before development, much of northwest Indiana and the Chicagoland area was dune and swale wetland with interspersed prairie and savanna pockets. This panel will include a presentation on wetland impacts and required mitigation associated with improvements to the Indiana Toll Road (I-90), where some of the highest biodiversity remaining in Indiana (and the Midwest) is present in the project area. An overview of green initiatives being undertaken by the Illinois Tollway and an overview of biological monitoring of fish and mussels undertaken by the Kane County (Illinois) Division of Transportation will also be presented.

Moderator:

Christine Meador, *HNTB*

Speakers:

Greg Quartucci, *Cardno*

Robert Sliwinski, *Christopher B. Burke Engineering, Ltd.*

Bryan Wagner, *Illinois State Toll Highway Authority*

Session #21: Climate Change – Innovative Solutions
Room: Spire

This session will discuss examples of effective solutions to reduce greenhouse gas emissions at both the technical and policy levels. One technical solution is greater use of offshore wind energy. As the U.S. embarks on a new frontier of clean energy alternatives, the Department of the Interior's Bureau of Ocean Energy Management (BOEM) has the responsibility of leasing for renewable energy development in the ocean environment. BOEM's mission is to promote energy independence, environmental protection and economic development through responsible, science-based management of offshore renewable energy. BOEM grants leases, easements, and rights-of-way for safe and environmentally responsible renewable energy development activities on the outer-continental shelf (OCS). The renewable energy program of BOEM anticipates future development on the OCS from three general sources: offshore wind energy, ocean wave energy, and current energy. The Cape Wind Energy Project Final Environmental Impact Statement (2009) found that operation of the 1,600 GWh of power that the Cape Wind Energy Facility would result in the potential to lower emissions of CO₂ in New England. Development of the seven commercial wind energy leases in the Atlantic Ocean would result in an annual reduction of approximately five tons of CO₂. While this number is not significant, it does confirm that ongoing offshore renewable energy could potentially reduce anthropogenic contributors to climate change. The methodology used to conduct a benefits analysis for the climate based upon the development of the seven commercially leased federal offshore wind energy areas and the resulting conclusions will be presented. Policy changes are also important to achieving greenhouse gas reductions. Despite the abundance of information on man-made contributions to climate change, the U.S. Congress has taken no action because of many members who have the view that man-made climate change is an unproven theoretical proposition of dubious legitimacy. International agreements that require fulfillment of national commitments to CO₂ reductions have also failed due to the conflict between immediate national interests and long-term survival. This presentation will explore the nature of long-term policy change using Dr. Paul Sabatier's Advocacy Model of Long-Term Policy Change (1993; 2012) to explore the current political and

cognitive dynamics and barriers preventing the institution of solutions that could mitigate the current rate of temperature rise consistent with the recommendations of Dr. James Hanson (Columbia University and NASA). In particular, the paper will explain how core and policy beliefs enter the political process, making compromise all but impossible within specific policy subsystems and in the absence of external physical perturbations of a severe enough nature to change both minds and behavior.

Moderator:

Angel McCoy, *McCoy Environmental Group, Inc.*

Speaker:

John Munro, *University of Maryland, University College*

11:30 am – 1:00 pm

Lunch and NEPA Case Law and Policy Update

Room: Empire Ballroom (Lobby Level)

Moderator:

Fred Wagner, *Beveridge & Diamond*

Speakers:

Pam Hudson, *Office of General Counsel, Department of the Navy*

Michael Smith, *ENERCON*

Ted Boling, *President's Council on Environmental Quality*

1:30 am – 3:00 pm

Session #22: Visual Resources – Scenery Management of National Trails

Room: Watertower

America's National Historic Trails have scenic, heritage, recreation, and archaeological value far beyond the boundaries of their trail traces, and their associated view shed resources are challenging to deal with using conventional resource management tools. A series of new National Landscape Conservation System manuals issued by the Bureau of Land Management (BLM) elevates protection of National Trail settings as well as the trail traces themselves through the establishment of a National Trail Management Corridor. National Trail Management Corridors are established after careful consideration of inventories of the resources, qualities, values, and associated settings, and the primary use or uses of a National Trail. This session will explore the scenic and landscape element, one of the four landscape elements of a BLM National Trail inventory. It will discuss visitor experiences, incompatible uses, and the implications for safeguarding the nature and purposes of National Trails in National Trail corridor planning and resource protection.

Moderator:

Robert Sullivan, *Argonne National Laboratory*

Speakers:

Jeremy Call, *Logan Simpson*

Noelle Glines-Bovio, *Bureau of Land Management*

Session #23: NEPA – Cohen Summit – Invest in Streamlining

Room: Adams

While there is much talk and Congressional support for “streamlining” NEPA, there are few analyses with details regarding what investments may be required that would be more than a one-dimensional “do it faster.” Discussion throughout the Cohen NEPA Summit cited the inefficiencies and delays that are basically caused by a lack of funding. Inadequate funding currently causes some delays when there is too few staff and when the staff involved does not have sufficient training to manage the NEPA process efficiently. Some work on this subject has been done by separate agencies, such as the FHWA for their “Every Day Counts” initiative. Further, an investment in monitoring and adaptive management may reduce the amount of time required to complete an analysis. It could also bring maturity to environmental impact analysis. There is almost always pressure to get a document done at the cheapest price point. This really is often a stranded investment because all the predictions about long-range impacts are fraught with potential errors and all the mitigation that is promised is not delivered, and the mitigation that is delivered is not monitored to ensure its effectiveness. This panel will discuss examples of how the agencies have developed guidance that has substantially improved their NEPA process. The panel will solicit ideas from conference attendees on how to improve this aspect of NEPA practice.

