

National Association of Environmental Professionals
2018 Annual Conference

Sound Leadership in Environmental Adaptation and Resiliency

MARCH 11-14, 2018 · TACOMA, WASHINGTON



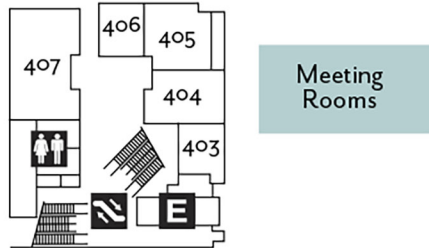
FINAL PROGRAM



**GREATER
TACOMA
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CENTER**

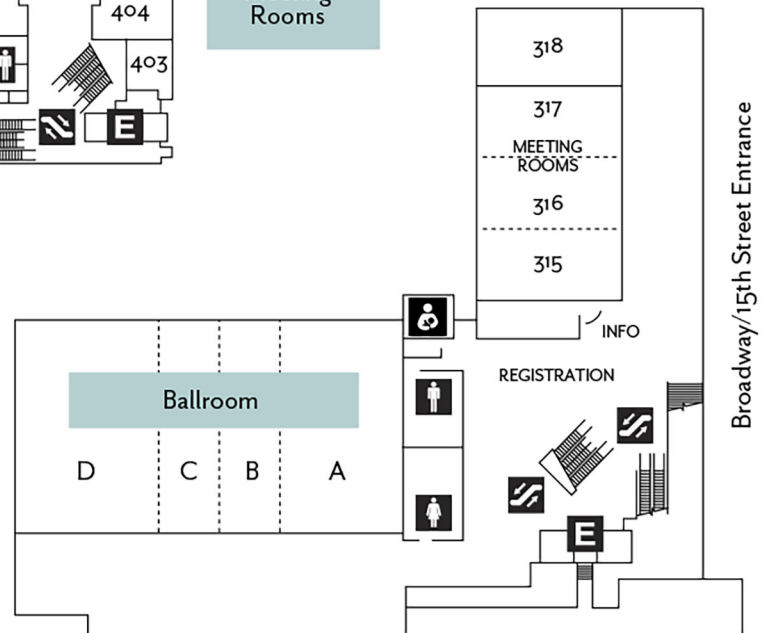
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- Meeting Rooms 403-407



3

- Ballroom
- Meeting Rooms 315-318
- Broadway/15th St. Entrance
- Nursing Mother's Room



RESTROOM ATM ELEVATOR ESCALATOR



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City of Tacoma

Mayor Victoria R. Woodards

February 14, 2018

Greetings!

On behalf of the City of Tacoma, I am delighted to welcome members and attendees to the City of Tacoma and the Annual Conference of the National Association of Environmental Professionals.

For over forty years, the NAEP has been the leader in serving the environment and advocating for sustainable ways of life. Your commitment to developing the highest standards of ethics and proficiency in the environmental professions has led to a myriad of environmental laws, executive orders, and regulations being developed for many new environmental oriented professional specialties. Your work will help to safeguard the needs and interest of present and future generations.

While you are here I hope you will have an opportunity to visit some of our world-class museums – including the Museum of Glass, and the Tacoma Art Museum, or explore our rich downtown district and some of the city's many historic landmarks.

Best wishes for a memorable and enriching conference!

Sincerely,

Victoria R. Woodards
Mayor

Welcome Letter from the NAEP President

On behalf of the National Association of Environmental Professionals (NAEP), welcome to the 43rd Annual Conference: *Sound Leadership in Environmental Adaptation and Resiliency*. The Northwest Association of Environmental Professionals is hosting the conference in Tacoma, Washington. Tacoma is readily accessible from the Seattle-Tacoma International Airport and provides access to natural and cultural resources.

Tacoma is located on Puget Sound, midway between Olympic National Park and Mount Rainier National Park, so if possible, make time to enjoy one of these national treasures as part of your visit. Tacoma is also a port town and features a variety of waterfront habitat restoration, stormwater, and cleanup projects that provide attractions for environmental professionals like you. The area also provides a plethora of opportunities for foodies, including local wineries and breweries.

All sessions will be held at the Tacoma Convention Center with floor-to-ceiling glass walls on the western and northern exposures. The nearby Museum of Glass celebrates world-renowned glass artist Dale Chihuly who was born in Tacoma.

The Northwest Chapter and the conference planning team led by Northwest Chapter President, Josh Jensen, and Illinois Chapter President, Caroline Levenda, have planned an amazing conference with four concurrent tracks including NEPA, an entire day dedicated to Executive Order 13807, air quality; climate adaptation and resiliency; biological resources, wetlands and habitat restoration; cultural resources, water and storm water quality and planning; energy; environmental, justice; hazardous materials remediation; public involvement, and transportation. Make the most of your conference experience by participating in workshops, panel sessions, field trips, and networking events.

Sunday Workshops and Training

Some of the most experienced NAEP members have stepped forward to run diverse training workshops on Sunday March 11, 2018. There will be a full-day Advanced NEPA Workshop which will expand the participant's knowledge of advanced topics in the area of National Environmental Policy Act (NEPA) practice.

Also offered on Sunday will be an excursion to Seattle's Elliott Bay Seawall Replacement Project which will include presentations on the science, permitting, and construction of the habitat features and a walking tour to view key parts of the newly replaced seawall.

Completing the day on Sunday, the Emerging Professionals Career Skills and Motivational Workshop will be held from 3:00 PM - 4:30 PM followed by a networking reception at the convention center.

Special Note Concerning NEPA Sessions

On Monday, our annual NEPA concurrent sessions for NEPA practitioners start 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.

President's Dinner

On Monday evening the ballroom and foyer at the convention center will be transformed into a lively venue for the President's Dinner. The evening will include live music and a dinner highlighting Pacific Northwest cuisine and beverages. This is a good time for taking a break from the intense conference experience to meet and socialize with environmental professionals from across the nation.

Professional Education Tracks

On Monday, Tuesday, and Wednesday, the convention center will be filled with participants attending the educational sessions of their choice. The Conference Committee has planned 53 sessions this year, including premier speakers in their professions providing essential updates on new developments.

However, if you are here primarily for NEPA, this year will be a particularly unique and exciting year, as NAEP will be featuring a special set of sessions related to Executive Order 13807, Establishing Discipline and Accountability in the Environmental Review and Permitting Process for Infrastructure Projects, executed by the President and published in the Federal Register on August 24, 2017. These sessions will focus on disseminating recommendations generated by the NAEP NEPA Practice Group and a white paper in preparation for submittal to the Council on Environmental Quality.

Keynote Speakers at NAEP General Sessions and Luncheons

MONDAY, March 12 – Morning Keynote

Leonard Forsman, Tribal Chairman of the Suquamish Tribe

Lynda Mapes, Environmental Reporter, Seattle Times

MONDAY, March 12 – NEPA Update Luncheon - Ted Boling

Edward (Ted) Boling, Associate Director for NEPA, Council on Environmental Quality

TUESDAY, March 13 – Networking Lunch

Gloria Flora, Founder and Director, Sustainable Obtainable Solutions

Tours

MONDAY, March 12 – 1:15 PM – 5:00 PM

Link Light Rail Walking Tour

TUESDAY, March 13 – 1:15 PM – 5:00 PM

Port of Tacoma Boat Tour

TUESDAY, March 13 – 6:00 PM – 10:00 PM

Dine Around Tacoma and Historic Brewery Tour

WEDNESDAY, March 14 – 10:00 AM – 11:30 AM

Thea Foss Waterway Superfund Site Walking Tour

WEDNESDAY, March 14 – 11:45 AM – 1:15 PM

Film Screening: Return of the River

Special Thanks to our Sponsors and Exhibitors

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

Thanks to the Volunteers

The conference planning effort has been led by Caroline Levenda, Josh Jensen, and Rona Spelleccy. Many thanks to the Northwest Chapter, the track chairs, and the entire 2018 Conference Committee for their tireless efforts to make this conference successful. Because of the help of the Northwest Chapter, NAEP has an exceptional professional educational event this year. Please take some time to express your gratitude to the planners who worked hard for a year-and-a-half before we arrived. 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.

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 NAEP 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 thank you for attending.



Marie Campbell
NAEP President



Josh Jensen
2018 Conference Co-Chair



Caroline Levenda
2018 Conference Co-Chair

NAEP 2018 Annual Conference, Tacoma WA!

Tacoma is home to over 200,000 of the nearly four million people living in the greater Seattle-Tacoma metropolitan area. The city is situated in the Puget Sound lowlands between the Cascade and Olympic Mountain ranges, allowing those who live, work, and visit to enjoy sweeping views of the mountains and the inland marine waters of Puget Sound.

The city, whose name originates from the Native American name for Mt. Rainier (Takhoma or Tahoma), was founded in 1865 and later incorporated in 1884, five years before Washington attained statehood. Tacoma is known locally as “The City of Destiny” because the city was selected in the late nineteenth century as the western terminus for the Northern Pacific transcontinental railroad. The decision of the railroad was influenced by Tacoma’s neighboring deep-water harbor, Commencement Bay.

Commencement Bay serves the Port of Tacoma, a center of international trade on the Pacific Coast and a long-time economic driver for Tacoma and the surrounding region. Other local forces that have also helped to shape the growth and development of the city in recent years include five decades of community-wide redevelopment and revitalization initiatives, cleanup and redevelopment of the Thea Foss Waterway and Asarco Smelter Superfund sites, the establishment and continued growth of the University of Washington-Tacoma campus, and the presence of Joint Base Lewis-McChord U.S. military installation just south of the city.

GENERAL INFORMATION

The NAEP registration desk will be located at the semi-circular registration area immediately as you enter the third floor level from the street. If you use the escalator from the first floor of the Tacoma Convention Center, the registration desk will be directly ahead of you, slightly off to the left.

HOTEL INFORMATION

The Hotel Murano is located a block away from the Tacoma Convention Center and steps away from the city’s best museums and restaurants. Tacoma is known as the epicenter of the American glass art movement, and honoring that heritage, the Hotel Murano pairs luxurious guestrooms and event space with a museum-worthy collection of glass art from around the globe.

The hotel offers delicious cuisine at Bite (4th floor) which serves breakfast, lunch, and dinner. Craft cocktails and small plates are the highlight at the Lobby Bar. Hotel Murano guests will receive complimentary wireless internet connections in guest rooms, access to the hotel’s 24-hour on-site fitness center, and a 10% discount on services offered at the SAVI Day Spa (on site).

The Hotel Murano is a 100% non-smoking facility. Check-in time is 3:00 PM and check-out time is 11:00 AM.

HOTEL ADDRESS AND PHONE NUMBER

Hotel Murano

1320 Broadway Plaza

Tacoma, WA, 98402

Main telephone number: 253-238-8000

REGISTRATION HOURS

Sunday, March 11 7:00 A.M. – 7:00 P.M.	Tuesday, March 13 7:00 A.M. – 5:00 P.M.
Monday, March 12 7:00 A.M. – 6:00 P.M.	Wednesday, March 14 7:00 A.M. – 3:00 P.M.

EXHIBITOR INFORMATION

Exhibits and poster boards will be located in Ballroom A/B. Exhibitors should pick up their conference materials at registration.

Exhibitor Set-Up	Exhibitor Tear-Down
Sunday, March 11 12:00 P.M. – 4:00 P.M.	Wednesday, March 14 2:00 P.M. – 5:00 P.M.

No dismantling of displays or packing of product is authorized before 2:00 PM on Wednesday. The exhibit hall must be cleared no later than 5:00 PM.

EXHIBIT HALL HOURS

SUNDAY, March 11 5:00 P.M. – 7:00 P.M. (Opening of hall and Welcome Networking Reception)	TUESDAY, March 13 7:00 A.M. – 5:00 P.M. (Continental and mid-morning and mid- afternoon breaks)
MONDAY, March 12 7:00 A.M. – 5:00 P.M. (Continental breakfast and mid-morning and mid- afternoon breaks)	WEDNESDAY, March 14 9:00 A.M. – 1:45 P.M. (Morning and early afternoon breaks)

Please note that continental breakfast will NOT be served on Wednesday. Instead, there will be a buffet breakfast during the business meeting which is scheduled at 8:00 A.M. Coffee service only will be offered in the exhibit hall from 9:30 A.M. to 10:00 A.M. Box lunch pick-up will be in the hall starting at 11:30 A.M. You will then proceed to your selected concurrent meeting room.

NAEP POSTERS

Highlighted Poster Viewing Sessions:

Tuesday, March 13	Mid-morning break (9:30 A.M.– 10:00 P.M.)
Tuesday, March 13	Afternoon break (2:45 P.M. – 3:15 P.M.)

A poster in the poster session is based on a submitted and approved abstract. The size of a poster cannot exceed 45” wide by 45” tall. Posters will be located in the NAEP Exhibit Hall, Ballroom A/B.

Sessions will be held on Tuesday, March 13 during scheduled refreshment breaks. NAEP asks that poster presenters stand by their boards during those two time frames and be available for discussion.

Posters will be available for viewing throughout the conference when the exhibit hall is open, but posters will be staffed only at the times listed above.

INSTRUCTIONS TO POSTER PRESENTERS

Posters should be placed on the assigned display boards between the hours of 12:00 P.M. to 4:00 P.M. on SUNDAY, March 11 or between 7:00 A.M. – 12:00 P.M. on MONDAY, March 12. They should be removed by 2:00 P.M. and no later than 4:00 P.M. on Wednesday, March 14. All posters not removed by 4:00 P.M. on Wednesday will be discarded.

Before posting, your last name will be placed on the board to indicate your location. The track title, abstract title, name of presenter, and affiliation of all poster presenters will be highlighted in the final program and on the NAEP 2018 conference app.

Please note that you will be sharing a four-foot-by-eight-foot poster board.

CREDITS AVAILABLE

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

SPEAKER, PANEL MEMBER, EXHIBITOR, AND SPONSOR REGISTRATION

All registrants, speakers, panel members, moderators, exhibitor/ sponsor representatives and award winners should pick up name badges at the NAEP registration desk during registration hours. PLEASE WEAR YOUR NAME BADGE AT ALL TIMES WHILE IN THE TACOMA CONVENTION CENTER.

ELECTRONIC DEVICES

Please turn off or silence all cell phone, pagers and PDAs during all sessions and luncheons.

INTERNET ACCESS

Complimentary wireless access in the meeting space area is available. No password is required. Access GTCC-Public, and click accept to accept the terms and conditions.

QUIET SPACE

If you need a quiet room in which to work or have a quiet meeting, Room 403 on the fourth floor will be available for your use. It will be set with a round table. All groups should check with the registration desk for availability if you plan to have more than a short casual meeting.

PHOTOGRAPHY CONSENT

Your registration and attendance at this event indicates your consent to be filmed and to the use of your image, without payment of any kind, for use in program(s) and for other promotional/editorial activities of the National Association of Environmental Professionals for future use in any and all media, now known or hereafter created.

THANK YOU
TO OUR GENEROUS NAEP 2018 CONFERENCE SPONSORS!

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EXHIBITORS



TABLE TOP DISPLAYS



Historical
Information
Gatherers



OPENING AND WELCOME Monday, March 12, 2018

Leonard Forsman
Tribal Chairman of the Suquamish Tribe

The Northwest Chapter of NAEP is excited to announce that the 2018 Annual Conference will commence with a keynote address by Leonard Forsman, Tribal Chairman of the Suquamish Tribe. Leonard has served as Tribal Chairman of the Suquamish Tribe since 2005. His interests include cultural preservation, sustainable economic development and habitat protection. He has served on Tribal Council for a total of 27 years, worked as a professional archaeologist and is the former director of the Suquamish Museum.

Leonard is a graduate of the University of Washington (B.A. Anthropology) and Goucher College (M.A. Historic Preservation). He grew up in Suquamish on the Port Madison Indian Reservation and continues to live there with his wife Jana Rice. Leonard regularly participates in cultural activities including Suquamish Song & Dance and the annual Tribal Canoe Journey.

Leonard serves on the boards of the Kitsap Regional Coordinating Council, the Washington State Historical Society, the Seattle Waterfront Steering Committee, Suquamish Tribal Cultural Cooperative, the Suquamish Museum, the Suquamish Foundation, the Washington Indian Gaming Association, the West Central Local Integrating Organization, and the Tribal Leaders Congress on Education.

President Barack Obama appointed Chairman Forsman to the Advisory Council on Historic Preservation in 2013 and 2016 where he currently serves as Vice-Chairman. The Northwest Chapter is thrilled to have Leonard join them in welcoming NAEP to Tacoma in 2018.



OPENING AND WELCOME Monday, March 12, 2018

Lynda Mapes
Environmental Reporter, Seattle Times

Lynda Mapes is an environmental reporter at the Seattle Times and an associate at the Harvard Forest. Over the course of her career, she has won numerous national and regional awards, including a 2012 award from the American Association for the Advancement of Science, the world's largest professional science association. She has written three previous books, including *Elwha, a River Reborn* about the largest dam removal project ever in history and the effort to restore a wilderness watershed in Washington's Olympic National Park, and its once legendary salmon runs.