Moderator:

Michael Smith, *ENERCON*

Speakers:

Al Ferlo, *Perkins Coie*

Shannon Stewart, *ESA*

Fred Wagner, *Beveridge & Diamond*

Session #24: Ecosystems – Partnering for Success in Restoration

Room: Hancock

Successful establishment of natural areas can take immense amounts of time, labor, and ecological know-how. Utilizing partnerships in environmental restoration projects extends the project’s benefits to the surrounding community and ultimately the ecosystem as a whole, as many restoration projects become a focus of the nearby communities, especially from a recreational and open space perspective. From small municipality restoration projects to those that encompass several thousand acres, nearly every project’s goal is a minimal cost, long-term management approach of a restored site. In this presentation, examples of successful public-private partnerships’ in ecosystem restoration will be discussed, including small restoration projects relying on volunteer-based platforms, suburban ecosystem restoration and mitigation on publicly-owned property, and large restoration projects encompassing several thousand acres.

Moderator:

James Gregory, *HDR*

Speakers:

Samantha Melton, *ENCAP, Inc.*

Thomas Slowinski, *V3 Companies*

David Stites, *Taylor Engineering, Inc.*

Session #25: Sustainability – Sustainable Transportation Solutions

Room: Spire

Envision, Context Sensitive Solutions, I-LAST Sustainability Rating System, Complete Streets, INVEST: Which sustainability tool should you use for your next infrastructure project? In this session we will hear from environmental professionals who have implemented these sustainability tools and will share their success stories. We will hear about the sustainable tools used in constructing a multi-modal facility in Bloomington-Normal, Illinois. This facility is known as one of the most energy efficient public buildings in downstate Illinois. Next, we will hear from the Illinois Tollway who are committed to making sustainability a part of everything they do. They incorporated the FHWA's INVEST program into all their Tollway planning, design, construction operations and maintenance. They have become a national leader. Finally, this session includes a presentation of how ENVISION can guide your next transportation project to success. Using ENVISION has shown to increase public support and industry recognition.

Moderator:

Renee Kuruc, *IAEP*

Speakers:

Richard Ray, *Huff and Huff*

Janice Reid, *HDR*

Bryan Smith, *AECOM*

Janet Gonzalez, *HDR*

Rick Cornelius, *ECATS*

3:00 pm – 3:30 pm

BREAK

Room: Monroe (6th Floor)

3:30 pm – 5:00 pm

Session #26: Visual Resources - New Energy Landscape

Room: Watertower

Facing both a critical need to address climate change and an ever-increasing worldwide demand for energy, many countries are rapidly developing renewable energy and associated energy transmission infrastructure. However, the unique properties of renewable energy and transmission facilities can create substantial visual impacts on both scenic and historic/cultural resources. The cumulative impact of the rapid expansion of renewable energy is nothing less than a transformation of the visual character of many American and European landscapes. A group of visual resource professionals have co-authored a new book addressing renewable energy's impacts on the visual landscape. *The Renewable Energy Landscape: Preserving Scenic Values in our Sustainable Future* is a guide to understanding, assessing, avoiding, and minimizing aesthetic impacts from utility scale wind, solar, geothermal, and related energy development. In this panel discussion, several of the authors will discuss the transition to the new energy landscape, and present other key themes of the book.

Moderator:

John McCarty, *Bureau of Land Management*

Speakers:

James Palmer, *Scenic Quality Consultants*

Rick Smardon, *State University of New York*

Robert Sullivan, *Argonne National Laboratory*

Session #27: NEPA – Cohen Summit – Developing a 21st Century Impact Assessment Structure

Room: Adams

One of the most challenging ideas discussed at the Cohen NEPA Summit was a total reimagining of NEPA as a fully iterative process for the 21st century. However, the summit workgroups largely focused on applying adaptive management as a technique to expedite the process, acting in the face of uncertainty, incorporating monitoring, and ensuring mitigation is executed. This one change could fundamentally alter the existing practices so that the methods improve and data are not lost. Because NEPA practice is the product of 40 years of case law, it may be difficult to change the practice without rethinking the NEPA regulations. But, in order to reinvigorate NEPA for the 21st century, some participants believed that certain steps must be taken now without contradicting existing case law. Provocative ideas from the summit that this panel will discuss include: expand the use of adaptive management to act in the face of uncertainty; introduce sanctions and required remedies for mitigation failure; engage the public in monitoring; conduct more aggressive public and analytical scoping; provide rearranged and more readable web-based documents; and combine the Final EIS and Record of Decision. The panel will solicit response from conference attendees on these ideas and look for other suggestions to improve future NEPA practice.

Moderator:

Ray Clark, *RiverCrossing Strategies*

Speakers:

Rick Cornelius, *ECATS*
Ron Deverman, *HNTB*
David Mattern, *Parametrix*

Session #28: Cultural Resources – Chicago El-Train

Room: Hancock

In this session, Chicago Transit Authority and the NEPA team will present how to approach a massive survey task on a project; How to be proactive and inclusive on the consultation and public outreach; and how to preserve historic structures and blend in historic architectural design into modern station houses. It was a fast-track project with a proactive and positive Section 106 Consultation and public outreach process for FTA and Chicago Transit Authority on a transit rail project in the heart of Chicago. It was the first Core Capacity FTA funded project – Red Purple Modernization project with rebuilding 100+ year old historic tracks and four stations, with a new bypass-overpass on existing transit lines. The process included working with historic resource groups in defining mitigation of moving a 100+year old apartment building (Vautravers Building) linked to the Newport Historic District, and the rebuilding the stations in prairie style architecture.

Moderator:

Michael Booth, *Jacobs*

Speakers:

Steven Hands, *Chicago Transit Authority*
Marlise Fratinardo, *Chicago Transit Authority*
Jennifer Palmer – *CDM Smith*

Session #29: Sustainability – Industrial Ecology and Today's Environmental Professional

Room: Spire

Environmental professionals are challenged by the interconnection of ecosystems, we have terrestrial, and aquatic and then we have ecosystems living within ecosystems. By definition, an ecosystem is a community of living organisms that has a symbiotic relationship with nonliving components in their environment and they are controlled by internal and external factors. So while we are classifying which ecosystem thrives and why, have you ever thought about yourself as being an ecosystem? Man has created his own ecosystem due to industry, and how this man-made ecosystem interrelates with natural ecosystems is the field of industrial ecology. In this panel, several Chicago-based industrial ecology scholars will explore how industrial ecology can inform professional environmental practices by improving our understanding of society's impacts on the environment and transition toward sustainability.

Moderator:

Renee Kuruc, *IAEP*

Speakers:

Dr. Weslynne Ashton, *Illinois Institute of Technology – Stuart School of Business*
Dr. Ning Ai, *Armour College of Engineering*
Dr. Paul Anderson, *Illinois Institute of Technology*
Dr. Thomas Theis, *Institute for Environmental Science and Policy (IESP) - University of Illinois at Chicago*

Wednesday, April 13th

Chicago Architecture

Walking Tour

3:30 pm – 5:15 pm

(Meet in the Lobby)

6:00 pm – 10:00 pm

Dine-Around Chicago (Cost on your own)

Meet in the Lobby next to Hotel Registration

Thursday, April 14th

8:00 am – 9:30 am

Full Breakfast, Membership Meeting, Service Awards

Room: Empire Ballroom (Lobby Level)

9:30 am – 9:45 am

BREAK

Room: Monroe (6th Floor)

9:45 am – 11:15 am

Session #30: Public Involvement – EPA Environmental Justice Initiatives

Room: Watertower

Environmental Justice (EJ) regards all people of all race, color, national origin and income in respect to the development, implementation and enforcement of environmental laws, regulations and policies. The Environmental Protection Agency has this goal for all communities and persons across this Nation. In this session, EPA Region 5 staff will provide an overview of the EJ initiatives. We will be updated on the EJ 2020 Action Agenda on its programs, policies and agendas. This session will also include a discussion and demonstration on EJ Screening, a new geospatial tool used to gather environmental and demographic information. EJSCREEN is a great source for all NEPA practitioners.

Moderator:

Renee Kuruc, *IAEP*

Speakers:

Mark Messersmith, *USEPA Region 5*

Lara Lasky, *USEPA Region 5*

Session #31: NEPA – NEPA Best Practices

Room: Adams

This session will present examples of best practices in implementation of the National Environmental Policy Act (NEPA). Processes and techniques discussed will include optimizing the use of impact indicators, properly characterizing purpose and need, integrating NEPA analysis more efficiently with other intersecting regulatory requirements, and evaluating environmental risk in the NEPA process.

Moderator:

Yates Opperman, *Opperman Environmental*

Speakers:

Tom Hale, *SWCA Environmental Consultants* "How to Develop Impact Indicators that Make Sense"

Owen Schmidt, *Owen L Schmidt, LLC* "NEPA: Proving the Need for Action"

Steven Ott, *WSP Parsons Brinckerhoff* "Synchronizing NEPA and Environmental Reviews in the Midwest"

Jenifer Nordstrom and John S. Irving, *Battelle Energy Alliance, Idaho National Laboratory* "Evaluating Environmental Risk as a Practical Step in the NEPA Process within the Context of an Environmental Management System"

Session #32: NEPA – Mitigation & Post Environmental Review

Room: Hancock

Federal Railroad Administration (FRA) funded or approved projects, programs, and policies are subject to environmental analysis under the National Environmental Policy Act (NEPA) and to the requirements of other Federal, state and local environmental laws, regulations, executive orders, permits, and approvals. As a result of the NEPA process and these other requirements, the FRA, grantees, and applicants for FRA approvals make commitments related to mitigation of environmental impacts and environmental protection and sustainability. Full compliance with these commitments is critical to achieving anticipated environmental benefits and mitigating the impacts as specified in the NEPA process and thus forming a basis for agencies decisions. Therefore, if environmental commitments are not fully met, the decisions and actions of FRA and other agencies, and compliance with the intent of NEPA, may be significantly compromised. FRA is in the process of developing Environmental Commitment Compliance Guidance to ensure environmental commitments of FRA funded and/or approved projects are met, that the environmental impacts are mitigated as envisioned in the NEPA documents, and that anticipated environmental benefits are achieved. This presentation will describe final design and construction phase issues and tools being used to track, monitor and report on post-NEPA environmental compliance under traditional design/bid/build and alternative delivery conditions. This panel will also clarify applicable requirements, share existing guidance, provide examples of recently applied methods, and demonstrate the characteristics and effectiveness of various mitigation and post-environmental tools for practitioners. The I-225 Rail Design Build project under construction by the Denver Regional Transportation Agency (RTD) in Aurora and Denver Colorado and emerging policy and practices implemented by the Colorado Department of Transportation (CDOT) will be featured and compared.

Moderator:

James Maughan, *U.S. DOT Volpe Center*

Speakers:

James Maughan, *U.S. DOT Volpe Center*

Michael Johnson, *Federal Railroad Administration*

Brian Kennedy, *AECOM*

Session #33: Remediation – Strategies: Domestic & Abroad

Room: Spire

This session will focus on innovative technologies as they relate to environmental remediation both domestically and internationally. We, as technical professionals, need to figure out and focus on more innovative and less invasive ways to assess and remediate subsurface contamination including petroleum-based and chlorinated-based compounds. We also need to share in-situ technologies, both mechanical and

chemical, not only domestically but internationally and especially with emerging countries where these worldwide problems exist. This session will provide cases studies that demonstrate how these innovative technologies have been applied domestically as well as being shared with partnering technical professionals in emerging countries. In addition, they will focus on more sustainable practices such as “greener” assessment/remedial technologies that are effective in cleaning up the subsurface concurrently with protecting the environment. Incorporating these practices, in turn, reduces greenhouse gas emissions while utilizing less energy and resources.

Moderator:

Bill Johnston, *Linebach Funkhouser, Inc.*

Speakers:

Shane Cuplin, *Huff & Huff, Inc. (GZA)*

John Fagiolo, *USEPA Region 5*

Linda Yang, *Terracon Consultants, Inc.*

Michael Butler, *Stantec Consulting Services, Inc.*

11:45 am – Noon

Hot Topic Lunches (HTLs)

Pick up your lunch

Room: Monroe (go to the HTL of your choice)

Noon – 1:15 pm

(Optional) Networking – Lunch

Rooms: Watertown and Hancock

HTL #1: NEPA - Cohen – Summit Summary & Next Steps

Room: Adams

Following the Cohen NEPA Summit panel discussions on Wednesday, this Hot Topic Lunch will have follow-up presentations by the chair of each panel. The chairs will summarize the main points discussed by their panels with a focus on next steps and discussion with conference participants. The lunch will provide for further discussion and refinement of specific next steps.