In 2013-14 Lynda was awarded a nine-month Knight fellowship in Science Journalism at MIT. In 2015-16 she was a Bullard Fellow at the Harvard Forest, exploring the human and natural history of a single, 100-year old oak for her book, *Witness Tree*, to explain what a single tree tells us about climate change. Released by Bloomsbury Publishing in April, *Witness Tree* was a New York Times spring and fall book pick for 2017 and earned a coveted starred Kirkus Review.



NEPA UPDATE LUNCHEON, KEYNOTE SPEAKER

Monday, March 12, 2018

Ted Boling

***Associate Director for National Environmental Policy Act,
Council on Environmental Quality***

Edward (Ted) Boling is the Associate Director for National Environmental Policy Act at the U.S. Council on Environmental Quality (CEQ), a position he assumed in January of 2016 upon his return to CEQ after five years at the U.S. Department of the Interior. He served as Deputy Solicitor for Parks and Wildlife at the DOI, where he supervised the work of the Solicitor's Office in support of programs of the National Park Service and the U.S. Fish and Wildlife Service. Mr. Boling joined the department in August 2010 as Counselor to the Assistant Secretary for Land and Minerals Management where he focused on land management planning and renewable energy development, and was Deputy Solicitor for Land Resources from April of 2011 to July of 2013. Before DOI, he served ten years at CEQ as Deputy General Counsel beginning in August of 2000, General Counsel beginning in January of 2008, and Senior Counsel from September of 2009.

Mr. Boling went to CEQ from the Environment and Natural Resources Division of the U.S. Department of Justice, where he was a senior trial attorney. He joined the Department of Justice in 1990 through the Attorney General's Honor Program. At the Department of Justice he was a trial attorney in three sections of the Division: Law and Policy, Wildlife and Marine Resources, and Natural Resources. He also served as a Special Assistant U.S. Attorney in the criminal prosecution program of the Eastern District of Virginia. His trial and appellate litigation experience concentrated on cases involving NEPA, Endangered Species Act, Clean Water Act, and Federal land management statutes. Mr. Boling also worked for a year at the DOI as Counselor to the Assistant Secretary for Fish and Wildlife and Parks.

He is a member of the bar of the U.S. Supreme Court, the U.S. Court of Appeals for the Sixth, Ninth and Tenth Circuits, and the Virginia State Bar. He has served on the Board of the Virginia State Bar Association's Environmental Law Section which he chaired in 2000-01.



LUNCHEON ADDRESS, KEYNOTE SPEAKER

Tuesday, March 13, 2018

Gloria Flora

Founder and Director, Sustainable Obtainable Solutions (SOS)

Gloria Flora founded and directs Sustainable Obtainable Solutions (SOS), an organization dedicated to the sustainability of public lands and of the plant, animal and human communities who depend on them. SOS focuses on large landscape conservation strategies, climate change action, forest restoration through collaboration, and agroforestry systems to complement natural capital across ecosystems. As a project of SOS, she founded and directed the U.S. Biochar Initiative (USBI) for seven years, promoting the sustainable production and use of biochar.

Ms. Flora served 23 years in the U.S. Forest Service (USFS) as Forest Supervisor on two national forests, including the largest in the continental U.S. She was a leader in establishing the human dimension as a component of the USFS ecosystem management system.

While Senior Project Manager at the Center for Climate Strategies, Ms. Flora co-led multi-stakeholder-driven climate change action plans (mitigation and adaptation) at the direction of the governments of Alaska, Maryland and six northern Mexico states. She also served as the Forestry, Agriculture and Waste climate change mitigation and adaptation expert on eight other state and regional climate change action plans.

Ms. Flora has won many awards for leadership and environmental stewardship, including having a new species of toad named after her. She is the Forestry Fellow at Post Carbon Institute and Senior Fellow at the Center for Natural Resources and Environmental Policy at the University of Montana.

PRESIDENT'S DINNER

MONDAY, MARCH 12, 2018

The President's Dinner has always been an evening highlight for NAEP registrants and guests. The 2018 dinner will be held on Monday, March 12 at the Tacoma Convention Center. The ballroom and adjacent foyer area will be transformed into a lively venue with music in addition to food and beverage featuring Pacific Northwest cuisine and beverages.

Join your professional colleagues, friends, and newcomers at this special event. Admittance is provided with your full conference registration fee. Additional tickets for spouses or guests may be purchased if you desire. NAEP looks forward to welcoming you to this important part of the 2018 program.



APA/AICP CERTIFICATION MAINTENANCE

As in past years, NAEP will be applying for and anticipates receiving approval from APA for the conference for CM credits. (Monday through Wednesday). Many APA members use the conference to fulfill their CM requirements.

CALL FOR MEMBERS FOR THE NAEP PERMANENT CONFERENCE COMMITTEE

The NAEP Permanent Conference Committee (PCC) is looking for engaged environmental professionals to join our team! The PCC is committed to ensuring the continued successful planning, implementation, and conduct of NAEP's Annual Conferences well into the future.

The PCC is responsible for planning the location for future conferences, making recommendations to ensure NAEP's Annual Conference maintains its high professional standards and integrity, and interfacing with the NAEP Board of Directors to promote their engagement in the conference planning process.

If you are interested in planning of future Annual Conference locations and activities, please contact Rona Spelleccacy, Permanent Conference Committee Chair, at ronalee.spelleccacy@hdrinc.com.

In addition, PCC members and interested parties are invited to meet in the Hotel Murano lobby bar at 5:00 pm on Tuesday, March 13, following the last conference session that day. We look forward to hearing from you!

NAEP 2018 CONFERENCE TECHNICAL PROGRAM TRACKS

MONDAY, MARCH 12 THROUGH WEDNESDAY, MARCH 14

TRACK DESCRIPTIONS

CULTURAL RESOURCES

Track Chairs: Alexander Stevenson, Historical Research Associates, Inc., (HRA), and Heather Lee Miller, HRA

The field of cultural resources encompasses a diverse arrays of topics and intersects with many of the more traditionally environmental disciplines often in unexpected ways. The occasionally unexpected nature of cultural resources and the prescriptive regulations associated with the discipline can be a stumbling block for planning and compliance. However, cultural resources, particularly those with a view of history can provide unique insight into solutions to modern problems, a frame of reference for longer term planning efforts, and create a sense of community. This year's presentations and panels come from a wide variety of subdisciplines and cover everything from the effects of climate change to weed on cultural resources, as well as innovative compliance and mitigation approaches. We will again have a panel discussion with a variety of private and public practitioners presenting a broad range of perspectives from federal, state, and local entities.

Six unique sessions and two posters make up this year's Cultural Resources track. Monday morning, the track begins with three presentations on climate change from the purview of the National Park Service, a traditional village in Alaska, and resilient adaptations using traditional ecological knowledge. The conversation on climate change continues in the next presentation, which looks at three case studies from Hawaii that illuminate some approaches to historic preservation focusing on climate change. Our third session shifts focus to a panel of professionals who will speak and answer questions about the ambiguous and sometimes frustrating nature of cultural resources regulations and regulatory implementation. Panelists will discuss pain points and solutions to some sticky local projects that speak to broader, national concerns regarding cultural resources in the environmental regulatory context. Tuesday brings three cultural resource sessions that present innovative approaches to compliance. First is a panel presentation on a recent compliance effort in Washington State that encountered some unexpected and challenging circumstances during construction. Second is a panel discussion on an innovative approach to a programmatic agreement during preparation of an EIS. Our last session on Tuesday includes three considerations of the necessary flexibility around cultural resources during planning and innovative approaches to compliance. Additionally, we have the pleasure of including two cultural resource posters in the cultural resources track this year. One highlights remediation and adaptive use in historic building preservation. The second includes cultural resource compliance in Colorado's budding marijuana industry.

ECOLOGICAL RESTORATION

Track Chair: Ward Marotti, WK Dickson

Ecological Restoration has evolved considerably over the past 20 years. As more restoration projects are designed and constructed, our knowledge of how to determine the most appropriate site/project-specific goals, the most effective methods to achieve them, and how best to fund them has also grown. This track focuses on: local success stories that have resulted in dam removal and restoration of anadromous fish passage, new models that leverage private capital for large-scale projects, holistic design approaches that integrate watershed-scale implementation to achieve functional uplift, restoration analyses to offset 404 permit violations, successful stakeholder/regulator/proponent communication frameworks, and grant funding effectiveness. Join us to see how ecological restoration has evolved, what challenges remain, and where it is headed.

ENDANGERED SPECIES

Track Chair: Monte Alves, ERM

The Endangered Species session features four oral presentations that share different challenges around protection of declining populations and threatened/endangered species as well as restoration planning and strategies. You will learn about white-nose syndrome (WNS) in bats and how that is spreading and affecting their fragile populations in Washington State and elsewhere. A second presenter will review the varied approaches

using NEPA as a planning tool in developing fish and wildlife conservation and management plans and compare agency-specific approaches. The third topic will cover how multiple state and federal agencies work together to restore three endangered species in the largest reservoir system in North America through an over-arching adaptive management strategy. A poster presentation will discuss recent court rules under the Migratory Bird Treaty Act and the byzantine reasoning underlying legal decisions involving industrial development and killings of migratory birds.

CLIMATE CHANGE, ENERGY AND AIR QUALITY

Track Chair: Makary Hutson, United States Forest Service

Climate Change

Climate change continues to be one of the most essential, dynamic, and challenging issues faced by environmental professionals today. Accordingly, this track has two sessions covering a wide range of different perspectives. During the first session, panel members will consider how NEPA practitioners overcome the perceived uncertainties with climate change, the global scale of the issue, and the potential consequences for large and complex landscapes and ecosystems managed by public agencies. The panel will consider how CEQ guidance can continue to evolve towards a common, streamlined approach to climate change analysis in NEPA to be useful for decision-makers and the public. The second session will consider how to manage flood risks from rising sea levels, including several examples of how communities are preparing (or not) for the anticipated effects climate change and what information communities need to know to be more resilient. Another presentation will take a closer look into potential strategies for integrating financing mechanisms in resiliency planning, considering lessons learned to date from major U.S. ports. The session will consider financial mechanisms to fund coastal resiliency-related investments.

Energy and Air Quality

This track devotes three sessions to a range of topics, including wind turbine noise, renewable energy policy, nuclear power industry, and risk-based NEPA analysis for energy-related actions. The first panel will consider wind turbine noise, which continues to be a contentious issue worldwide. While regulations have been adopted in some areas in the U.S. aimed specifically at controlling the sound from wind farms, most sites rely on generic, existing local and state laws. A large number of countries worldwide have adopted national regulations; however, there are still differences among many neighboring countries. As such, there is currently no consensus on reasonable sound levels, standardized metrics, specific restrictions, or mitigation requirements for wind farms, either in the U.S. or throughout the world.

During the second session, a panel will take an in-depth look into the details of energy policy at a state level. North Carolina is currently ranked second in the country for solar energy generation, and recent legislation includes comprehensive changes in their energy policy statewide. This panel will discuss the stakeholder process and the compromises that resulted in House Bill 589, as well as how the new legislation will be implemented and what impacts it may have on the booming solar industry, other renewable energy producers, and PURPA implementation in other states.

The third session includes three presenters. Over the last decade, the U.S. has seen a dramatic shift in the nuclear industry where, instead of seeing an increase in new nuclear projects, there has been a decline in the industry that has included early retirements of nuclear plants and abandoned licensing and construction projects. Two presentations will look into the current political and economic status of nuclear power in the U.S., as well as the multitude of challenges for decommissioning nuclear reactors. Similarly, risk-based analysis can be a very useful tool to analyze the environmental effects of certain projects under NEPA, where impacts related to accidents and other types of unplanned events are potentially a significant part of the project overall impact footprint. This is true of many types of energy infrastructure projects such as petroleum pipelines, compressed gas pipelines (including natural gas and CO₂), and power plants, as well as energy projects that involve the transport of hazardous materials by truck or rail. Leaks and other accidental releases from these types of projects can also be a significant concern for local communities and therefore are critical to include in NEPA effects analysis.

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 four panel and discussion sessions on Tuesday, March 13 focused on the implementation of Executive Order 13807 on Establishing Discipline and Accountability in the Environmental Review and Permitting Process, as well as broader issues surrounding increasing the efficiency of the NEPA analysis process. Speakers in these

sessions will include representatives from the White House Council on Environmental Quality (CEQ), the Federal Permitting Improvement Steering Council (FPISC), and several federal agencies.

In addition to this special set of sessions, CEQ will present their annual NEPA Policy Update keynote lunch address, and this year's other panel and individual paper sessions in the NEPA track will address a wide array of topics including:

- Annual NEPA Case Law Update
- NEPA Climate Change Analysis
- FONSI Preparation
- NEPA for P3-Funded Infrastructure Projects
- Tips for Better Public Engagement
- NEPA for Controversial Overseas Projects
- NEPA Best Practices for Environmental Justice Analysis
- Tools for Adaptive Management, Integration and Management

PLANNING AND PERMITTING

Track Chair: Shirley Schultz, City of Tacoma

Mitigation, Design, Operations

Avoid, Minimize, and Mitigate: Design and Operations Considerations and Compensating for the Impacts. Speakers will discuss two project-specific mitigations: cannabis operations and compliance with historic and cultural impacts, and seawater intake impact minimization. A third presentation will focus on advance mitigation banking and measuring mitigation.

Remediation

Equitable Community Engagement at Superfund Sites: Superfund cleanup sites and other hazardous sites are frequently located near low-income communities, communities of color, and tribal nations. These underserved communities have higher public health risks as a result of contamination and can experience more adverse impacts during the active phases of a cleanup.

Inclusive, equitable, and proactive community involvement can help address health and safety concerns throughout the cleanup of a Superfund site. EPA develops Community Involvement Plans (CIPs) for Superfund sites to help guide their public outreach. Yet many widespread community involvement methods (i.e. large public meetings, written public comment periods) are not effective in environmental justice communities due to language barriers, exclusive terminology, cultural insensitivity, time restrictions, geographic distance, and other factors.

The panel will discuss public involvement approaches that aim to address the needs and rights of underserved communities and tribal nations.

Planning and Permitting

Laws governing wetlands and aquatic resources continue to evolve at the federal, state, and local level. In this round table representatives from natural resource agencies responsible for regulating wetlands and aquatic resources in the Pacific Northwest will provide perspectives on the current regulatory environment, changes on the horizon, and critical factors to consider when permitting a project with impacts to the resources

PORTS AND HARBORS

Track Chairs: Josh Jensen, Anchor QEA, and Mark Rettmann, Port of Tacoma

Ports and harbors are iconic to the Pacific Northwest and play a key role in global transportation and freight mobility. The Ports and Harbors track highlights local and national airport and seaport operations and some of the key environmental issues that they face. Building resilient airport and seaport operations is paramount to maintaining the key economic functions that ports and harbors serve on a global-scale.

This year the Ports and Harbors track features topics that are locally focused, including a presentation on the Port of Tacoma Upper Clear Creek wetland mitigation project and another covering a day in the life of a Port of Tacoma biologist. Broader topics include environmental pavement cap systems and their application at ports (with a Port of Tacoma case study) and marine oil terminal engineering and maintenance standards (MOTEM) as they relate to environmental protection at marine terminals. This year's featured panel focuses on addressing climate change in capital planning and operations and maintenance efforts, using the Port of Virginia's Vulnerability Assessment and Resiliency Planning Tool as a case study.

PUBLIC INVOLVEMENT

Track Chairs: Laura Thorne, Green Mission Ops and Ray Outlaw, Envirolssues

Public involvement, whether voluntary or required, is always going to improve the value of the project. It may, however, create additional costs and time inputs. The benefits of including purposeful public involvement range from less pushback and more buy-in from stakeholders, citizen support, enhanced interest in the project, and good PR for the working entity.

The challenges in successfully managing public involvement are many. This track seeks to discuss some of those challenges and give ideas for the attendees to bring back to their organization and incorporate into their projects.

More than ever, the public expects to play a role in environmental decisions, making purposeful public participation vital to NEPA and other environmental processes. The implications reach far and wide, encompassing topics like public health, social justice, information sharing, and community engagement. This track will present successes and lessons learned providing attendees with strategies and resources needed to address challenges and identify opportunities.

STORMWATER AND LOW IMPACT DEVELOPMENT

Track Chair: David Mattern, Parametrix

Stream Restoration: Flow and Habitat

Riparian systems are critical parts of our environment and challenging to successfully restore and manage. Further, work in and around waterway is often difficult to permit and often involves multiple regulatory agencies. This session reports on stream restoration efforts from across the country in both wild and urban settings. The case studies begin describing efforts at controlling Tamarisk on the Colorado River in the Grand Canyon to provide habitat for leopard frogs. The next presentation explains how by applying a holistic design approach, Richland County, South Carolina has successfully integrated regenerative stormwater conveyances (RSCs) into a stream and wetland restoration project to provide significant functional uplift to a significantly impaired urban watershed. This is followed by a tale of regulatory complexity in Montana where an emergency response to flooding brought a cease and desist order, and how violations of multiple regulations were resolved with a variety of restoration projects. Finally, from Florida we have a description of an improved model to predict stream bank erosion and stability.

Low Impact Development

This session reports on several current efforts and programs from across the country aimed at reducing various impacts of different types of development. In California the state developed the historical concept of the Group Monitoring program into the current iteration Compliance Groups. The option is similar to Group Monitoring as it retains a mechanism that allows Dischargers of the same industry type to comply with the General Permit through shared resources in a cost saving manner. The next presentation describes retrofitting school campuses with Low Impact Development (LID) features to improve water quality, stormwater management, resiliency, and sustainability. This has the added benefit of educating elementary through high school students and their families. Next, the Washington State Department of Ecology is adapting the EPA's Clean Water Need Survey to find out what investments are needed for water quality infrastructure throughout the state, focusing on small communities. In this session, they will explore how integrating data from multiple sources can help expand their evaluation from the individual project scale to the watershed level. Finally, the session concludes with a discussion of how urban runoff is an ongoing issue that needs constant revisions, policies, and evaluations. It is known as storm drain pollution is the surface runoff of rainwater created by urbanization. Urban runoff has led to flooding and water pollution in urban communities. Urban areas may contain up to 90% hard, impervious surfaces such as rooftops, sidewalks, streets, construction sites and parking lots and pavement where water collects and quickly runs off.

Elwha River Restoration

The Elwha Dam removal project is the largest project of its type in the world. Rising in the Olympic Mountains, the Elwha flows from glaciers to the Strait of Juan de Fuca in only 43 miles. For centuries the river supported large runs of many species of salmon, which in turn fed the surrounding ecosystem and was the mainstay of native peoples. In 1913 the Elwha River was blocked just five miles from its mouth by the first of two dams, neither of which provided fish passage. Over a century later the dams have now been removed and salmon are returning to the Elwha. The dam removal project has been a huge undertaking involving planners, scientists, and engineers from multiple agencies and organizations. Work continues today monitoring how the ecosystem is responding and adapting as the river finds a new balance. This panel presentation and discussion will include scientists and specialists who have been studying the Elwha River throughout the project. Panelists will describe the current state of the river and results of on-going monitoring and restoration efforts. Other topics will include some of the challenges encountered in coordinating among multiple agencies and where outcomes have and have not been as expected. The session will provide time for questions and discussion with conference attendees.

TRANSPORTATION

Track Chair: Kent Hale, Sound Transit

This year's Transportation Track offers diverse and engaging content for environmental professionals. The range of topics illustrate the inherent connections between transportation planning and many of the other tracks at the conference. A panel will discuss the unique challenges and opportunities for managing and conserving endangered species habitat at airports in the Pacific Northwest, while maintaining and expanding airport operations. Panelists will discuss tribal consultation in the Pacific Northwest, using the Mukilteo Multimodal Ferry Terminal project as a case study. Consultation and coordination spanned a wide range of interests including cultural and natural resources and tribal fishing rights protected by federal treaties established in the 1850s. Presenters will describe the integration of transportation corridor design with ecological restoration and climate change resiliency, ranging from a California highway (SR 37) project in the San Francisco Bay area to implementing a new passenger ferry service in Florida's Pensacola Bay. Attendees will hear about the Chicago Region Environmental and Transportation Efficiency (CREATE) Program in the context of tiered NEPA review and streamlining. The program was initiated in 2003 and discussion will focus on how effective the program has been at meeting its goals for better decision-making, with an emphasis on what can be improved moving forward. To get out and about, a walking (and riding) tour of the Tacoma Link light rail system will give attendees the opportunity to see more of historic downtown Tacoma and the surrounding area that will be served by the planned expansion of this important transit investment. The Transportation Track panel discussions and presentations will address important and timely topics affecting our industry.

WATER RESOURCES

Track Chair: Jennifer Miller, DEA

Water touches everything, and in few places is that more true than in the Pacific Northwest. That's why people in the Puget Sound area have so many words for the water that falls from the sky – mist, drizzle, sprinkle, shower, rain, torrential downpour, deluge...just to name a few. Water has shaped our culture and our economy. It has grown the largest temperate rainforest in the world - home to salmon, salamanders, spotted owls, bald eagles, black bears, and mountain lion.

It is, therefore, fitting that so many of this year's presentations and panels are linked to water. We will have the opportunity to participate in discussions with experts on ports and harbors, ocean acidification, river restoration, climate change, wetlands permitting, and the management of stormwater in urban settings.

Specific to water resources in the region, a panel of experts will provide an update on the challenges of managing water in the Klamath Basin. From water shut-offs to massive fish and bird kills, from fishing season closures to foreclosed farms, the Klamath Basin has seen decades of lawsuits and protests. The speakers bring a diversity of perspectives to describe the challenges, the negotiations and the agreements that have defined water conversations in the Klamath Basin. The four panelists will cover the following topics: 1) the water rights that provide the backdrop to the Klamath Basin issues, 2) the multi-stakeholder efforts to develop the settlement agreements and the tools to balance water use, 3) the role that restoration science plays in the Klamath River negotiations and how it paved the way for disparate interests to make difficult decisions, and 4) the future of Klamath River restoration and the largest dam removal effort in the world.

ENVIRONMENTAL EXCELLENCE AWARDS

The National Association of Environmental Professionals (NAEP) will recognize significant achievements in environmental excellence at the 2018 Conference. Through nominations received and reviewed by NAEP, selected recipients will be recognized for their noteworthy accomplishments in Environmental Management, Public Involvement, Environmental Education, and Best Available Environmental Technology.

ENVIRONMENTAL MANAGEMENT

Submitting Entity:

Smithfield Foods

Name of Project:

Facility Process Changes and Upgrades

Summary of Project:

Smithfield Foods is a global meat packing company. Their facility in Denison, Iowa recently changed several processes and upgraded their wastewater treatment plant to improve water quality to the nearby rivers, reduce their environmental footprint, and reduce overall operating costs. Many of the new processes reduced the amount of water the facility was using, reduced chemical use, and reduced electric power usage. For example, more efficient pet food chillers were installed reducing the amount of water being used by 3.9 million gallons per year. This change also reduced the biochemical oxygen demand in the wastewater and fewer chemicals are needed to treat the waste. Another example is the installation of antimicrobial and sediment catch basins in storm drains around their facility to improve the water quality of the Boyer River located in the community.

PUBLIC INVOLVEMENT

Submitting Entity:

HDR and Oregon Department of Transportation

Name of Project:

Outer Powell Transportation Safety Project—Diverse Engagement

Summary of Project:

HDR and the Ohio Department of Transportation (ODOT) embarked on the Outer Powell Transportation Safety Project in 2014 to develop corridor solutions. The widespread community involvement was immediately recognized as key to the ultimate project success. The challenges that HDR and ODOT faced was how to conduct a meaningful public process in an area of the city where the majority of the stakeholders were lower income, new to the community, and where English was not a primary or secondary language.

Additionally, the Environmental Justice considerations for the project were tremendous in scale. In order to overcome the challenges, HDR and ODOT conducted faith-based outreach which included 218 participants representing a wide range of ages and ethnic backgrounds, translated community walks utilizing five different languages, business canvassing that included minority owned or operated businesses, community sponsored events, and translated project materials which provided project factsheets translated into five languages. Through this community engagement, the project garnered a wide community support, which in turn influenced legislators to support the project to leverage funding. The project will benefit the community by building sidewalks, bike lanes and a center turn lane throughout the corridor to improve safety, access and connectivity. It will also make improvements to public transit stops, install crosswalks with rapid flashing beacons and upgrade key intersections.

ENVIRONMENTAL EDUCATION

Submitting Entity:

Marstel-Day LLC / University of Mary Washington

Name of Project:

CLEAR (Climate, Environment, and Readiness) Plan

Summary of Project:

The University of Mary Washington, along with Marstel-Day LLC, the National Academy of Environmental Design, Atlantic Builders, the Virginia Economic Endowment and the PNC Bank Foundation, developed the Fredericksburg regional Climate, Environment and Readiness (CLEAR) Plan initiative that provides the Fredericksburg region with a roadmap for sustainable development and climate change resiliency in the City of Fredericksburg and the counties of Spotsylvania, Stafford, King George and Caroline. The CLEAR Plan encourages energy efficiency and renewable energy initiatives within the Fredericksburg Region.

CLEAR seeks to protect public and private investments by creating a plan that can help adapt to gradual climate changes, including bouncing back from floods and other natural disasters but encouraging investment into green infrastructure.

CLEAR's goals are to bring the various localities and stakeholders within the region together to develop a unified approach for the management and protection of the air and water quality, fields and open spaces, cultural and historical treasures, and the diversity of the land-use patterns that make the region both functional and attractive.

CLEAR encourages and invest in the development of disaster response plans, efforts to diversify the economy with green jobs and programs that will promote a more efficient use of resources at all levels

BEST AVAILABLE ENVIRONMENTAL TECHNOLOGY

Submitting Entity:

Naval Undersea Warfare Center Division, Newport, Maine

Name of Project:

Marine Mammal Monitoring on Navy Ranges

Summary of Project:

The Naval Undersea Warfare Center Division, Newport Marine Mammal Monitoring on Navy Ranges (M3R) Team has leveraged navy expertise in acoustic signal processing and submarine tracking to develop novel approaches to study vocalizing marine mammals in-situ. This team has developed a marine mammal passive acoustic detection, classification, localization, and density estimation (DCLDE) algorithms and systems that are being applied to the study of the effect of mid-frequency active sonar on cetaceans. This technology provides real-time monitoring of Navy undersea hydrophone arrays at multiple facilities. The innovative M3R processor architecture has also been adopted by the ranges for submarine tracking.

The M3R systems monitor vocalizing animals and sonar in real-time to determine the behavioral response of animals to sonar, their abundance over time, and the population level effect of repeated sonar exposure. The results are critical to ongoing environmental compliance requirements. The M3R provides a unique, powerful, and scalable architecture capable of monitoring up to 300 hydrophones with a 50 kHz frequency bandwidth in real-time. It can detect, classify, and localize a broad range of cetaceans. Detection and localization reports allow for data collection over long temporal scales. Currently this data is being used to inform multiple ongoing marine mammal studies. The results of these studies are critical to the development of national marine species management policies.

JIM ROBERTS SCHOLARSHIP RECIPIENT

Julianna Kurpis is the recipient of the National Association of Environmental Professionals' Jim Roberts Scholarship for 2018.

Ms. Karpis is pursuing a Master of Science degree in Agricultural, Environmental and Sustainability Sciences at the University of Texas Rio Grande Valley. Prior to beginning her graduate program, she earned a bachelor's degree with a double major in history and environmental studies with a biology concentration at Trinity University in San Antonio, Texas.

Growing up in New York City, Ms. Kurpis developed an early interest in environmental sustainability and natural area management. After receiving her bachelor's degree, she worked for the Texas A&M Agrilife extension service as a lab technician conducting plant breeding research to assist farmers in the Lower Rio Grande Valley. This experience led her to focus her thesis research on the historical ecology of the Lower Rio Grande Valley and the effects of agricultural, industrial, and residential development on the Valley's landscape and ecosystem services. Her interest in this topic was also influenced through her volunteer work with the non-profit Trailblazer Cambodia Organization and with Local Sprout, a small San Antonio hydroponic gardening company. Ms. Kurpis will receive a \$1,000 scholarship and a one-year student membership in NAEP.

Jim Roberts Scholarship Committee Members for 2018: Chuck Nicholson (chair), Stacy Woodson, and Brock Hoegh.

ZIRZOW STUDENT AWARD

Award Recipient:

Shannon Black

School:

University of Washington – Tacoma

Shannon Black has been selected as this year's Zirzow Student Award recipient. Ms. Black is a student at the University of Washington – Tacoma. She was nominated by Dr. Joyce Dinglasan-Panlilio for her academic achievements and leadership. She will be recognized for this award at the conference luncheon on Tuesday, March 13.

Please introduce yourself to Shannon and congratulate her!

2018 FELLOWS

The National Association of Environmental Professionals (NAEP) is pleased to announce the appointment of two new Fellows in 2018. Both have an extraordinary level of accomplishment in the environmental profession and meet the following requirements for an NAEP Fellow:

1. Made significant and substantial contributions to the growth and development of NAEP
2. Served in leadership positions in the NAEP
3. Demonstrated good judgment and integrity
4. Has achieved an extraordinary level of accomplishment in the environmental profession.



Ron Deverman

The recognition for Ron Deverman is being made in light of his exceptional and exemplary contributions to NAEP, including serving as Illinois Chapter President and Director and serving as NAEP President. His service to NAEP continues in his role as Chair of the Leadership Development Pillar and Committee, where his commitment has inspired environmental professionals to continue to improve their personal and professional skills.

Mr. Deverman 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 is a Certified Environmental Professional (CEP) with 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.



Bruce Hasbrouck

Bruce Hasbrouck's recognition is made in light of his exceptional and exemplary contributions to NAEP, including serving as a founding member of the Tampa Bay Chapter of the Florida AEP; Florida AEP Chapter President and Director; and NAEP President.

With more than 35 years of experience in the environmental profession, Mr. Hasbrouck has influenced the outcome of innumerable projects in Florida.

Bruce is a Certified Environmental Professional (CEP) with expertise in environmental permitting, construction management, permit compliance inspections, NEPA/PD&E assessments and documentation, mitigation and stormwater pond designs, wetland restoration projects, design/build projects, artificial reef design and permitting, wetland mitigation monitoring and maintenance management, seagrass surveys, and photo interpretation of wetlands. His environmental consulting experience includes roadways, bridges, airports, landfills, parks, solid waste transfer stations, gas pipelines, electric utilities, residential and commercial developments, fishing piers, and water projects in the U. S. and Caribbean.

SCHEDULE AT A GLANCE

We will attempt to keep the sessions and speakers in the order in which they are presented in the program. However, some adjustments may be necessary during the conference.

SUNDAY MARCH 11, 2018					
ROOMS	316	315	317	318	407
8:00 – 12:00 P.M.	TRAINING SESSIONS (Additional Cost)				
1:00 – 5:00 P.M.	NEPA: Advanced NEPA Workshop	Elliott Bay Seawall Project Workshop and Site Visit	Emerging Professionals Workshop 3:00 – 4:30		
5:00 – 7:00 P.M.	Networking Reception				
MONDAY, MARCH 12, 2018					
7:00 – 8:00 A.M.	Continental Breakfast				
8:00 – 9:30 A.M.	Opening and Keynote Addresses – Lynda Mapes, Leonard Forsman				
9:30 – 10:00 A.M.	Coffee Break				
TRACKS	NEPA	Energy, Climate, and Air Quality	Transportation, Ports and Harbors, Planning and Permitting, Ecological Restoration	Cultural and Historical Resources, Public Involvement, Endangered Species	
10:00 – 11:30 A.M.	1 – The NEPA Planner	2 – Approach to Climate in NEPA	3 – Sound Leadership	4 – Tribal Knowledge and Tradition	
11:30 A.M.– 1:00 P.M.	NEPA Update Luncheon - Ted Boling				
1:15 – 2:45 P.M.	6 – NEPA Case Law Update	7 – Climate Resiliency	8 – Voluntary Stewardship Program	9 – Cultural Resources in the Pacific	
1:15 – 5:00 P.M.	Link Light Rail Walking Tour				
2:45 – 3:15 P.M.	Coffee Break				
3:15 – 4:45 P.M.	11 – Language Barriers	12 – Environmental Justice	13 – Ports and Harbors	14 – Cultural Resources	15 – Ethics Workshop
6:00 – 10:00 P.M.	President's Dinner				
TUESDAY, MARCH 13, 2018					
7:00 – 8:00 A.M.	Continental Breakfast				
8:00 – 9:30 A.M.	16 - Implementing Executive Order 13807 Part 1	17 – Blown Away!	18 - Ports and Stormwater Management	19 – Oak Harbor and Cultural Resources	20 – Geospatial-Intelligence of the West Relocation
9:30 – 10:00 A.M.	Coffee Break and Poster Session				

SCHEDULE AT A GLANCE

TUESDAY, MARCH 13, 2018 CONTINUED					
ROOMS	316	315	317	318	407
10:00 – 11:30 A.M.	21 - Implementing Executive Order 13807 Part 2	22 - Energy Policy in the South	23 - Mitigation, Design, and Operations	24 - ESA	25 - Remediation
11:30 A.M. – 1:00 P.M.	Luncheon Address -- Gloria Flores, Introduction of NAEP 2018 Fellows, and Zirzow Award				
1:15 – 2:45 P.M.	26 - Streamlining NEPA	27 - Nuclear Energy	28 - Transportation	29 - The Klamath - Water Resources	30 - 404 and Wetlands
1:15 – 5:00 P.M.	Port of Tacoma Facilities Boat Tour				
2:45 – 3:15 P.M.	Coffee Break and Poster Session				
3:15 – 4:45 P.M.	31 - Expediting NEPA	35 - Stream Restoration: Flow and Habitat		34 - Cultural Resources	
5:00 – 5:45 P.M.	Vetting Session with Ted Boling – NEPA Best Practices				
6:00 – 10:00 P.M.	Historic Architecture Tour/Dine Around and Historic Brewery Tour				
WEDNESDAY, MARCH 14, 2018					
8:00 – 9:30 A.M.	Environmental Excellence Awards, Annual Meeting, Breakfast				
9:30 – 10:00 A.M.	Coffee Break				
10:00 – 11:30 A.M.	36 - Lessons Learned	40 - Low Impact Development	38 - Airports and Endangered Species	39 - Public Involvement	
10:00 – 11:30 A.M.	Thea Foss Waterway Superfund Site Walking Tour				
11:30 – 11:45 A.M.	Pick up Box Lunch				
11:45 – 1:15 P.M.	Film Screening: "Return of the River" Grand Ballroom C/D				
11:45 – 1:15 P.M.	41 - NEPA - Tools for Adaptation	42 - NEPA Topics	43 - Transportation and Tribes	44 - Better Public Engagement	45 - Urban Infrastructure
1:15 – 1:45 P.M.	Coffee Break				
1:45 – 3:15 P.M.	46 - Current NEPA Issues	47 - Greening Transportation Infrastructure	48 - Transportation and Streamlining NEPA	49 - Public Engagement and Citizen Science	50 - Elwha River Restoration
3:15 – 3:30 P.M.	Break				
3:30 – 5:00 P.M.	51 - The FONSI	52 - CEP	53 - Wetlands and Aquatic Resources	54 - Environmental Health	

NAEP 2018 CONFERENCE SCHEDULE

NAEP 2018 CONFERENCE WORKSHOPS AND TRAINING

SUNDAY, MARCH 11

This year NAEP is offering one full-day training and two half-day training options.