Moderator:

David Mattern, *Parametrix*

Speakers:

Ray Clark, *RiverCrossing Strategies*

Dinah Bear, *CEQ (Retired)*
Michael Smith, *ENERCON*

HTL #2: Sustainability – GSA Regional Sustainability Plan

Room: Spire

The US General Services Administration (GSA) manages 354 million square feet of federal space within 9,600 federally owned or leased buildings. It plays a significant role in helping the US government reduce its environmental footprint. Here in Chicago, GSA's Region 5 Administrator, Ann Kalayil, has been instrumental in the GSA Great Lakes Region Strategic Sustainability Plan 2025. This action is the agency's roadmap to "green" our federal buildings, workplaces, transportation, and supply chain. This presentation will illustrate how GSA relies on technology to reduce energy consumption, increase waste diversion reduce water consumption, and reduce our overall carbon footprint. This is sure to be an interesting, informative lunch.

Featured Speaker:

Ann Kalayil, *GSA Regional 5 Administrator*

1:15 pm – 1:45 pm

BREAK

Room: Monroe (6th Floor)

1:45 pm – 3:15 pm

Session #34: Energy – National & Regional Issues

Room: Watertower

This panel will address changes happening to the energy generation and distribution systems in various portions of the U.S. Much of the transformation is being driven by national, state, and local demands to reduce carbon emissions, but other factors are also involved in changing the status quo. As an example of how these changes affect utilities, the Tennessee Valley Authority (TVA) will describe its recently developed Integrated Resource Plan. TVA operates a large electric generation and transmission system serving primarily municipal and coop systems in Tennessee and parts of six adjacent states. TVA's Integrated Resource Plan will guide its future decisions about energy resources. Major drivers in the plan development included low natural gas prices, low forecast demand growth compared to historical trends, high stakeholder interest in both utility-scale and distributed renewable generation and in energy efficiency, pending regulation of carbon dioxide emissions, and TVA's legislated mandate to employ a least-cost system planning process. The presentation will describe current and future challenges in implementing the plan. Another presentation will address the challenges of implementing solar projects in the southwest, where extensive environmental mitigation requirements are restricting implementation. Argonne National Laboratory's Environmental Science Division will describe its efforts in assisting the Bureau of Land Management in developing the regional compensatory mitigation strategies for solar energy zones. This presentation will summarize the work done to date for solar energy

zones in Arizona, Colorado, and New Mexico, with a focus on the use of regional data to assess residual impacts warranting mitigation and potential mitigation actions and locations, the identification of regional goals, and the development of appropriate compensatory mitigation obligations. Regional compensatory mitigation strategies have been prepared for eight of nineteen solar energy zones on public lands. These projects make good case studies on an evolving methodology that may eventually be referenced by permitting agencies for utility-scale solar projects on private as well as public lands.

Moderator:

Richard Burke, *TRC*

Speakers:

Heidi Hartmann, *Argonne National Laboratory*

Charles Nicholson, *TVA*

Session #35: NEPA – Oil & Gas Risk Assessment

Room: Adams

This session will discuss challenges inherent in impact assessment for oil and gas projects, including utilization of risk assessment frameworks for analysis. Techniques and case studies discussed include incorporating new offshore regulations for drilling in Alaska into the NEPA process, programmatic approaches and analysis of drilling for large geographic areas, and risk assessment and key impact issues associated with well drilling and hydraulic fracturing.

Moderator:

John McCreight, *ENERCON*

Speakers:

Katrina Timm, *HDR* “Proposed Regulations to Ensure Safe and Responsible Exploratory Drilling Offshore Alaska: A New Paradigm for Arctic Development”

Bill Gorham, *AECOM* “How to Write Six Comprehensive Environmental Impact Assessments Concurrently in 15 Months

Brent Miyazaki, *AECOM* “Assessing Potential Environmental Impacts Associated with Hydraulic Fracturing – Separating Fact From Fiction”

Session #36: Remediation – Resources, Waste & Labor Sustainability

Room: Hancock

This session will focus on sustainability and how it relates to conserving resources, waste management and labor resources. We, as technical professionals, need to develop a mindset which focuses our attention on sustainability relative to protecting our environment. We need to utilize emerging technologies in applications such as the mining industry as well as in waste reduction and management. This session will provide cases studies that demonstrate innovative technologies and how they have been applied both domestically and abroad within developing countries. The sustainability (i.e. protection) of the vitally important labor resource will also be discussed during this session and how it specifically relates to the waste management employment sector, overall environmental sustainability and climate change.

Moderator:

Bill Johnston, *Linebach Funkhouser, Inc.*

Speakers:

Marc Bruner, *Solid Waste Authority of Palm Beach County*

Nicholas Albergo, *GHD/HSA Engineers & Scientists*

Bill Johnston, *Linebach Funkhouser, Inc.*

Session #37: Cultural Resources – Cultural Resources Case Studies

Room: Spire

This session brings together presentations on how the EPA is managing archaeological resources and historic properties at a large Superfund site in Idaho, how FEMA and the NPS are addressing historic resources in the wake of Hurricane Sandy, and how a more holistic approach to cultural landscapes applied to a study of Chicago's South Side can broaden environmental specialists' view of the neighborhoods within their projects often take place. First, Alex Stevenson describes the recent process by which the Environmental Protection Agency (EPA) collaboratively developed a historic properties management plan (HPMP) using an approach that streamlined cultural resource review following typical accepted archaeological modeling techniques and overlaying previous cultural resource studies on a set of anticipated projects and associated activities (e.g., excavation). The HPMP was implemented in early 2015 and has already reduced project costs from those anticipated prior to its implementation, while still providing an avenue for ethically defensible and appropriate preservation of cultural resources. Next, Julia Mates discusses how the National Park Service has distributed funding in New Jersey, New York, Connecticut, and Rhode Island under the Disaster Relief Appropriations Act of 2013 to help preserve historic resources that were damaged by Hurricane Sandy. Finally, Konnie Wescott and Ron Deverman explores how recent resource management studies in the West have shown great promise by moving away from individual cultural resources locations to a broader, more holistic regional landscape approach, which spurs greater archaeological and cultural connectivity. This presentation pairs the cultural landscape findings of ecoregional assessments with the exploration of a neighborhood's deep culture on the south side of Chicago and other inner cities.