Full Day Training Session (8:00 A.M. to 4:30 P.M.): For those wishing to take a full-day of training:

- **Advanced NEPA Workshop**

Lunch will be provided.

Half-Day Training Sessions: There are two options from which to choose:

Early Afternoon (12:30 P.M. – 4:30 P.M.):

- **Elliott Bay Seawall Habitat Enhancements Walking Tour**

Late Afternoon (3:00 P.M. – 4:30 P.M.):

- **Emerging Professionals Career Skills and Motivational Workshop**

Note - Half-day sessions do not include lunch.

SUNDAY, MARCH 11

SUNDAY

WORKSHOP 8:00 A.M. – 4:30 P.M.

ADVANCED NEPA WORKSHOP (ALL DAY)

Room 316

This workshop will expand the participant's knowledge of advanced topics in the area of National Environmental Policy Act (NEPA) practice. This intensive workshop will focus on training environmental professionals to more efficiently complete NEPA environmental reviews and improve the interagency coordination process, while sharpening advanced impact analysis skills. Instructors include representatives from the White House Council on Environmental Quality (CEQ), federal agencies, and consulting firms.

SCHEDULE

8:00 A.M. – 8:30 A.M.

INTRODUCTIONS

Michael Smith, ENERCON

8:30 A.M. – 10:30 A.M.

PURPOSE AND NEED PROBLEMS AND ALTERNATIVES ANALYSIS FOR ONE FEDERAL DECISION

Ted Boling, White House Council on Environmental Quality

Michael Drummond, White House Council on Environmental Quality

10:30 A.M. – 10:45 A.M.

BREAK

10:45 A.M. – 12:00 P.M.

PROJECT MANAGEMENT AND NEPA PRE-SCOPING

Ron Lamb, U.S. Marine Corps

Shannon Stewart, Stewart Consulting

12:00 P.M. – 1:00 P.M.

LUNCH

1:00 P.M. – 2:00 P.M.

CUMULATIVE IMPACTS ANALYSIS

Ron Lamb, U.S. Marine Corps

Michael Smith, ENERCON

2:00 P.M. – 3:00 P.M.

PRODUCING BETTER ENVIRONMENTAL DOCUMENTS

David Mattern, Parametrix

3:00 P.M. – 3:15 P.M.

BREAK

3:15 P.M. – 4:00 P.M.

DECISION, MONITORING AND ADAPTIVE MANAGEMENT

Ted Boling, White House Council on Environmental Quality

Michael Drummond, White House Council on Environmental Quality

4:00 P.M. – 4:30 P.M.

QUESTIONS AND WRAP-UP

All Instructors

SUNDAY, MARCH 11

INSTRUCTOR BIOS

Ted Boling, White House Council on Environmental Quality

Edward (Ted) Boling is the Associate Director for National Environmental Policy Act at the U.S. Council on Environmental Quality (CEQ), a position he assumed in January of 2016 upon his return to CEQ after five years at the U.S. Department of the Interior. He served as Deputy Solicitor for Parks and Wildlife at the DOI, where he supervised the work of the Solicitor's Office in support of programs of the National Park Service and the U.S. Fish and Wildlife Service. Mr. Boling joined the department in August 2010 as Counselor to the Assistant Secretary for Land and Minerals Management where he focused on land management planning and renewable energy development, and was Deputy Solicitor for Land Resources from April of 2011 to July of 2013. Before DOI, he served ten years at CEQ as Deputy General Counsel beginning in August of 2000, General Counsel beginning in January of 2008, and Senior Counsel from September of 2009. Mr. Boling went to CEQ from the Environment and Natural Resources Division of the U.S. Department of Justice, where he was a senior trial attorney. He joined the Department of Justice in 1990 through the Attorney General's Honor Program. At the Department of Justice he was a trial attorney in three sections of the Division: Law and Policy, Wildlife and Marine Resources, and Natural Resources. He also served as a Special Assistant U.S. Attorney in the criminal prosecution program of the Eastern District of Virginia. His trial and appellate litigation experience concentrated on cases involving NEPA, Endangered Species Act, Clean Water Act, and Federal land management statutes. Mr. Boling also worked for a year at the DOI as Counselor to the Assistant Secretary for Fish and Wildlife and Parks. He is a member of the bar of the U.S. Supreme Court, the U.S. Court of Appeals for the Sixth, Ninth and Tenth Circuits, and the Virginia State Bar. He has served on the Board of the Virginia State Bar Association's Environmental Law Section which he chaired in 2000-01.

Michael Drummond, White House Council on Environmental Quality

Michael Drummond serves as Deputy Associate Director for the National Environmental Policy Act (NEPA) at the Council on Environmental Quality (CEQ). As a member of CEQ's NEPA group since 2013, Michael helps oversee Federal agency implementation of the environmental impact assessment process, ensuring that Federal agencies meet their obligations under NEPA. In addition to his general NEPA portfolio, Michael played an active role in several interagency efforts to improve the efficiency of the environmental review process including the Unified Federal Review for Disaster Recovery Projects, the Federal Permitting Improvement Council, the Broadband Interagency Working Group, and the Coordinated Environmental Review Process for Tribal Housing.

Ronald E. Lamb, CEP, U.S. Marine Corps

Ronald E. Lamb is the NEPA Specialist for HQMC where he is responsible for NEPA document review and compliance, NEPA program management and policy, and NEPA training. He advises USMC action proponents on NEPA and related environmental planning requirements. In 2016-2017 he was detailed to the CEQ and served as a Deputy Associate Director for NEPA and supported the Administration transition. He has also served as Acting Section for the Marine Corps' Conservation and Planning Section and Acting Director for Environmental Planning and Terrestrial Ecology for the Department of the Navy. Ron was previously a Vice President at the HDR, Inc.E2M and is a past chair of the NAEP NEPA Practice and Board of Directors. Ron holds an M.S. in environmental science from Johns Hopkins University and an M.A. in political science/international economics from the University of Nebraska.

David Mattern, Parametrix

David Mattern has over 33 years of experience and is a senior manager of NEPA EIS and similar projects. His responsibilities include managing environmental impact statement preparation, conducting siting studies, and policy evaluations for public programs and facilities. He is knowledgeable in regulatory procedures and guidance for environmental studies and documentation, including processes for integrating NEPA, ESA, Section 106, Clean Water Act, Environmental Justice, and others. David has a strong record of facilitating inter-agency and community discussions on environmentally sensitive projects. David managed Washington State's first reader-friendly EISs, using innovative graphic design and clear writing to produce an easy-to-understand and engaging document. The document has won four awards for its pioneering approach. His project experience includes siting studies and environmental documentation for highways, airports, landfills and resource management plans. David taught the Duke University Environmental Leadership Program course on preparing and documenting environmental impact analyses. He currently serves on the Board of Directors of the National Association of Environmental Professionals.

SUNDAY, MARCH 11

SUNDAY

Michael D. Smith, PhD, ENERCON

Michael D. Smith is a nationally-recognized leader in National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) compliance with over 25 years' 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 UC 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.

Shannon Stewart, Stewart Consulting, LLC

Shannon Stewart is a recognized leader in the field of NEPA, with over 20 years of professional experience in environmental documentation and public land issues, as well as extensive experience interpreting Federal and state environmental laws, regulations, and policies. She has served as a senior level analyst for both the Department of Energy and the Department of the Interior specializing in controversial and complex projects as well as strategic policy development including multiple landscape-scale planning initiatives such as the Western Solar Program, Wind Energy Develop Program, and Coal Leasing Reform. Ms. Stewart also worked in private consulting as a Principal Technical Associate in Los Angeles, California where she led an Energy Practice and managed NEPA, CEQA, and other permitting requirements for a variety of renewable energy and utility clients. She is currently the owner and principal of Stewart Consulting, LLC., is a small, woman-owned business aimed at bringing strategy, solutions and success to the environmental review process. In addition to a Master's Degree in urban and regional planning, Ms. Stewart holds a Professional Certificate in NEPA from Duke University and serves as a Board Member and Chair of the Education Committee for the National Association of Environmental Professionals.

WORKSHOP 12:30 P.M. – 4:30 P.M.

ELLIOTT BAY SEAWALL HABITAT ENHANCEMENTS WALKING TOUR

The City of Seattle is completing the replacement of the Elliott Bay Seawall along its downtown urban waterfront to protect critical infrastructure and residential/commercial buildings from seismic and coastal storm damages over the next 50 years. An integral part of the seawall replacement was the design and installation of numerous features to enhance the nearshore marine shoreline along the seawall for salmon migration and to improve nearshore productivity and the food web. This workshop includes presentations on the science, permitting, and construction of the habitat features and a walking tour to view key parts of the newly replaced seawall. Topics will include:

- The City's waterfront and infrastructure program
- Understanding urban waterfront ecosystem problems and opportunities
- The science of planning/designing habitat features
- Permitting strategy and successes for overall project
- Construction and monitoring of the habitat features

Attendees: Please be prepared for rain and wind and a one-to-two-mile walk.

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INSTRUCTOR BIOS

Mark Mazzola, Seattle Department of Transportation

Mark Mazzola is the Environmental Manager for the Seattle Department of Transportation. Mark serves as the environmental lead for the City's Elliott Bay Seawall and Waterfront Seattle projects, which together represent over \$1 billion worth of investment in Seattle's central waterfront. He has a BS in biology from the University of Notre Dame and an MS in community and regional planning from the University of Texas.

Merri Martz, PWS, Anchor QEA, LLC

Merri Martz is a senior managing scientist at Anchor QEA, LLC. She was the environmental and habitat lead for the consultant team supporting the Seattle Department of Transportation for the feasibility and design phases of the Elliott Bay Seawall Project. She has a BS in chemistry and biology from Pacific Union College, a MS in chemistry from U.C. Santa Cruz, and a MMA in wetland ecology from the University of Washington. She has been managing and designing habitat restoration and enhancement projects throughout the U.S. since 1994.

Stuart Munsch, PhD, NOAA National Marine Fisheries Service

Stuart Munsch is a fishery biologist with the National Marine Fisheries Service who recently earned his PhD from the University of Washington. His graduate research examined fish ecology along modified shorelines, which influenced the design for Seattle's fish-friendly urban waterfront.

Heather Page, Anchor QEA, LLC

Ms. Page is a principal environmental planner with Anchor QEA managing environmental processes on a variety of complex projects with a focus on infrastructure within or adjacent to aquatic systems. She manages and prepares National and State Environmental Policy Act environmental documentation, ranging from exemptions/exclusions to Environmental Impact Statements. Ms. Page also leads the permitting process from design through construction for design-bid-build and design-build projects, including providing environmental compliance support during construction. As part of the Elliott Bay Seawall Project, she managed environmental studies conducted by Anchor QEA and was responsible for preparing and implementing a permitting approach.

Jennifer Horwitz, Anchor QEA, LLC

Ms. Horwitz is a managing environmental planner with Anchor QEA with a focus on public infrastructure projects. She has over 20 years of experience in community and environmental planning, primarily in the Pacific Northwest. She has been the lead planner on numerous National Environmental Policy Act (NEPA) documents, as well as consultation under the Endangered Species Act and Section 106 of the National Historic Preservation Act. Ms. Horwitz has extensive experience in tribal consultation, with attention to natural resources, cultural resources and treaty fishing. Ms. Horwitz served in the role of environmental compliance manager over the four-year construction period of the Elliott Bay Seawall Project.

WORKSHOP 3:00 P.M. – 4:30 P.M.

EMERGING PROFESSIONALS CAREER SKILLS AND MOTIVATIONAL WORKSHOP

Learn what it takes to land an environmental job that is a good fit for you both from a skill set perspective and from the hiring perspective. This workshop is for anyone seeking an environmental career or who are already working and wants to make a switch. We will also cover the benefits of being a NAEP member throughout your environmental career. As a bonus, stick around afterward to get a smooth introduction to networking as we accompany you to the networking reception.

INSTRUCTOR BIOS

Leslie Tice, HDR

Leslie Tice is a career-long NAEP member currently serving as an elected board member and the Membership Chair. She is a Certified

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Environmental Professional and has about 20 years of experience leading NEPA, CEQA, and other state environmental impact analyses, regulatory processes, and other environmental programs across numerous sectors of our industry. Leslie leads HDR's cross-sector environmental program in Northern California managing a team of about 60 planners, scientists, biologists, cultural practitioners, and managers. This includes technical leadership, staff development, recruiting and team growth, and business development. As such, Leslie plays a daily game of team development and relies heavily on her NAEP and state AEP networks and tools to fulfill her professional objectives. She believes that this method of constant learning and collaboration is what makes us better at what we do, creates opportunities we wouldn't have had otherwise, and it also makes the challenges more fun to figure out.

John Esson, PASE Corps

John is the Director of the Environmental Career Center and Partners Achieving Sustainability Excellence Corps (PASEcorps.org). He also served as president of the ECW Environmental Group. John is an environmental careers leader having established the 14 Environmental Career Center (ECC) in 1980. ECC operates EnvironmentalCareer.com, conducts environmental careers research, provides environmental careers coaching, operates environmental intern programs for employers, published the Green Careers Journal, and conducts environmental career seminars including many sessions at NAEP annual conferences since 1995. John has 30 years of sustainability, ecological and the NEPA experience with federal, state, and local agencies and consulting companies. He has a bachelor's degree in wildlife ecology from the University of Minnesota and graduate studies in wildlife biology at the University of Wisconsin - Stevens Point. He led the NAEP Career Development Committee and Subcommittee for seven years.

Laura Thorne, Laura Thorne Consulting

Laura Thorne, BS, PMP, LSSGB, GEN-X, RVr, has over 25 years of experience working in management and consulting roles in various industries. She started her own management consulting business after working 10 years with a local environmental government agency and full-time RV'ing for three years. As a minimalist and a realist, she has been praised for her ability to break complex issues into manageable bites. She specializes in guiding organizations through a 3-Step Integrated Strategy to Solutions System to re-align their operations and propel them forward! While serving in roles, such as the President of the Tampa Bay Association of Environmental Professionals, Vice President of Hillsborough County Toastmasters, and advisor on the Hillsborough Education Foundation Scholarship Committee, Laura utilizes her Quality Award-winning performance excellence skill set to help others work more effectively to improve results. In 2016, she spearheaded an annual Women in STEM Workshop and group specifically focused on women in environmental careers and has started coaching environmental students on their transition from academia to workforce.

Brock Hoegh, HNTB Corporation

Brock is currently an Associate Vice President and serves as the Southeast Environmental Planning Practice Leader and Operations Manager for the HNTB Atlanta Office. Brock has 19 years of experience in the consulting industry managing delivery of NEPA documents for a wide variety of federal infrastructure expansion projects across the country including highway, rail, bridge, pedestrian trails and transit projects. Brock leads the efforts of professional NEPA staff including ecologists, historians, archaeologists and planners. Brock has been committed to the environmental profession by becoming part of the National and local scene of the profession since 2004. Brock led the initiation of the Indiana Association of Environmental Professionals Chapter in 2005 and was President and NAEP Chapter Representative for Indiana Association of Environmental Professionals from 2006-2010 and moved to Georgia in November 2011. For NAEP, he is currently serving his second term as Immediate Past President. As a NAEP board member, Brock has worked to support NAEP current initiatives as well as work on new initiatives to grow NAEP as an organization in membership, increase the associations image within the industry, and develop forums for continued interaction and education between members and the industry.