Moderator:

Heather Miller, *Historical Research Associates*

Speakers:

Alex Stevenson, *Historical Research Associates*

Julia Mates, *Tetra Tech*

Konnie Wescott, *Argonne National Laboratory*

Ron Deverman, *HNTB*

3:15 pm – 3:30 pm

BREAK

Room: Monroe (6th Floor)

3:30 pm – 5:00 pm

Session #38: Energy – Future Proofing

Room: Watertower

Local governments across the United States are being urged by community members to prioritize sustainable growth through local jobs, improved quality of life, and clean energy. At the same time, cities and counties must address real risks to their communities, particularly climate hazards and resource scarcities. Climate and clean energy planning has the potential to address these needs simultaneously. Administrators must be deliberate about how these plans are developed and applied to ensure community buy-in and prioritization of implementable strategies for change. The future proofing approach to climate and clean energy planning for local governments is one founded in technically-sound baseline analysis. This process is typically initiated with an inventory of energy use, water consumption, emissions, community health, economic activities, and forecasts based on specific growth scenarios. Complementary to that baseline analysis is comprehensive stakeholder engagement and policy review to document community priorities, constraints/obstacles, incentives, needs, and best management practices. It can also include an economic analysis of climate risks, energy consumption and source scenarios, and water supply scenarios. For communities particularly focused on climate hazards, a deep analysis and ranking of current climate related risks is included. Once the baseline analysis is completed, we work in partnership with local governments to establish a range of goals focused on GHG/air pollutant emissions reduction, community health index improvements, water conservation, energy efficiency/conservation, sustainability, and climate risk reduction. Experts from the consulting firm, Atkins, will demonstrate an approach to future proofing through clean energy and climate action planning and will provide important lessons learned through planning work with two regional government associations: the South Bay Cities Council of Governments (SBCCOG) and the San Bernardino Associated Governments (SANBAG). For SBCCOG, Atkins developed climate and clean energy plans for the 15 cities and sub-region. For SANBAG, Atkins developed climate action plan implementation tools for the 21 participating cities.

Moderator:

Michael Hendrix, *Atkins*

Speakers:

Sarah Favrot, *Atkins Global*

Tabitha Kevari, *City of Redlands*

Josh Lee, *San Bernardino County Associated Governments (SANBAG)*

Session #39: NEPA – Tools & Techniques

Room: Adams

This session will discuss a variety of leading-edge tools and techniques used in NEPA analysis, including techniques for improving the project management process, use of the concept of context to improve analysis and reporting, innovative ways to choose spatial boundaries for impact analysis, and new techniques to make the NEPA public comment and response process run smoother and more effectively.

Moderator:

Tom Hale, *SWCA Environmental Consultants*

Speakers:

Yates Opperman, *Opperman Environmental* “Context Based NEPA Evaluation”

Benjamin Gaddis, *Gaddis Consulting* “Spatial Boundaries for Analysis in NEPA Documents: Considerations and Tips”

Susan Wilmot, *SWCA Environmental Consultants* “Making Comment Analysis Work for You”

Session #40: Great Lakes / WR – Marine Protection / Stormwater Management

Room: Hancock

This session will focus on the conservation efforts made by companies throughout the Great Lakes as they work with various regulatory agencies. From biologic to morphologic controls, presenters will discuss their experiences with projects, and share their advice on collaborating with local, state, and federally-run organizations. Our presenters will cover topics that include the remediation of invasive species throughout the Great Lakes, and how technological advances have aided scientists with eradicating various invasive species. Audience members will also learn the proper steps to successfully complete stream bank restoration. Lastly, we'll look address new standards regulate watershed management within the Chicagoland area.

Moderator:

Jonathan Welker, *Vector Engineers, Inc.*

Speakers:

Kevin Irons, *Illinois Department of Natural Resources*

Kevin Strychar, *Annis Water Resources Institute*

Jedd Anderson, *Christopher B. Burke Engineering, Ltd.*

Daniel Feltes, *MWRDGC*

Session #41: Cultural Resources – Cultural Landscape Documentation

Room: Spire

As the recognition of historic landscapes has expanded nationally, landscape inventories and assessments are being initiated by federal land management agencies, state and local governments, and private, not-for-profit organizations to document the qualities and attributes that make these properties significant and worthy of preservation. Defined as settings that human beings have created in the natural world, the documentation of cultural landscapes often involves collaboration between professionals in the fields of history, architectural history, landscape architecture, and archaeology. In this presentation, panelists from Logan Simpson Inc., AECOM, and the Church of Jesus Christ of Latter-Day Saints will share their experiences completing historic landscape documentation of three significant western landscapes. The presentation will offer a basic overview of initiatives developed by the National Park Service (Park Service) for the completion of Cultural Landscape Inventories (CLIs) and Cultural Landscape Reports (CLRs) within the national park system and will identify Park Service processes for inventorying character-defining features of cultural landscapes; conducting research on the historical development and use of landscapes; assessing historical significance; and preparing treatment and management recommendations to enhance and interpret these often vast and multifarious properties. Additionally, as assessment of project effects to cultural landscapes has become increasingly necessary for federally funded projects, the session will conclude with a discussion of some of the difficulties

inherent in applying the standard National Register criteria for assessing cultural resources significance to cultural landscapes.