5:00 P.M. – 7:00 P.M.

WELCOME AND NETWORKING RECEPTION

Room: BALLROOM A/B

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7:00 A.M. – 8:00 A.M.

CONTINENTAL BREAKFAST

Room: BALLROOM A/B

8:00 A.M. – 9:30 A.M.

OPENING AND KEYNOTE ADDRESSES – LYNDA MAPES, LEONARD FORSMAN

Room: BALLROOM C/D

9:30 A.M. – 10:00 A.M.

COFFEE BREAK

Room: BALLROOM A/B

10:00 A.M. – 11:30 A.M.

CONCURRENT SESSIONS

SESSION #1: LIFE AFTER FONSI: THE ROLE OF THE NEPA PLANNER AFTER THE DECISION DOCUMENT

Room: 316

Often, the NEPA process is treated as complete at the issuance of a decision document. The project then goes into design planning and execution, and oftentimes, it falls to the Project Manager to call the planner back in if there are concerns regarding NEPA compliance. Most NEPA documentation is written with sufficient flexibility to allow for minor changes in the course of project design. The decision document includes mitigation measures that are to be incorporated into the design and the actual project implementation. Rarely, however, does the NEPA lead for the project return to review construction contract specifications to ensure consistency with the identified measures. If mitigation is identified that is not standard in the area, it is possible that the agency personnel who typically review the design and construction documents may overlook an omission or misstep. This is not in the best interest of the agency or of the public.

On a recent project for dam safety, the USACE Project Manager continued working with the NEPA team past the issuance of the Finding of No Significant Impact and into project design and specification development. The project is a priority project for USACE and has demanded all efforts to minimize the schedule while also maintaining excellence in analysis. The results of keeping the lead NEPA authors engaged post-decision has been a more cohesive team dynamic, rapid identification and resolution of potential environmental concerns, and defensible construction contract specifications that are consistent with all conditions of the FONSI. Furthermore, decisionmaking regarding design variations that previously may have fallen to the Project Manager as a matter of function could be shared rapidly with the NEPA authors, allowing for more informed decision making with a robust project record. For example, when engineering specifications resulted in a potentially changed footprint, the lead NEPA author was able to revisit the analysis and offer a substantiated discussion regarding what could be modified without constituting a major change that could otherwise need additional public outreach. The successes identified during this unique engagement have been recognized within the USACE district, and there is substantial interest in continuing this longer-term incorporation of NEPA team members on similarly scaled projects

Moderator: Erica Mignone-Boulanger, Cardno Entrix

Panelists: Erica Mignone-Boulanger, Cardno Entrix
Stacy Gray, USACE

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SESSION #2: TOWARDS A MEANINGFUL APPROACH TO CLIMATE CHANGE ANALYSIS UNDER NEPA

Room: 315

A top challenge facing public land managers today is how to address climate change in a meaningful way when making decisions affecting public lands. The unique difficulty of analyzing climate change under the National Environmental Policy Act (NEPA) arises from perceived uncertainties with climate change, the global scale of the issue, and the potential consequences of climate change for large and complex landscapes and ecosystems managed by public agencies. The Council on Environmental Quality (CEQ) released its initial draft guidance for considering greenhouse gas emissions (GHGs) and the effects of climate change under the National Environmental Policy Act (NEPA) in February 2010, a revised draft guidance in December 2014, and a final version in August 2016. In March 2017, the August 2016 final guidance was rescinded. The lack of clear or appropriate guidance, and the inherent difficulty of this task, may continue to lead to NEPA documents that address climate change superficially and inconsistently; agency treatment of climate change remains quite varied in the absence of binding guidance. The future direction of CEQ on climate change in NEPA remains unclear. Agencies remain motivated to create concise, thorough, accurate, legally defensible Environmental Assessments (EAs) and Environmental Impact Statements (EISs) that properly address climate change impacts in a meaningful way. This panel will discuss how CEQ guidance can continue to evolve towards a common, streamlined approach to climate change analysis in NEPA to be useful for decision-makers and the public. Revised guidance would ideally include clear direction to reduce, including recommending a programmatic approach for large landscapes; an informed scope and scale of analysis; reasonable temporal and spatial parameters; how to usefully apply and interpret GHG emissions; strategies to address adaptive management into mitigation discussions; effective analysis of cumulative effects; and a streamlined approach to where analysis should appear in a document. By approaching the uncertainty inherent in climate change in a systematic and thoughtful way, an agency can prepare itself for whatever outcome ultimately unfolds while meeting its mission.

Moderator: Makary Hutson, USFS

Panelists: Elizabeth Bella, AECOM
Jon Philipsborn, AECOM
Marni Koopman, AECOM

SESSION #3: LEADERSHIP, PARTNERSHIP, AND STEWARDSHIP IN PUGET SOUND AND BEYOND

Room: 317

This session will be a broad exploration of challenges facing the Puget Sound, the Salish Sea, and the world's oceans. Included are presentations related to the Puget Sound Partnership's measurements of ecological protection and ecosystem recovery within the Puget Sound, specifically. Presenters will discuss challenges facing the earth's waters (and Puget Sound in particular) including acoustic impacts of development. Finally, we'll zoom out to a big-picture perspective on moving beyond current discussions of resiliency and restoration to a stewardship approach.

Moderator: James Gregory, HDR, Inc.

Presentations:

Puget Sound Ecosystem Recovery: Mobilizing Cross-Sector Efforts for Collective Impact

Scott Redman, Puget Sound Partnership

Updated Acoustic Guidance from NOAA: What It Means for Your Project

Adam Jenkins, Greenbusch Consulting

Moving Sound Leadership Forward: Adaptation to Natural Distinction; Resiliency to Stewardship

Ron Deverman, HNTB Corporation

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SESSION #4: UNDERSTANDING CLIMATE CHANGE BY APPLICATION OF TEK

Room: 318

These three papers highlight the use of traditional ecological knowledge (TEK) and history to better understand our ever-changing environment. Each of these authors brings a unique perspective on the topic and how it can inform policy and practice in light of impending climate change.

Moderator: **Linda Moon Stumpf**, Evergreen College

Presentations:

The Role of Traditional Ecological Knowledge: Tribal Resilience and Adaptation in the Face of Climate Change

Linda Moon Stumpf, Evergreen College

Impacts of Climate Change on Cultural Resources of Alaska

Libby Provost, Historical Research Associates, Inc.

Using Human Stories to Interpret the Effects of Climate Change on Cultural Resources

Jackie Gonzales, Historical Research Associates, Inc.

11:30 A.M. – 1:00 P.M.

NEPA UPDATE LUNCHEON – KEYNOTE SPEAKER - TED BOLING

Room: BALLROOM C/D

1:15 P.M. - 5:00 P.M.

LINK LIGHT RAIL WALKING TOUR

Location: Off Property – Meet at Registration Desk

Tour description on page 63

Sign up in advance at registration desk.

1:15 P.M. – 2:45 P.M.

CONCURRENT SESSIONS

SESSION #6: RECENT NEPA CASES (2017)

Room: 316

This paper reviews substantive National Environmental Policy Act (NEPA) cases issued by United States Courts of Appeals in 2017. The implications of the decisions and relevance to NEPA practitioners are explained. The paper briefly explains, with an emphasis on the substantive NEPA findings, each opinion issued by the U.S. Court of Appeals circuits. The paper identifies statistics regarding the NEPA appellate opinions, such as ten-year record of NEPA cases, organized by circuit, and by year. The paper also identifies the agencies involved in each case, and presents statistics relevant to the agencies; the paper further identifies the prevailing ratio of federal agencies, including by agency and by document type (categorical exclusion, environmental assessment, environmental impact statement). The paper analyzes the trends in the court opinions involving NEPA for 2017, with an emphasis on substantive NEPA practice, and by grouping of the cases. Finally, each court opinion is paraphrased and organized in a manner easy to read for practitioners to find the court's ruling. Appellate opinions are grouped and analyzed by agency. Past trends include challenges to purpose and need, alternatives considered, public comment, scientific impact assessment methodologies, greenhouse gas

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impact assessment, incomplete or unavailable information, determination of significance, segmentation, duty to supplement, connected actions, federal actions, cumulative impact assessment, mitigation, monitoring and adaptive management.

Moderator: Fred Wagner, Venable LLP

Panelists: Pam Ellen Hudson, Department of the Navy OGC
Michael D. Smith, ENERCON

SESSION #7: CLIMATE RESILIENCY AND ITS FINANCIAL IMPLICATIONS

Room: 315

These three presentations are focused on economic risk and strategies in preparing and adapting coastal cities to impacts of climate change. We first focus on coastal floodplain mapping and new base flood elevations in California and their local efforts to protect valuable real estate such as ports. We will broaden our perspective by shifting to the East Coast where the ports in New York and New Jersey have learned lessons on resiliency planning and how these lessons can provide ideas and strategies for financing mechanisms in resiliency planning. We then move to a different focus in the third presentation where new FAA regulations have shown a marginal increase in emissions globally. Using case studies of recent commercial airline regulations, we look at the potential impact of including climate-related health costs on the net benefit of these rules and examine the tradeoffs in risk between safety and climate change.

Moderator: Makary Hutson, USFS

Presentations:

Keeping Your Assets Above Water: Managing Flood Risk in the Face of Climate Change and Sea Level Rise

John Moynier, Stantec

Financing Climate-Resilient Port Development

Alexis Robert, Hatch

Aircraft Safety vs. Climate Change: Tradeoffs in Risk to Human Health

Isaac Emery, Air Force Institute of Technology

SESSION #8: VOLUNTARY STEWARDSHIP PROGRAM (VSP) IN AGRICULTURE

Room: 317

This panel provides an overview of the Voluntary Stewardship Program, a new, non-regulatory and incentive-based approach to protecting and enhancing Washington State's critical areas while maintaining agricultural viability. The panel features county representative and consultants representing counties from both eastern and western Washington to provide different perspectives on the program. Topics include: the legal framework behind this voluntary program; potential conflicts behind the objectives of the program to protect and enhance critical areas and maintaining agricultural viability; administration and implementation of the program; and, setting meaningful benchmarks for implementation and long-term monitoring.

Moderator: Josh Jensen, Anchor QEA

Panelists: Vivian Erickson and Josh Jensen, Anchor QEA
Sarah Sandstrom and Tess Brandon, The Watershed Company
Charissa Waters, Thurston County
Lisa Grueter, BERK Consulting

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SESSION #9: INTERSECTING HAWAII'S HISTORIC RESOURCES AND ADAPTATION STRATEGIES IN A CHANGING CLIMATE

Room: 318

Historic preservation of cultural and architectural resources is “on the agenda” as part of climate change adaptation planning. However, it is often marginalized and low on the list of priorities. In Hawaii, irreplaceable cultural resources are particularly vulnerable to climate change and in the future, as the conversation about climate change adaptation moves from broad strategy into community-level planning and implementation, policymakers and concerned citizens can take the opportunity to ensure historic preservation is a central point of discussion. This presentation looks at the intersection of climate change and historic preservation in Hawaii, supported by background information on the status of climate change science and policy and some selected historic preservation case studies.

Moderator: Adrian Truluck, AECOM

Panelists: Adrian Truluck, AECOM

Patience Stuart, AECOM

Sara Moore, AECOM

2:45 P.M. – 3:15 P.M.

COFFEE BREAK

3:15 P.M. – 4:45 P.M.

CONCURRENT SESSIONS

SESSION #11: ENVIRONMENTAL LANGUAGE BARRIERS

Room: 316

Environmental professionals come from a variety of disciplines. Scientists, engineers, planners - they all have a common goal when working together on a project. They all, however, may have very different approaches to achieving that goal. Each discipline has its own language. Terminology can be specific to each discipline, each may require different information about the project, and each may have different regulations governing how their work is done. And often, they also have differing ideas about what information is important or relevant to the intended outcome. This language barrier can be difficult to work around.

This presentation will highlight the different perspectives of various environmental professionals. A biologist, an historian, a civil engineer, and a planner will each discuss the vocabulary that is specific to their discipline. Each will briefly describe the regulations that govern their work, as well as, the ethics and standard practices to which they are expected (or required) to adhere.

An example project will then be introduced that includes the involvement of each of the environmental disciplines. Each of the professionals will describe what their role on the project is, at what stages of the project they expect to be involved, what specific information they require to complete their work and why, and what the risks are to the project if that information is incomplete or inaccurate. We will discuss and define the major project milestones and preferred sequence of events. This will be followed by a discussion of the possible ways to convey project information and manage the involvement of team members simultaneously with scope, schedule, and budget. The goal of this panel discussion is to help people better understand why the different environmental professionals do things in a particular way and how we might all work more collaboratively and learn to speak each other's languages. Additionally, the panel with audience interactions will help reveal leadership language cues within the team concept to help lead to a successful product.

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Moderator: Henry Haas, Hunt Environmental Services

Panelists: Michael Booth, HDR, Inc.
Susanne Perry, U.S. Army – Fort Benning/Graham & Associates, Inc.
Sharese Graham, ESA

SESSION #12: ARE WE GIVING ENVIRONMENTAL JUSTICE, JUSTICE? A PANEL EVALUATION OF NEPA BEST PRACTICES IN THE EJ SECTOR

Room: 315

The passing of Executive Order (EO) 12898: Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations in 1994 intended to focus federal attention on the environmental and human health effects of federal actions on minority and low-income populations and an associated memorandum emphasized the role NEPA would play in promoting environmental justice by directing federal agencies to examine environmental effects on low-income and minority populations. Proper impacts analysis starts with solid data but requires keen understanding of the project area, including the unique characteristics of the community. A practical approach to dealing with common environmental justice issues identifies concerns early, streamlines deliverables, and can lead to a more positive outcome for the community and the project. This panel will examine how NEPA has been adapted to analyze environmental justice, review previous analysis methodologies to establish an ideal methodology for determining the proper holistic approach to that analysis, and identify potential pitfalls met in everyday application with a focus on community outreach.

Moderator: Nicolas Frederick, HDR, Inc.

Panelists: Nicolas Frederick, HDR, Inc.
James Gregory, HDR, Inc.
Jennifer Young, Parametrix, Inc.
Kent Hale, Sound Transit

SESSION #13: PORTS AND HARBORS

Room: 317

This session includes several presentations related to Port of Tacoma projects including implementing Port-wide pavement cap systems at the Port of Tacoma, stories from the diary of a Port of Tacoma biologist, and a project review of the Upper Clear Creek Wetland Mitigation and Fish Conservation Bank project. The session also includes a presentation on the Marine Oil Terminal Engineering and Maintenance Standards (MOTEMS) and how they help protect harbor environments.

Moderator: Mark Rettmann, Port of Tacoma

Presentations:

Meeting the Challenges of Environmental Pavement Cap Systems

Warren Hansen, Windward Environmental, **Abby Hawley**, Windward Environmental LLC, and **Sarah Weeks**, Port of Tacoma

The Diary of the Port Biologist

Jenn Stebbings, Port of Tacoma

Upper Clear Creek Wetland Mitigation and Fish Conservation Bank Development

Joe Callaghan, GeoEngineers, and **Shawn Mahugh**, GeoEngineers

What are the Marine Oil Terminal Engineering and Maintenance Standards (MOTEMS)? And How does MOTEMS help Protect our Harbor Environments?
Brent Miyazaki, AECOM

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SESSION #14: PERSPECTIVES ON CULTURAL RESOURCES COMPLIANCE

Room: 318

This panel will offer insight into the sometimes befuddling world of cultural resource regulation and compliance practice. Panel members with national and local perspectives on cultural resource compliance will answer your questions or at least, hopefully, help you work through them.

Moderator: **Alexander Stevenson**, Historical Research Associates, Inc.

Panelists: **Stephenie Kramer**, Willamette CRA

Kevin M. Bartoy, WSDOT Ferries Division

Heather Lee Miller, Historical Research Associates, Inc.

Reuben McKnight, City of Tacoma Historic Preservation Office

SESSION #15: ENVIRONMENTAL ETHICS (A SPECIAL SEMINAR ON THE PERSONAL AND PROFESSIONAL ROLES AND RESPONSIBILITIES OF AN ENVIRONMENTAL PROFESSIONAL)

Room: 407

The objective of the seminar is to develop a thorough, working understanding of the roles and responsibilities of environmental professionals, particularly members of the National Association of Environmental Professionals (NAEP). The seminar will include case studies, based both on the seminar leader's experience and the experience of participants in the seminar. It will also include an evaluation and discussion of the NAEP Code of Ethics and Standards of Practice.

Speaker: **James A. Roberts**, PhD CEP

Bio:

Dr. Roberts has more than 45 years of experience in the application of the earth- and social-sciences to planning, architecture, and engineering. He provides technical direction for environmental assessments and reviews the quality of research work, technical reports, and related efforts on projects including waste management and hazardous materials, energy and water related projects, and National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) matters. Dr. Roberts served as president of the National Association of Environmental Professionals from 1996 to 1998 and is currently Vice President and a member of the Board and a member of its Ethics Committee.