Moderator:

Heather Miller, *Historical Research Associates*

Speakers:

Jeremy Call, *Logan Simpson, Inc.*

Adriane Fowler *Truluck, AECOM*

Gary Boatwright, *Church of Jesus Christ of Latter-Day Saints*

8:00 am – 3:00 pm

NAEP Board Meeting
HNTB Office
One South Wacker Drive
Suite 900, Training Room
Chicago, Illinois 60606

In Remembrance to Bill Cohen

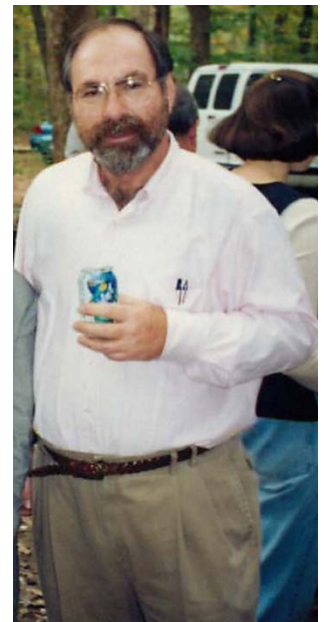
Bill Cohen was a great personal friend of many who worked in the environmental profession. Bill had a long and distinguished legal career in government, academia and private practice. He served as Chief of the General Litigation Section, Environment and Natural Resources Division of the U.S. Department of Justice (DOJ). In that capacity for 14 years, he litigated and conducted Alternative Dispute Resolution in cases involving natural resources, energy, water, environmental justice, and Federal land planning issues. He received numerous awards for his service, including the Natural Resources Council of America's 2000 National Environmental Quality Award.

After retiring from the Department of Justice in 2000, Bill joined the prestigious law firm of Perkins-Coie. He taught environmental and natural resources law at the Washington College of Law, American University, and helped develop the environmental law summer program. Mr. Cohen was a distinguished lecturer on environmental law and litigation at the Nicholas School of the Environment, Duke University. He had, for many years, chaired the Environmental Law Section of the American Law Institute of the American Bar Association.

Bill published articles about NEPA in many journals and books and his "Highlights of NEPA in the Courts" in *Environmental Policy and NEPA* (St Lucie Press, 1997) and his *NEPA and the Judicial System (ALI-ABA)* remain reference points for anyone studying the legal framework for NEPA.

Upon his death in 2010, Perkins Coie, the faculty of the Duke Environmental Leadership Program, and his many friends established a scholarship fund in his name to support the tuition of students seeking to take NEPA courses or pursue a Certificate in NEPA education. This program aided students who wished to attend Duke NEPA classes, but were barred solely because of resources.

This Bill Cohen Memorial fund also funded The Bill Cohen Summit which seeks to examine the long arc of NEPA practice to determine if the practice is matching the promise and hope of the statute. There is no more fitting legacy for Bill Cohen than to ensure that NEPA is working the way the founders intended and he would be the first to call for frequent examinations to ensure it is so and that conflicts over the use of natural resources were amicably and civilly resolved.



Dine-Around Chicago

1. The Berghoff - 17 West Adams, Chicago, IL 60603 - <http://www.theberghoff.com/>

For more than a century, the Berghoff name has been synonymous with superb food, family tradition, and hospitality excellence – and it is an iconic Chicago dining experience. Today the [Berghoff Catering & Restaurant Group](#), is under the helm of fourth generation Carlyn Berghoff, includes the historic [Berghoff Restaurant](#) – one of the nation’s oldest family-run businesses, the [Berghoff Café](#), and [Berghoff Catering](#).

Through the years, The Berghoff expanded into a full-service restaurant rich in German-American cuisine and culture. At today’s Berghoff, diners will find lighter dishes along with treasured old world favorites. And famous Berghoff Root Beer and the annual Oktoberfest are evidence of its deep German roots. Two blocks from Conference Hotel.

2. Cindy’s - 12 South Michigan Avenue Chicago, Illinois 60603 - <http://www.cindysrooftop.com/>

Cindy’s, two blocks from Conference hotel, is located at the top of the Chicago Athletic Association Hotel and offers spectacular views of Michigan Avenue and Millennium Park. They offer an open-air feeling with their glass atrium ceiling. Their food is American and served family style, making Cindy’s a great place to have a few drinks with friends and enjoy Chicago.

3. Athena Greek Restaurant - 212 South Halsted Avenue Chicago, Illinois 60661 - <http://www.athenarestaurantchicago.com/>

About 9 blocks west of the Conference hotels is Greektown, a neighborhood where “Opaa” is heard throughout the evening. Come and enjoy their fine Greek architecture and art, with comfortable seating, warm fireplaces, and outdoor patio with an award-winning view of the Chicago skyline. Order family style or individual entrees of Mousakas, Pastitsio or Gyros. Enjoy your saganaki and soon you will be saying “Opaa”.

4. Italian Village Restaurants - 71 West Monroe Chicago, Illinois 60603 - <http://www.italianvillage-chicago.com/>

Experience Chicago’s Oldest Italian Restaurant with new or old friends. Chicago natives have been visiting this restaurant since 1927 and it offers three restaurants in one! You can choose from classic Italian, high quality meat and seafood venue or an adventurous menu. Whichever restaurant you choose, you will not be disappointed. If you enjoy wine with your dinner, they offer a 35,000 bottle selection, sure to please any palette. Two blocks from Conference hotel.

5. Tavern at the Park - 130 East Randolph Street, Chicago, IL 60601 - <https://tavernatthepark.com/>

Tavern at the Park offers acclaimed New American cuisine in an upscale decor across from beautiful Millennium Park. Tavern at the Park is directly across Millennium Park, offering an amazing view of the downtown Chicago paired with great food and drinks. Have an after dinner drink at the Tavern Tree House Atrium which boasts stunning views of Michigan Avenue and the City skyline.

Walking Tours

Chicago Sustainability Walking Tour

(Tuesday, 3:30pm – 5:15pm)

Small Fee Paid by Individual (\$15)

Walking Tour 1 - In 2014, the Chicago Public Buildings Commission was awarded the NAEP Environmental Excellence Award for Environmental Stewardship. The Selection Committee cited Chicago's forward-thinking ideas on sustainable practices. Chicago has the most publicly-owned LEED certified buildings of any city in the country, and the second largest (soon to be first) Bike-Share program. The walking tour will highlight the sustainable features of Millennium Park, a natural and architectural gem on the lakefront; a discussion of Chicago's LEED certified Public Building program, and a stroll along the Chicago River Walk, the City's newest treasure and most creative and interesting way to get around downtown. The "Retrofit Chicago" program and the City's expansive underground pedway system will also be discussed.