6:00 P.M. – 10:00 P.M.

PRESIDENT'S DINNER

Room: BALLROOM FOYER AND BALLROOM C/D

TUESDAY, MARCH 13

7:00 A.M. – 8:00 A.M.

CONTINENTAL BREAKFAST

Room: BALLROOM A/B

8:00 A.M. – 9:30 A.M.

CONCURRENT SESSIONS

SESSION #16: IMPLEMENTING EXECUTIVE ORDER 13807 PART 1: ESTABLISHING DISCIPLINE AND ACCOUNTABILITY IN THE ENVIRONMENTAL REVIEW AND PERMITTING PROCESS

Room: 316

On August 15, 2017, President Trump issued Executive Order (EO) 13807 for Establishing Discipline and Accountability in the Environmental Review and Permitting Process for Infrastructure (<https://www.whitehouse.gov/the-press-office/2017/08/15/presidential-executive-order-establishing-discipline-and-accountability>). This session will provide an overview of Order. The purpose of this Order is to change the way the federal government processes environmental reviews and authorization decisions for infrastructure projects as a means to transform our economy. The panel will describe actions being undertaken by the Council on Environmental Quality (CEQ) to implement the Order including the White House Council on Environmental Quality's (CEQ) initial list of actions published in the Federal Register on September 14, 2017, as well as the Department of the Interior's Secretarial Order 3355 issued on August 31, 2017 that requires firm page and time limits for Environmental Impact Statements.

Moderator: **Marie Campbell**, President NAEP/President Sapphos Environmental, Inc.

Panelists: **Michael Drummond**, Deputy Associate Director of NEPA, Council on Environmental Quality

Michaela Noble, Director Office of Environmental Policy & Compliance, Department of the Interior

Chuck Nicholson, Chair NEPA Working and Elected At-Large NAEP Board Member/ Former Tennessee Valley Authority NEPA Lead

Jack Allen, Vice-President, National Environmental Planning Director, HNTB

SESSION #17: QUANTIFYING WIND TURBINE ACOUSTICAL PHENOMENA

Room: 315

For renewable energy projects, wind turbine noise continues to be a contentious issue in the development and operation for a number of wind farms. Developers seeking to site a wind energy project rely on rigorous ambient sound measurements and extensive modeling to demonstrate regulatory compliance. Once operational, even with demonstrated project compliance per regulatory rules, wind farms may face heightened scrutiny as nearby community members begin to experience the noise emissions first hand.

This presentation will summarize the current regulations surrounding wind turbine noise. Regulation of wind turbine sound in the United States is done at the state and local governments rather than on a national level. New regulations have been adopted in areas throughout the United States aimed specifically at controlling the sound from wind farms, while many other areas still rely on generic regulations.

In other areas of the world, there are a large number of countries that have adopted national wind farm noise regulations; however, there are still differences among many neighboring countries. As such, there has been no current consensus on the required sound levels, measurement metrics, and other methodologies to be imposed on wind farms, both in the United States and throughout the world.

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Current research topics in the realm of wind turbine acoustics include noise amplitude modulation and health studies relating to very low frequency sound, known as infrasound. Observations from long term noise studies, lasting months to years, at wind sites in the northeastern United States will be presented. The difficult task of quantifying turbine noise apart from background sounds in the surrounding environment will be discussed. Varying sound levels with meteorological conditions and wind farm operational states will also be presented. In addition, the presentation will include general mitigation approaches such as operational curtailment periods and turbine blade modifications. The panel members will address their experience working with abutters to industrial scale wind turbines and what, where and when such installations may become problematic. Finally, there will be discussion on methods to allow the adjacent communities to participate in the process of limiting the impact to the acoustical environment.

Moderator: Ethan Brush, Acentech Incorporated

Panelists: Ethan Brush, Acentech Incorporated

James Barnes, Acentech Incorporated, PE, Fellow INCE

Michael Bahtiarian, Acentech Incorporated, INCE Board Certified

SESSION #18: PORT OF TACOMA GENERAL CENTRAL PENINSULA STORMWATER IMPROVEMENTS PROJECT

Room: 317

The Port of Tacoma operates the 23-hectare (56-acre) Olympic Container Terminal, 5-hectare (12-acre) North Intermodal Yard, and 9-hectare (22-acre) South Intermodal Yard located in Tacoma, Washington. All three facilities are completely paved and subject to extremely heavy operational loads to accommodate loading, unloading, storage, and transfer of shipping containers to and from ship, rail, and trucks. Stormwater discharges from all three facilities are covered under the Washington State Department of Ecology Industrial Stormwater General Permit (ISGP) and each facility was required to install stormwater runoff treatment by the end of 2014, primarily due to zinc concentrations exceeding permit-defined pollutant benchmarks.

Three different proprietary gravity-based treatment solutions were designed to meet each location's unique stormwater characteristics and operational needs while meeting Washington's stringent industrial stormwater treatment performance requirements. The three treatment approaches were installed on-time before the end of 2014, and the Port will present design information, performance data, and lessons learned to date.

Moderator: Mark Rettmann, Port of Tacoma

Panelists: Ross Dunning, Kennedy Jenks

Anita Fichthorn, Port of Tacoma

SESSION #19: OAK HARBOR CLEAN WATER FACILITY CULTURAL RESOURCES COMPLIANCE: A CASE STUDY

Room: 318

This presentation will outline how the City of Oak Harbor, WA, in cooperation with Tribal Governments, State and Federal agencies, developed an agreement to address the needs of their trust responsibility in regard to Section 106 of the National Historic Preservation Act (36 CFR 800) while providing a necessary service to a rapidly-growing community. The panel will provide a synopsis of developing an archaeological work plan in addition to deploying a General Contractor/Contract Manager process in order to complete a project where cultural resources, including human remains, are a concern.

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Moderator: Gideon Cauffman, City of Oak Harbor

Panelists: Gideon Cauffman, City of Oak Harbor

Joe Stowell, City of Oak Harbor

Rob Whitlam, State of Washington, Archaeology

Kelly Bush, Equinox Research Consulting International, Incorporated

Liz Ellis, Washington State Department of Ecology

SESSION #20: NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY WEST RELOCATION ENVIRONMENTAL IMPACT STATEMENT (EIS) AND PROGRAMMATIC AGREEMENT (PA)

Room: 407

The U.S. Army Corps of Engineers (USACE), Kansas City District and CH2M HILL, Inc. (CH2M) prepared an environmental impact statement (EIS) to support the relocation of the National Geospatial-Intelligence Agency's (NGAs) western headquarters to a new facility (Next NGA West Campus) in St. Louis. The EIS considered four potential locations for the Next NGA West Campus: three sites in Missouri and a site adjacent to Scott Air Force Base in Illinois.

Moderator: Kira Zender, CH2M

Panelists: Kira Zender, CH2M

Michelle Rau, CH2M

Lori Price, CH2M

Laurie Farmer, USACE

9:30 A.M. – 10:00 A.M.

COFFEE BREAK AND POSTER SESSION

Room: BALLROOM A/B

TUESDAY

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POSTER SESSIONS: TUESDAY, MARCH 13
9:30 A.M. – 10:00 A.M. AND 2:45 P.M. – 3:15 P.M.
Room: BALLROOM A/B

TRACK	ABSTRACT TITLE	NAME	AFFILIATION
Ecological Restoration	From Industrial Warehouse to Academic Campus: A Brownfield Redevelopment Case Study at American Public University	Aubrey Genn and Don Vartorella	American Public University System
Endangered Species, National Environmental Policy Act, Transportation	South Carolina Department of Transportation and the U.S. Department of Agriculture, Partnering for Success in Migratory Bird Treaty Act Compliance: A Case Study	Mark Mohr	SC Department of Transportation
Endangered Species, Planning and Permitting, Puget Sound, Transportation	Using Digital Data Collection to Streamline Environmental Compliance, Build Partnerships, and Communicate Environmental Stewardship	Tyler Graham	Washington State Department of Transportation (WSDOT)
National Environmental Policy Act, Planning and Permitting	Fast Paced NEPA- Is it Realistic?	Michelle Rau	CH2M
Public Involvement, Transportation	Transforming I-10 with the help of Public Involvement	Noemi Herrera Rojas	HNTB
Remediation, Brownfields and Emerging Contaminant Issues	Remediation of Oil Contamination in a Southern New Jersey Wetland System	Kelli Hicks	BBJ Group
Remediation, Brownfields and Emerging Contaminant Issues	Golf Course - Brownfield Redevelopment	John Tanaka	BBJ Group
Cultural and Historical Resources, Planning and Permitting	Clearing Trails - Proven methods for organizing the complexities of National Historic Trail impact analysis	Craig Johnson	Environmental Planning Group
Cultural Resources, NEPA	Building a Sustainable Showcase at the Bureau of Reclamation's Date Street Campus in Boulder City, NV	Faye Streier	Bureau of Reclamation

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**10:00 A.M. – 11:30 A.M.
CONCURRENT SESSIONS**

SESSION #21: IMPLEMENTING EXECUTIVE ORDER 13807 PART 2: GUIDING PRINCIPLES FOR ACCELERATING ENVIRONMENTAL REVIEW PURSUANT TO NEPA

Room: 316

On August 15, 2017, President Trump issued Executive Order (EO) 13807 for Establishing Discipline and Accountability in the Environmental Review and Permitting Process for Infrastructure (<https://www.whitehouse.gov/the-press-office/2017/08/15/presidential-executive-order-establishing-discipline-and-accountability>). This EO, among other things, establishes the goal for federal agencies to complete the environmental reviews and authorization decisions for new major infrastructure projects in an average of approximately two years. By September 14, 2017, the Council on Environmental Quality was required to publish an “Initial List of Actions,” in the Federal Register. The EO also establishes the “One Federal Decision” where federal agencies will issue a single Record of Decision that records all individual agency decisions on the subject major infrastructure project. All federal authorization decisions, such as the issuance of permits, are to be made with 90 days of the issuance of the ROD. Major infrastructure projects are defined similarly to the covered projects in Title 41 of the FAST Act and include surface transportation, including roadways, bridges, railroads, and transit; aviation; ports, including navigational channels; water resources projects; energy production and generation, including from fossil, renewable, nuclear, and hydro sources; electricity transmission; broadband Internet; pipelines; storm water and sewer infrastructure; and drinking water infrastructure projects.

NAEP, through the NEPA Practice Group, has compiled a draft guidance document outlining best practices for completing Environment Impact Statements on major infrastructure projects in no more than two years. This panel will describe methods and techniques that have been used in the successful and timely evaluation of complex actions involving multiple agencies and with high public interest.

Moderator: Betty Dehoney, HDR, Inc.

Panelists: Karen Hanley, Council on Environmental Quality

Ronald Lamb, U.S. Marine Corps

David Mattern, Parametrix

Shannon Stewart, Stewart Consulting, LLC

SESSION #22: RECENT (AND SIGNIFICANT) CHANGES TO RENEWABLE ENERGY POLICY IN NORTH CAROLINA

Room: 315

North Carolina is currently ranked second in the country for solar energy generation. On the last day of the 2017 legislative session, the North Carolina General Assembly passed House Bill 589 with the short title “Competitive Energy Solutions for NC” that will, among other things, restructure how North Carolina implements the federal Public Utilities Regulatory Policy Act of 1978. This legislation makes some of the most comprehensive changes in energy policy in North Carolina in a decade. The bill was the result of over nine months of negotiations between a diverse group of stakeholders and represents a compromise among all parties, including Duke Energy and solar energy producers. The bill has strengths and weaknesses, but overall has the support of most of the solar industry. This panel will discuss the stakeholder process and the compromises that resulted in House Bill 589 as well as how the new legislation will be implemented and what impacts it may have on the booming solar industry, other renewable energy producers, and PURPA implementation in other states.

Moderator: Makary Hutson, USFS

Panelists: Hayes Finley, Smith Moore Leatherwood LLP

Mary Penny Kelley, North Carolina DENR

Deborah Ross, Smith Moore Leatherwood, LLP

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SESSION #23: MITIGATION, DESIGN, AND OPERATIONS

Room: 317

Avoid, minimize, and mitigate: design and operations considerations and compensating for the impacts of development. Three presentations will each focus on a segment of mitigation, including a presentation about planning for and avoiding climate change impacts, assessing and minimizing impacts from legalization of marijuana operations, and constructing and monitoring mitigation projects.

Moderator: Shirley Schultz, City of Tacoma

Presentations:

Getting High at the Expense of the Environment: Illegal Cannabis Operations Coming into Compliance in California

Nichole Davis, Michael Baker International

Preparing Stormwater Infrastructure for Climate Change Impacts in King County

Jessica Engel, King County (WA)

Advance Mitigation Reporting Tool

Randy Olden, HDR, Inc.

Stuart Kirkham, California Department of Transportation

SESSION #24: ENDANGERED SPECIES – WHITE-NOSE SYNDROME, NEPA TOOLS, AND ADAPTIVE MANAGEMENT

Room: 318

These presentations focused on endangered species research tools utilized in conservation planning and ESA compliance. The first presentation focuses on the White-Nose Syndrome disease impacting populations across the U.S. The second presentation is focused on NEPA as a planning tool to be effective in developing robust, transparent, and defensible integrated management plans. The third presentation takes us to the Missouri River Recovery Management Plan and EIS where the Corps takes on developing an action plan for three listed aquatic species.

Moderator: Monte Alves, ERM

Presentations:

White-Nose Syndrome in Western North America

Leslie Rodman-Jaramillo, ERM

NEPA: A Tool for Fish and Wildlife Management and Conservation Planning

Michael Mayer, Barr Engineering Co.

Walking the Tightrope: Balancing Certainty of Action for ESA Compliance and Scientific Uncertainty through Adaptive Management on the Missouri River

Mike Snyder, USACE, Kansas City District

SESSION #25: REMEDIATION AND COMMUNITY ENGAGEMENT

Room: 407

Superfund cleanup sites and other hazardous sites are frequently located near low-income communities, communities of color, and tribal nations. These underserved communities have higher public health risks as a result of contamination, and can experience more adverse impacts during the active phases of a cleanup.

Inclusive, equitable, and proactive community involvement can help address health and safety concerns throughout the cleanup of a Superfund site. EPA develops Community Involvement Plans (CIPs) for Superfund sites to help guide their public outreach. Yet many widespread community involvement methods (i.e. large public meetings, written public comment periods) are not effective in environmental justice communities due to

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language barriers, exclusive terminology, cultural insensitivity, time restrictions, geographic distance, and other factors.

The panel will discuss public involvement approaches that aim to address the needs and rights of underserved communities and tribal nations.

Moderator: Betsy Daniels, Triangle Associates

Panelists: Betsy Daniels, Triangle Associates
Sophie Glass, Triangle Associates

11:30 A.M. – 1:00 P.M.

**LUNCHEON ADDRESS - GLORIA FLORES
INTRODUCTION OF NAEP FELLOWS
PRESENTATION OF THE ZIRZOW AWARD**

1:15 P.M. – 5:00 P.M.

PORT OF TACOMA FACILITIES BOAT TOUR
Location: Off Property – Meet at Registration Desk
Tour description on page 63
Sign up in advance at registration desk.

1:15 P.M. – 2:45 P.M.

CONCURRENT SESSIONS

SESSION #26: NEPA AND PERMITTING: STREAMLINING POLICIES AND STRATEGIES IN THE TRUMP ADMINISTRATION

Room: 316

With new Executive Orders, internal agency policies, and new administrative initiatives related to major infrastructure projects, the Trump Administration is seeking to promote numerous NEPA and permitting streamlining efforts, even in the absence of new infrastructure legislation. A representative of the Administration's Federal Permitting Improvement Steering Council (FPISC) will explain what these efforts mean and how they will be implemented. NEPA and permitting specialists will offer suggestions based on past practices and offer new ideas on how to comply with these initiatives. A lawyer with government and private practice experience in natural resources and infrastructure development will discuss how these efforts will play out in potential litigation challenges.

Moderator: Fred Wagner, Venable LLC

Panelists: Amber Levosfsky, FPISC
Laura Cooper, ICF
Chris Moelter, ICF

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SESSION #27: APPROACH TO ENERGY IMPACTS UNDER NEPA AND NUCLEAR ENERGY CHALLENGES

Room: 315

Over the last decade, the U.S. has seen a dramatic shift in the nuclear industry where, instead of seeing an increase in new nuclear projects, there has been a decline in the industry that has included early retirements of nuclear plants and abandoned licensing and construction projects. Two presentations will look into the current political and economic status of nuclear power in the U.S., as well as the multitude of challenges for decommissioning nuclear reactors. A third presentation will consider the benefits of risk-based analysis to analyze the environmental effects of certain projects under NEPA, where accidents and other types of unplanned events can significantly change project impacts.

Moderator: Ray Outlaw, Enviroissues

Presentations:

The Status of Nuclear Energy in Shifting Political and Economic Environments

Kevin Taylor, AECOM

Considering Impacts from Unplanned Events under NEPA: A Risk-Based Approach

Fred Carey, Potomac-Hudson Engineering, Inc.