Chicago Architecture; Walking Tour/Evolution of the Skyscraper

(Wednesday, 3:30pm – 5:15pm)

Small Fee Paid by Individual (\$18)

Walking Tour 2 - Walking Tour 2 – Chicago is known for building some of the world's first skyscrapers, but how have their designs and technologies changed over time? Explore everything from classic buildings to super-tall highrises to discover how each one is representative of major developments in architectural technology and design from 1872 to the present. See how architects adapted building styles to meet the fashions of their era and used cutting-edge engineering to build taller than ever before. This tour is an enticing overview which introduces you to the bigger stories of Chicago architecture. A great 1½ to 2-hour tour for architecture buffs as well as anyone with a simple interest in the buildings of Chicago.

Note: Both walking tours will begin and end in the Palmer House Hilton lobby

Things to See and Do



Millennium Park

Discover a state-of-the-art collection of architecture, landscape design and art that provide the backdrop for hundreds of free cultural programs including concerts, exhibitions, tours, and family activities. In Millennium Park, you'll find a new kind of town square – a lively, spectacular gathering spot located in the heart of the city and a destination for Chicagoans and visitors alike. **Free Admission Open daily 6am – 11pm**



Art Institute

Voted #1 Museum in the World!

The Art Institute, located at the heart of Chicago, is only one of many attractions the city has to offer. If you're visiting Chicago for business or pleasure, let us help you connect with the museum and the city.

One of Chicago's leading cultural attractions, the Art Institute is committed to making your trip as memorable as possible. We hope you enjoy your visit!

Open daily 10:30-5:00; Thursday until 8:00

Free admission to Illinois residents every Thursday 5-8pm



Navy Pier and the Lakefront



Navy Pier, Inc. (NPI) is a 501(c)(3) not-for-profit corporation established in 2011 to maintain Navy Pier and oversee the redevelopment of one of the most important civic landmarks in the United States and the top-visited leisure destination in the Midwest. Looking ahead to Navy Pier's 100th anniversary in 2016, NPI created The Centennial Vision, a framework for reimagining Navy Pier. Grounded in the noble principles of its founding designers, The Centennial Vision adds a visionary and contemporary lens for the future.

While looking forward to what is relevant for Chicagoans today, NPI leadership is ever conscious of famed architect Daniel Burnham's vision to transform the lakefront into attractive and useful public space for active recreation and social interaction – a source of pride and common ground that fosters a sense of community within the city's diverse population.

NPI's objectives for the future remain consistent with Daniel Burnham's enduring values for the 'People's Pier' to be a place where local residents and visitors from around the world come to experience the natural beauty of the lakefront and Chicago's magnificent skyline. Historic Navy Pier® is the #1 leisure destination in the Midwest, welcoming nearly nine million visitors annually.

Navy Pier has enjoyed a remarkable evolution. Originally designed for shipping and recreational purposes, the facility has evolved into a premiere entertainment center while also offering restaurants and exposition facilities.

April 1, 2016 – May 26, 2016

Sunday – Thursday: 10 am – 8 pm

Friday and Saturday: 10 am – 10 pm

NAVY PIER

600 East Grand Avenue

Chicago, IL 60611

1-312-595-7437

<https://navypier.com>

River Walk



The new Riverwalk links a series of six distinct civic spaces or "rooms", each named for its unique program. Floating gardens, a bridge and fishing piers will aim to create more recreational options for the city's "Second Lakefront," and connect the downtown area. As of early summer 2015, three of the rooms will be finished, the Marina (food vendors and seating to watch watercraft), the Cove (boating and kayak rentals), and the River Theater (amphitheater seating and a link to Upper Wacker Drive). The final three blocks are planned to be completed by the end of 2016.

In June 2015, the section of the Riverwalk from State Street to LaSalle Street was officially opened. Resident and visitors alike can walk from LaSalle Street all the way to the lakefront parks and rails.

http://www.cityofchicago.org/city/en/depts/cdot/supp_info/chicago_riverwalk.html/

Mag Mile

Chicago's Magnificent Mile is one of the great avenues of the world and is at the center of all that makes Chicago an international destination.

One of the top 10 hospitality, dining and retail destinations in the world, with endless shopping, international cuisine, top rated hotels, lively entertainment, majestic architecture and natural beauty at every turn, The Magnificent Mile offers visitors to Chicago a one-of-a-kind city experience.

The Magnificent Mile is the 13-block stretch of North Michigan Avenue that runs from the banks of the Chicago River to the south, to Oak Street to the north. The Magnificent Mile district extends a full square mile from North Michigan Avenue.

The Magnificent Mile is a spectacular showcase of style, flavor, entertainment and fun. With more than 460 stores, 275 restaurants, 60 hotels and unique entertainments and attractions packed and stacked along its length, The Magnificent Mile has an indulgence for every passion and every pocket.

<http://www.themagnificentmile.com/>

http://www.themagnificentmile.com/wp-content/uploads/2012/07/MMA-Area-Guide-2014_shopping.pdf

http://www.themagnificentmile.com/wp-content/uploads/2012/07/MMA-Area-Guide-2014_culture1.pdf

Broadway In Chicago

Broadway In Chicago was created in July 2000 and over the past 14 years has grown to be one of the largest commercial touring homes in the country. A Nederlander Company, Broadway In Chicago lights up the Chicago Theater District entertaining well over 1.7 million people annually in five theatres. Broadway In Chicago presents a full range of entertainment, including musicals and plays, on the stages of five of the finest theatres in Chicago's Loop, including the Bank of America Theatre, Oriental Theatre, Cadillac Palace Theatre, the Auditorium Theatre of Roosevelt University and just off the Magnificent Mile, the Broadway Playhouse at Water Tower Place.

<http://broadwayinchicago.com/>

Willis Tower and Sky Deck Ledge



233 South Wacker
Drive Chicago, IL
60606

The Willis Tower, built as and still commonly referred to as Sears Tower, is a 110-story, 1,451-foot skyscraper in Chicago, Illinois, United States. At completion in 1973, it surpassed the World Trade Center towers in New York to become the tallest building in the world, a title it held for nearly 25 years. The Willis Tower is the second-tallest building in the United States and the 14th-tallest in the world. More than one million people visit its observation deck each year, making it one of Chicago's most popular tourist destinations. The structure was renamed in 2009 by the Willis Group as part of its lease on a portion of the tower's space.