Decommissioning of Nuclear Reactors and the Challenges of the Nuclear Industry

Chaitanya Mehta, AECOM

SESSION #28: BOATS, TRAINS, AND AUTOMOBILES: TRANSPORTATION PLANNING, TOURISM, AND CLIMATE CHANGE

Room: 317

This diverse session will include discussions of transportation planning that intersect with a wide range of environmental issues. This session will explore how impact prediction tools, long term planning, and multidisciplinary collaboration are being implemented to drive sustainable transportation solutions by rail, boat, and highway. We will discuss how noise impact prediction tools are used to support rail transit planning and NEPA analysis through commonly used FTA and FRA spreadsheet modeling tools. We will hear about a case study that assesses the benefits and limitations of using these tools as compared to a 3D modeling tool like SoundPlan. This session will include a presentation about the long-term efforts to establish a passenger ferry service to the Fort Pickens area of Gulf Islands National Seashore in Florida. Implementing a ferry service for this area provides a new way to travel between and experience key locations in the Pensacola Bay area and, in doing so, improves resiliency of the community. Finally, this session will travel across the country to the Bay Area of California. California State Route 37 (SR 37) is an important regional connection linking the north, east and west San Francisco Bay Area sub-regions. SR 37 is also located in an ecologically rich area. The study corridor currently experiences severe traffic congestion and temporary flooding during heavy storms, which is expected to worsen with sea level rise. The project team is developing strategies for corridor issues based on previous studies and through ongoing coordination with project stakeholders. The goal of the project is to produce an integrated transportation and ecosystem design for SR 37, through multidisciplinary collaboration, that will improve mobility across all modes and maintain public access, and that will increase corridor resiliency to storm surges and sea level rise.

Moderator: Patrick Romero, WSP

Presentations:

Transit Noise Prediction with 3D Models Compared to the Spreadsheet Model from the Federal Transit Authority and Federal Railroad Administration

Scott Noel, HMMH

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California SR 37: Developing a Climate-Resilient Integrated Transportation and Ecosystem Corridor Design through Multidisciplinary Collaboration

Kristin Tremain Davis, AECOM

Pensacola Bay Ferry: Planning for Resilient Transportation and Tourism at Gulf Islands National Seashore

Tracy Littell, VHB

SESSION #29: KLAMATH BASIN WATER – RESILIENCE AND RESTORATION

Room: 318

From water shut-offs to fish kills, from fishing season closures to foreclosed farms, the Klamath Basin has seen decades of lawsuits and protests. The panel speakers bring a diversity of perspectives to describe the challenges, the science, the agreements, and the future that define water conversations in the Klamath Basin. The panel will begin with a primer on the Klamath Basin to orient the audience. The first speakers will describe the river system, the water rights, the water users, and the fish and wildlife that rely on this water to provide the context for the Klamath Basin issues. The panel will then go deeper to explore the important role that science has played in water negotiations and how science has helped pave the way for disparate interests to make difficult decisions and implement the agreements. Looking to the future, the panel will describe the current effort to remove four dams along the Klamath River. Once implemented, this will be the largest dam removal project in U.S. history. It will restore fish passage to 420 miles of historic salmon habitat and provide economic stimulus to both Klamath River and ocean fishing communities. The challenges and solutions being addressed in the Klamath Basin inform water conflict wherever it occurs.

Moderator: **Jennifer Miller**, David Evans and Associates, Inc.

Panelists: **Mike Belchik**, Yurok Tribe, Klamath River Division
Larry Dunsmoor, Confluence Resource Consulting
Mark Bransom, Klamath River Renewal Corporation
Richard Deitchman, Somach Simmons and Dunn

SESSION #30: 404 AND WETLANDS

Room: 407

Section 404 of the Clean Water Act establishes a program to regulate the discharge of dredged or fill material into waters of the United States (WOUS). This program is administered, and permits are issued, by the US Army Corps of Engineers. Its policy is interpreted and guided by the Environmental Protection Agency. Like the National Environmental Policy Act (NEPA), 404 permitting requires inter-agency involvement, review and coordination. Unlike NEPA, projects that require Section 404 permits must demonstrate that they have the minimum WOUS impacts of any practicable alternative. Also unlike NEPA, all projects, irrespective of their funding source(s), are subject to Section 404. This session's presentations will discuss the benefits and challenges of early inter-agency coordination, at both regional and project-specific scales. It will also document how the use and accurate interpretation of remote sensing data can provide both the site specific and regional planning tools necessary for the early and meaningful inter-agency coordination that is necessary to move projects smoothly and efficiently through the 404 permitting process.

Moderator: **Ward Marotti**, WK Dickson

Presentations:

Process Improvement: Integrating NEPA and Clean Water Act Section 404 Permitting

Hannah Griego, HDR, Inc.

A Collaborative Approach-A NEPA/Section 404 Clean Water Act Merger Process: What it is and Lessons Learned

Laura Morland and Josh Fitzpatrick, Mead and Hunt, Inc.

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Improving Wetland Determination with Unmanned Aerial Vehicle (UAV) Technology

Monica Burchette, Olsson Associates

Tapping the National Wetland Condition Assessment (NWCA) to Address Wetland Condition across Scales: A Florida Case Study

Kelly Reiss, American Public University

2:45 P.M. – 3:15 P.M.

COFFEE BREAK AND POSTER SESSIONS

Room: BALLROOM A/B

3:15 P.M. – 4:45 P.M.

CONCURRENT SESSIONS

SESSION #31: SUCCESSFUL STRATEGIES FOR EXPEDITING NEPA ANALYSIS AND PERMITTING

Room: 316

This session will present several examples of strategies of implementation of expediting processes for NEPA analyses, including using an issue-based approach, use of public involvement, and better integration of the planning process.

Moderator: **Brock Hoegh**, HNTB

Presentations:

Streamlining NEPA: Issue-Based Analysis

Matt Petersen, SWCA

Streamlining NEPA: Using the Public Involvement Process to Create Efficiencies

Janet Guinn, SWCA

Integration of NEPA, Planning, and Alternatives Analysis to Expedite and Improve Project Delivery for Transportation Projects

James Maughan, USDOT Volpe National Transportation Systems Center

NEPA on the Move: The Historical Validity of Streamlining

Jack Allen, HNTB Corporation

SESSION #34: CULTURAL RESOURCES - FROM TRAILERS TO TREES TO TRASH: ADAPTATIONS FOR ADDRESSING UNUSUAL CULTURAL RESOURCES

Room: 318

Jacobs/CH2M cultural resource specialists are providing anecdotes of unusual resources around the country, including canals, mobile home parks, landfills, and culturally modified trees. They will explore how cultural resources professionals and their clients are adapting to a recent history that retains so many unusual resource types and how project schedules, budget, and client relationships are affected. Ample time will be dedicated to discussion and questions from the audience.

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Moderator: Connie Gray, Jacobs

Panelists: Connie Gray, Jacobs
Stacy Bumback, Jacobs
Lori Durio Price, CH2M
James Mayer, CH2M

SESSION #35: STREAM RESTORATION: FLOW AND HABITAT

Room: 315

Riparian systems are critical parts of our environment and challenging to successfully restore and manage. Further, work in and around waterways is often difficult to permit and often involves multiple regulatory agencies. This session reports on stream restoration efforts from across the country in both wild and urban settings. The case studies begin describing efforts at controlling Tamarisk on the Colorado River in the Grand Canyon to provide habitat for leopard frogs. The next presentation explains how by applying a holistic design approach, Richland County, South Carolina has successfully integrated regenerative stormwater conveyances (RSCs) into a stream and wetland restoration project to provide significant functional uplift to a significantly impaired urban watershed. This is followed by a tale of regulatory complexity in Montana where an emergency response to flooding brought a cease and desist order, and how violations of multiple regulations were resolved with a variety of restoration projects. Finally, from Florida we have a description of an improved model to predict stream bank erosion and stability.

Moderator: Ward Marotti, WK Dickson

Presentations:

Lower Portal Road Spring Habitat Improvement Project

Heidi McMaster, US Bureau of Reclamation

Stream and Wetland Restoration + Regenerative Stormwater Conveyance = Significant Watershed-Scale Functional Uplift in Columbia, SC

Ward Marotti, WK Dickson

Callahan Creek, Montana: Flood Risk Reduction and Channel Restoration

Jonathan Schick, HDR, Inc.

Streambank Erosion Model Assessment for the Northern Gulf of Mexico Coastal Plain

Johan Liebens, University of West Florida

5:00 P.M. – 5:45 P.M.

VETTING SESSION WITH TED BOLING - NEPA BEST PRACTICES

Room: Ballroom C/D

6:00 P.M. – 10:00 P.M.

HISTORIC ARCHITECTURE TOUR/DINE AROUND AND HISTORIC BREWERY TOUR

**Sign up for your choice before 1:00 P.M.
Sign-up sheets are located at registration.**

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8:00 A.M. – 9:30 A.M.

ANNUAL MEETING, ENVIRONMENTAL EXCELLENCE AWARDS, AND BREAKFAST

Room: BALLROOM C/D

A buffet breakfast will be available.

9:30 A.M. – 10:00 A.M.

COFFEE BREAK

Room: BALLROOM A/B

10:00 A.M. – 11:30 A.M.

THEA FOSS WATERWAY SUPERFUND SITE WALKING TOUR

Lunch will be provided upon return to the hotel.

Tour description on page 63

Sign up in advance at registration desk.

10:00 A.M. – 11:30 A.M.

CONCURRENT SESSIONS

SESSION #36: NEPA PRACTITIONERS LESSONS LEARNED TO BETTER SERVE THE NAVY/MARINE CORPS ON CONTROVERSIAL PROJECTS OVERSEAS AND IN THE U.S.

Room: 316

This session will provide a NEPA practitioner's perspective on managing controversial Navy/Marine Corps projects in the Pacific, southwest and overseas. Previous NAEP presentations have touched on the complexity of Department of Defense NEPA projects, and this session will discuss in more detail the unique challenges of Navy/Marine Corps NEPA; share lessons learned from a few sample controversial projects; and identify how practitioners can better serve the Navy/Marine Corps.

Moderator: **Melanie Hernandez**, Scout Environmental, Inc.

Speakers: **Melanie Hernandez**, Scout Environmental, Inc.

Ryan Pingree, Scout Environmental, Inc.

SESSION #38: NORTHWEST AIRPORTS AND ENDANGERED SPECIES – MEETING BOTH OPERATIONAL AND CONSERVATION GOALS

Room: 317

A number of Northwest Airports harbor important populations of plant and animal species protected under the U.S. Endangered Species Act

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(ESA). These airports provide de facto conservation of unique habitats for these species because of operational needs for open and unobstructed areas. However, airport operations and management objectives, including maintaining safety and economic viability at these facilities can present challenges when these intersect with the objectives of maintaining habitats and protecting species. These activities require collaboration between agencies and facility operators and provide a unique opportunity for creative or adaptive management to realize potentially divergent goals. The panel of biologists, airport operators, and program managers will discuss this unique situation.

Moderator: Casey Storey, David Evans & Associates

Panelists: Cayla Morgan, FAA

Cat Brown, USFWS

Ian Whitlock, Port of Portland

SESSION #39: EVOLVING PUBLIC INVOLVEMENT TO MEET TODAY'S AUDIENCES

Room: 318

Today's public is increasingly savvy and interested in visual storytelling, increasing expectations for almost any type of project. These increasing expectations to deliver easy to use, access, and understand tools create a challenge for practitioners faced with explaining complex projects. This session will guide you through this challenge by examining trends in online engagement, discussing approaches for increasing public participation and focusing on successful efforts to present complex information in visually compelling ways. Each presentation will address various aspects of this challenge, from understanding audience expectations to examples of successful use of technical tools that engage audiences and lead to better projects. Panelists will set the stage for subsequent public involvement sessions that dive deeper into the practice of public involvement.

Moderator: Dennis Sandstrom, EnviroIssues

Presentations:

Revamping Public Outreach through ArcGIS Story Maps

Mark Mohr, SCDOT

Getting More Shots, Reducing Bounces and Playing a Better Game: Online Digital Engagement in 2018

Ray Outlaw, EnviroIssues

USF Water Atlas, Making Data Presentation Look Easy

Laura Thorne, Green Mission Ops

SESSION #40: LOW IMPACT DEVELOPMENT

Room: 315

This session reports on several current efforts and programs from across the country aimed at reducing various impacts of different types of development. In California the State developed the historical concept of the "Group Monitoring" program into the current iteration "Compliance Groups". The option is similar to Group Monitoring as it retains a mechanism that allows Dischargers of the same industry type to comply with the General Permit through shared resources in a cost saving manner.

The next presentation describes retrofitting school campuses with Low Impact Development (LID) features to improve water quality, stormwater management, resiliency, and sustainability. This has the added benefit of educating elementary through high school students and their families.

Next, the Washington State Department of Ecology is adapting the EPA's Clean Water Need Survey to find out what investments are needed for water quality infrastructure throughout the state, focusing on small communities. In this session, they will explore how integrating data from multiple sources can help expand their evaluation from the individual project scale to the watershed level.

Finally, the session concludes with a discussion of how urban runoff is an ongoing issue that needs constant revisions, policies, and evaluations. It is known as storm drain pollution is the surface runoff of rainwater created by urbanization. Urban runoff has led to flooding and water pollution in urban communities. Urban areas may contain up to 90 percent hard, impervious surfaces such as rooftops, sidewalks, streets, construction sites and parking lots and pavement where water collects and quickly runs off.

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Moderator: David Mattern, Parametrix

Presentations:

Should Regulators Consider Regional Precipitation When Developing Stormwater Action Levels?

Gwendolyn Erickson, SHN

How to Retrofit School Campuses with Low Impact Development and Resiliency Features,

Jennifer Walker, Watearth, Inc.

Water Quality Needs, Actions, and Outcomes: Are Investments Effective?

Eliza Keeley-Arnold, University of Washington, Department of Ecology

Urban Runoff: Water Quality Consequences and Solutions

Santee Johnson, Community Outreach Specialist and Grant Writer

11:30 A.M. – 11:45 A.M.

PICK UP BOX LUNCH

11:45 A.M. – 1:15 P.M.

FILM SCREENING: “RETURN OF THE RIVER”

Room: Ballroom C/D

ELWHA DAM REMOVAL: “RETURN OF THE RIVER”

The Elwha Dam Removal Project is the largest project of its type in the world. Rising in the Olympic Mountains, the Elwha flows from glaciers to the Strait of Juan de Fuca in only 38 miles. For centuries the river supported large runs of many species of salmon, which in turn fed the surrounding ecosystem and was the mainstay of native peoples. In 1912 the Elwha was blocked just five miles from its mouth by the first of two dams, neither of which provided fish passage. Over a century later the dams have now been removed and salmon are returning to the Elwha. The documentary movie “Return of the River” follows a group of strong-minded committed people as they attempt the impossible: to change the public opinion of a town and eventually the nation to bring a dam down. The community comes to a consensus, setting the Elwha River free and showing the way to more sustainable future.

Fundamentally, the Elwha River is a story about people and the land they inhabit. The film captures the tenacity of individuals who would not give up on a river, mirroring the tenacity of salmon headed upstream to spawn. It is a narrative with global ramifications, exploring the complex relationship between communities and the environment that sustains them. The Elwha River is the ancestral home of the Lower Elwha Klallam Tribe, who witnessed firsthand the impact of two dams on the river and its legendary fish runs. The tribe led the campaign to take the dams down; a century later, with help from numerous environmental groups and a national park, they are watching their dream come true. The film addresses environmental justice issues that resonate far beyond the Pacific Northwest. The story's primary conflict is a clash of values around a natural resource. To the Lower Elwha Klallam Tribe, the river is a source of life and abundant salmon, central to the tribe's culture and economy. New settlers see the river as a source of electric power, essential for industry.

The film introduces an ensemble cast of characters, creating a nuanced portrait of a community and its dilemma regarding a shared resource. As the largest dam removal project in history begins, the camera soars over mountain headwaters, dives into schools of salmon waiting to return upstream, and captures turbines grinding to a halt. The film features people and perspectives on all sides of the Elwha debate, reflecting the many voices of the Elwha valley.

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11:30 A.M. – 1:15 P.M.

CONCURRENT SESSIONS

SESSION #41: NEPA: TOOLS FOR ADAPTATION, INTEGRATION AND MANAGEMENT

Room: 316

This session will present a variety of tools that the NEPA practitioner can utilize in the areas of adaptive management, planning and integration, and management of the NEPA process. Case studies and examples presented will include how the PMP certification program can assist NEPA practitioners; better aligning NEPA analyses with the EMS process; new ways of formulating alternatives in the NEPA process; and advances in visual analysis.

Moderator: Leslie Tice, HDR, Inc.

Presentations:

How Can Being a PMP Help You Survive NEPA Projects?