The Ledge transforms how visitors experience Chicago. At 1,353 feet up, The Ledge's glass boxes extend out 4.3 feet from the skyscraper's Skydeck on the 103rd floor, providing never-before-seen views of the city.

<http://theskydeck.com/>

April through September from 9am-10pm

Last entry 30 minutes prior to closing

Shedd Aquarium



1200 S Lake Shore Drive
Chicago, IL 60605
312-939-2438

<http://www.shedd Aquarium.org/>

Winter (Aug 24 - June 15)

Weekdays: 9 a.m. to 5 p.m.

Weekends: 9 a.m. to 6 p.m.

The Shedd Aquarium combines the best of early 20th-century "age of aquariums" characteristics—a diverse, global animal collection surrounded by eye-popping architecture—with 21st-century advances in animal care, environments and interpretation. Excellence and innovation are Shedd traditions, and they began with the founder.

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Harold Draper, CEP Federal Emergency Management Agency Kansas City, MO h.m.draper@att.net Term Expires 2016	Mark F. Gerber, CEP Whitebark Resource Associates Boise, ID mgerber@whitebarkra.com Term Expires: 2016	Brock Hoegh, CEP HNTB Corporation Atlanta, GA bahoegh@hntb.com Term Expires: 2017	Paul B. Looney, CEP, PWS, CSE Scalar Consulting Group, Inc. Pensacola, FL paul.b.looney@gmail.com Term Expires: 2017
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Elections Harold Draper, CEP Federal Emergency Management Agency h.m.draper@att.net	Energy & Environmental Policy NEPA Group Ron Lamb, CEP ronaldlamb@comcast.net	Membership Leslie Tice, CEP Environmental Resource Management leslie.tice@erm.com	Permanent Conference Jennifer Lundberg jenniferlundberg2@gmail.com

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Above list is as of March 9, 2016

2016 ANNUAL CONFERENCE COMMITTEE

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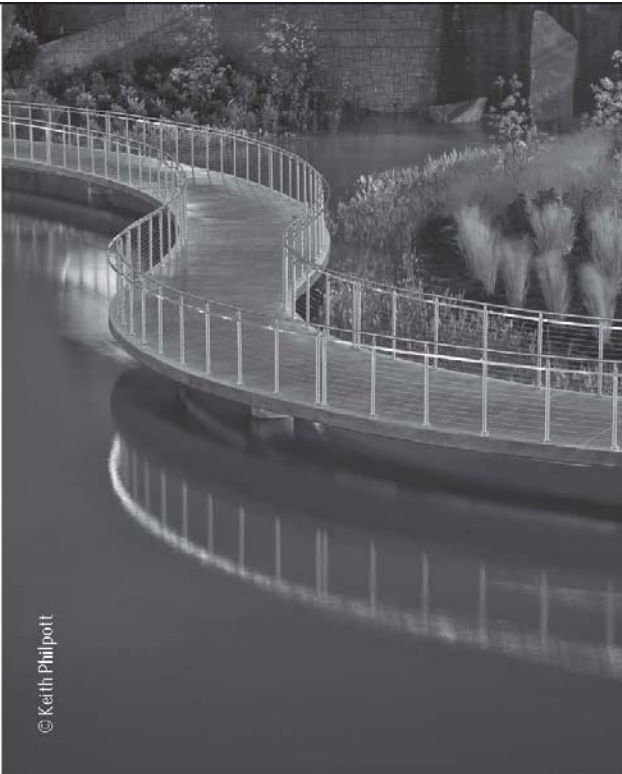
Energy and Climate Change	Richard Burke, TRC
Cultural Resources	Heather Miller, HIG
Ecosystems	Liz Pelloso, USEPA
Water Resources	Jonathan Welker, VE
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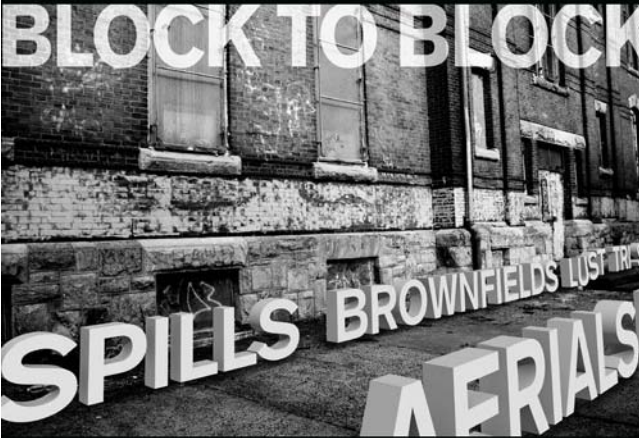
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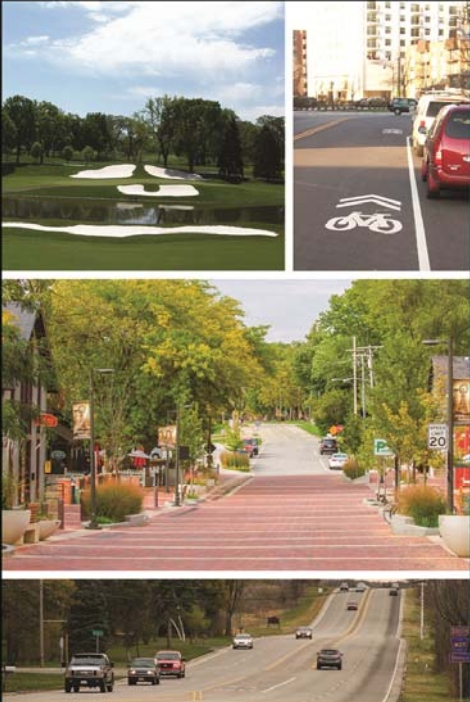


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RIGHT: Chicago Region Environmental and Transportation Efficiency Program (CREATE)

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