Tom Hale, SWCA

Aligning National Environmental Policy Act Process with Environmental Management Systems (EMS); a Call to Action

Steve Hall, Point Consulting

Microalternatives: The Real Heart of a Good EIS

Peyton Doub, NRC

Visually Integrated, Effective Integration of NEPA-related Visual Impact Analyses, Mitigation, and Reclamation for Large Scale Linear Projects

Craig Johnson, Environmental Planning Group, LLC

SESSION #42: NEPA TOPICS - KEY CONSIDERATIONS AND EVOLVING ISSUES FOR ENERGY PROJECTS AND VISUAL IMPACT ASSESSMENT

Room: 315

This session will present several case studies of common and emerging NEPA analysis issues and problems. Presentations will illustrate how various subject matter assessments integrate with NEPA reviews; lessons learned from NEPA reviews of large renewable energy projects; improving NEPA visual assessments; and preparing energy development NEPA analyses in the context of recent regulatory directives on expediting NEPA analyses.

Moderator: Jason Medema, David Evans and Associates

Presentations:

A NEPA Case Study for Synchronizing Air, Human Health, and Ecological Assessments for Direct, Indirect and Cumulative Effects

Krish Vijayaraghavan, Ramboll

NEPA Assessments for Large-Scale Renewable Energy Projects on Army Land: Best Practices and Lessons Learned

Stephanie Rice, Concurrent Technologies Corporation

Incorporating Visual Resource Inventory Data for a Streamlined and Defensible Visual Resource Analysis for BLM NEPA Documents

Diane Simpson-Colebank, Logan Simpson

The Department of Interior NEPA Process under Order 3355: Case Study for Energy Corridor Development

Heidi Hartmann, Argonne National Laboratory

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SESSION #43: TRIBAL CONSULTATION AND PROJECT DELIVERY - MUKILTEO MULTIMODAL FERRY TERMINAL CASE STUDY

Room: 317

Impacts on cultural and historic resources are generally regulated under the National Historic Preservation Act of 1966 (Section 106). Treaty fishing rights were established in the 1850s when Gov. Isaac Stevens negotiated a series of federal treaties with Indian tribes in western Washington. Tribes reserved certain rights including the right to hunt, fish, and gather in their usual and accustomed (U&A) places. Federal agencies have a tribal trust responsibility to ensure their actions do not infringe on tribal treaty rights. Failure to properly consult and resolve project impacts on tribal interests can result in project delays and permit denial. Early project coordination and understanding of Tribal rights can help projects anticipate and address Tribal concerns while maintaining the project schedule.

Successful consultation requires a thoughtful approach to engaging with tribes on a wide range of interests including cultural and natural resources and treaty fishing impacts while the project is in early development. The Mukilteo Multimodal Terminal Project provides a good case study for such coordination. The project location has significant cultural and natural resources on the site, and is an area used by several tribes for treaty fishing activities. The project resulted in several tribal agreements that included cultural design elements and treaty rights avoidance measures.

Moderator: **Sasha Visconty**, Axis Environmental, LLC

Panelists: **Kevin Bartoy**, Washington State Ferries

Philip Narte, Washington State Ferries Tribal Liaison

Megan Cotton, Washington State Department of Transportation Tribal Liaison

SESSION #44: COMMUNICATING COMPLEX TOPICS AND ENSURING RESULTS

Room: 318

Regardless of scale or complexity, clear expectations for public participation are critical during the review of environmental projects. With the public increasingly demanding a role in key decisions, clarifying the who, what, when, where and why sets the stage for success by demonstrating clear expectations and transparency. When dealing with highly complex projects the challenge grows as practitioners work to distill hundreds or even thousands of pages of analysis with the public. While detailed descriptions of methodology and results are a must, the public often expects more with less (more information, less personal commitment). Using case studies, this panel will explore options for using a wide range of tools for communicating complex information.

Moderator: **Ray Outlaw**, EnviroIssues

Panelists: **Adam Teepe**, HDR, Inc.

Betsy Stevenson, Skagit County

Leah Forbes, Skagit County

Dennis Sandstrom, EnviroIssues

Presentations:

Ensuring Successful Stakeholder and Community Engagement

Nicholas Albergo, GHD Services, Inc.

WEDNESDAY, MARCH 14

SESSION #45: LAND USE AND ENVIRONMENTAL REVIEW FOR P3-FUNDED URBAN INFRASTRUCTURE AND PRIVATE CAPITAL INVESTMENT IN 'PAY FOR SUCCESS' RESTORATION

Room: 407

For many years, state and local governments have had to navigate around challenges to public projects' planning, design, permitting and construction, which are often centered around funding and organizational/regulatory coordination. This session will discuss several site-specific case studies, as well as regional and national methods, that have integrated innovative approaches, including public-private partnerships (P3s) and pay for performance ecological restoration, to address these challenges and expedite project implementation.

Moderator: Ward Marotti, WK Dickson

Panelists: Kovid Saxena, Sam Schwartz Consulting

Jennifer Dickson, Herrick

Eldad Gothelf, Herrick

Adam Davis, Ecosystem Investment Partners

1:15 P.M. – 1:45 P.M.

COFFEE BREAK

1:45 P.M. – 3:15 P.M.

CONCURRENT SESSIONS

SESSION #46: CURRENT NEPA ISSUES

Room: 316

This session will present several examples of some of the most current and pressing issues in NEPA practice today. Presentations will include common themes that emerge from EPA reviews of federal agency EISs; lessons learned from teaching university students about NEPA; tips for better understanding the NEPA contracting process; and practice implications from a review of NEPA federal appellate court decisions.

Moderator: Courtney Arena, Stanley Consultants

Presentations:

Prominent Themes in U.S. EPA Region 10 NEPA Comment Letters

Erik Peterson, U.S. EPA

What Teaching Students Tells Us About Changing NEPA

Kris Thoenke, American Public University

10 Things I Hate About You or A Better Understanding Your NEPA Contractor or Agency

Tom Hale, SWCA

NEPA Litigation In The Real World: What Projects Get Sued and How Federal Appellate Courts Decide NEPA Cases

Jennifer Hernandez, Holland & Knight

WEDNESDAY, MARCH 14

SESSION #47: GREENING TRANSPORTATION INFRASTRUCTURE IN WASHINGTON STATE: ENERGY SAVINGS PERFORMANCE CONTRACTING AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT)

Room: 315

Through an innovative Energy Savings Performance Contracting (ESPC) program at the Washington State Department of Enterprise Services (DES) Energy Program, the Washington State Department of Transportation (WSDOT) has embarked on energy efficiency upgrades across the state transportation system, including facilities, roadway lighting, and the ferry system. The program allows for project costs to be offset by utility and maintenance cost savings with capital funding coming from low-interest loans through the State Treasurer's Office, utility grants and rebates, and other funding sources. The DES program allows WSDOT to fund and complete numerous turnkey projects that might not otherwise be accomplished with increasingly limited state resources.

This panel will include participation from DES, WSDOT, and Ameresco, a private Energy Service Company that has worked with WSDOT on several projects through the ESPC program. The panel will introduce environmental professionals to alternative programs for financing energy upgrade projects, which can potentially lead to significant reductions in energy usage, greenhouse gas emissions, and other resource usage while, at the same time, offering reduced risk to public agencies and long-term cost savings to taxpayers.

Moderator: Kevin Bartoy, Washington State Department of Transportation

Panelists: Doug Kilpatrick, Washington State Department of Enterprise Services

Grant Thorsland, Ameresco

Steve Holloway, Washington State Department of Transportation

Jim Hurst, Washington State Department of Transportation

SESSION #48: TRANSPORTATION AND STREAMLINING NEPA – REFLECTION AND LOOK AHEAD

Room: 317

The Chicago Region Environmental and Transportation Efficiency (CREATE) Program is a nationally-prominent rail infrastructure program. It is managed by the unique partnership of the United States Department of Transportation (DOT), the State of Illinois, the City of Chicago and the Association of American Railroads. The estimated benefits of the full CREATE Program are estimated at \$31.53 billion over 30 years after all of the project components are operational.

Although the CREATE Program includes a mix of funding from all partners, the entire program and its component projects are subject to federal-aid procedures including compliance with National Environmental Policy Act (NEPA). The CREATE Program was officially announced in 2003. At that time, the concept of tiered NEPA reviews was a relatively new and largely untested concept. It was believed that this approach gave FHWA and the CREATE partners the flexibility and streamlined approach needed to accelerate project delivery while, at the same time, allow for an assessment of the potential impacts of the Program in a proportional and graduated manner. To meet the intent of tiering, the FHWA Illinois Division Office, the Illinois Department of Transportation, and the City of Chicago Department of Transportation collaboratively developed a program-specific environmental strategy, known as the Systematic, Project Expediting, Environmental Decision-making (SPEED) Strategy, to implement a Programmatic NEPA review process for the CREATE Program.

Since its inception in 2003, about half of the 70 rail and roadway projects within the CREATE Program have been successfully implemented. These conditions present a unique and timely opportunity to reflect on nearly 15 years of project delivery under the programmatic NEPA review process established by the SPEED Strategy, including lessons learned. Moreover, the panelists will look ahead, evaluating the merits of the process, its effectiveness in expediting class action determinations and environmental reviews, with an emphasis on what can be improved moving forward.

In contrast with the CREATE Program, the greater Seattle area is expanding its regional high capacity transit system as part of a 25-year, \$54 billion capital improvement program. The program will expand light rail and commuter rail transit serving the Central Puget Sound region; it will continue operation of the largest regional express bus system in the country, while delivering a new Bus Rapid Transit mode of service as well. Sound Transit (the regional transit authority) is poised to deliver this ambitious program of mass transit expansion. Sound Transit works together with Region 10 of the Federal Transit Administration (FTA) and the Federal Highway Administration (FHWA) to prepare joint documents that satisfy

WEDNESDAY, MARCH 14

both NEPA and Washington State Environmental Policy Act (SEPA) requirements. We routinely hear about efforts at the federal level to streamline NEPA. Federal transportation legislation like the FAST Act and the President's Executive Order 13807 are no exception. These federal laws and orders include provisions for more timely decision making in the NEPA context. But in practical terms, trying to achieve such efficiencies while implementing a program of improvements incrementally can be challenging. This session will include discussion of the benefits and challenges of integrating the state and federal environmental review process, and efforts to streamline at the local planning level to meet the goal of accelerating project delivery.

Moderator: Ron Deverman, HNTB

Panelists: Michael Kowalczyk, FHWA Illinois Division

John Sherrill, Illinois Department of Transportation, Central Office

Adin McCann, HNTB

Kent Hale, Sound Transit

SESSION #49: CONNECTING LONG-TERM PUBLIC ENGAGEMENT AND CITIZEN SCIENCE

Room: 318

Public engagement is multifaceted and often includes not only efforts made by environmental programs but also by citizens themselves and often in conjunction. This session seeks to answer the questions, how can we take advantage of enhanced citizen science and given all the new and increasingly accessible technology, how can we ensure if it is working? The session begins with a study about the effectiveness of program efforts and continues into best practices and suggestions for enhanced citizen data collection, aka citizen science. The session ends with a real-life case study exploring best practices for engaging the public in long-term actions.

Moderator: Laura Thorne, Green Mission Ops

Presentations:

Public Involvement in Citizen Science: Recent Trends and Opportunities

Aubrey Gann, American Public University and Student Chapter of the NAEP

Citizen Science Through the Use of New Technologies and Paradigms for Environmental Project Success

Srihari Yamanoor, StellarTech Research, AquaNation

Taking Hanford to the People; Public Engagement for the Long Term

Ginger Wireman, Washington State Department of Ecology

SESSION #50: ELWHA RIVER RESTORATION “THE STORY AND STATUS OF THE LARGEST DAM REMOVAL PROJECT IN THE WORLD”

Room: 407

The Elwha Dam Removal Project is the largest project of its type in the world. Rising in the Olympic Mountains, the Elwha flows from glaciers to the Strait of Juan de Fuca in only 43 miles. For centuries the river supported large runs of many species of salmon, which in turn fed the surrounding ecosystem and was the mainstay of native peoples. In 1913 the Elwha River was blocked just five miles from its mouth by the first of two dams, neither of which provided fish passage. Over a century later the dams have now been removed and salmon are returning to the Elwha. The dam removal project has been a huge undertaking involving planners, scientists, and engineers from multiple agencies and organizations. Work continues today monitoring how the ecosystem is responding and adapting as the river finds a new balance. This panel presentation and discussion will include scientists and specialists who have been studying the Elwha River throughout the project. Panelists will describe the current state of the river and results of on-going monitoring and restoration efforts. Other topics will include some of the challenges encountered in coordinating among multiple agencies and where outcomes have and have not been as expected. The session will provide time for questions and discussion with conference attendees.

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Moderator: David Mattern, Parametrix

Panelists: Jeffrey Duda, U.S. Geological Survey
Roger Peters, U.S. Fish and Wildlife Service
Chris Curran, U.S. Geological Survey
Joe Anderson, Washington Department of Fish and Wildlife
Matt Beirne, Lower Elwha Klallam Tribe

3:15 P.M. – 3:30 P.M.

BREAK

3:30 P.M. – 5:00 P.M.

CONCURRENT SESSIONS

SESSION #51: THE PROBLEM OF WRITING THE FONSI ON THE SELECTED ALTERNATIVE

Room: 316

There are two or three and sometimes even more alternatives in an EA, followed by a period of public and agency review, usually, and then the FONSI is written to one of the alternatives. This procedure may be due to the false belief that the FONSI is to the EA as the ROD is to the EIS. The selected alternative has obviously been selected at some point prior to the writing of the FONSI. The problem is that the NEPA process by law is supposed to precede the decision, but in this scenario the decision is made in the midst of the NEPA process, before the final determination is made whether impacts are significant and thus whether an EIS should have been prepared. There is no requirement in NEPA for an EA. The EA was created by the NEPA-implementing regulations. There is no requirement in the NEPA-implementing regulations for a no-action alternative in an EA. Yet there is a no-action alternative in every EA, almost without exception, as imposed by the agencies themselves in their NEPA-implementing regulations. This creates an especially difficult problem if a FONSI cannot be written for the so-called no-action alternative, as may often be the case for environmental, health, and safety improvement projects. The problem is that the no-action alternative was never really an alternative at all. It could not be selected at the time of decision because it was not the subject of an EIS or a finding that an EIS is not necessary. The basic problem is that an agency tells one story in the EA to the effect that it is actively considering multiple alternative courses of action but then at the time of decision tells another story that the agency is procedurally prepared to take only that one course of action - the one to which the FONSI is directed, post facto. To avoid or remedy this problem an EA need not and perhaps should not include the so-called no-action alternative. The virtues of a single-alternative EA should be appreciated. Every action alternative that can be found to have no significant impact should be present in the FONSI for availability to the decisionmaker at the time of decision after the EA/FONSI are completed. Every alternative that cannot be found to have no significant impact should be dropped from consideration, but as for all alternatives dropped during the NEPA process, only dropped after a concise explanation is given. That explanation should appear somewhere in the EA/FONSI, similar to the way other issues that are nominated in the scoping process are dropped from serious consideration in the EA after giving reasons why.

Moderator: Owen Schmidt, Owen L Schmidt, LLC

Panelists: Owen Schmidt, Owen L Schmidt, LLC
Danny Reinke, U.S. Air Force

WEDNESDAY, MARCH 14

SESSION #52: BECOME A CERTIFIED ENVIRONMENTAL PROFESSIONAL (CEP)

Room: 315

For the last 38 years the Certified Environmental Professional (CEP) designation has been awarded to senior managers and other qualified individuals as a way to demonstrate their professional skills and high standards of conduct. This high achievement is administered by the Academy of Board Certified Environmental Professionals (ABCEP). ABCEP is a member of the Council of Engineering and Scientific Specialty Boards (CESB), which is the national organization responsible for accrediting engineering and technology certification programs. Certification credentials exceed requirements of the USEPA's definition of an Environmental Professional and conform to ASTM's requirements for conducting Phase I Environmental Site Evaluations. This session will outline the benefits of becoming a CEP, CEP Emeritus, and a CEP-In Training, the application process, the associated costs, and highlight personal stories from CEPs about their experience becoming a CEP.

Panelists: Tina McIntyre, ABCEP Board of Trustees
Liz Johnson, ABCEP President

SESSION #53: WETLANDS AND AQUATIC RESOURCES IN THE REGULATORY ENVIRONMENT

Room: 317

Laws governing wetlands and aquatic resources continue to evolve at the federal, state, and local level. In this round table, representatives from natural resource agencies responsible for regulating wetlands and aquatic resources in the Pacific Northwest will provide perspectives on the current regulatory environment, changes on the horizon, and critical factors to consider when permitting a project with impacts to these resources.

Moderator: Lisa Danielski, HDR, Inc.

Panelists: Lisa Danielski, HDR, Inc.
Ron Wilcox, U.S. Army Corps of Engineers
Jamie Bails, Washington Department of Fish & Wildlife
Rick Mraz, Washington Department of Ecology
Becky Holloway, HDR, Inc.

SESSION #54: ENVIRONMENTAL AND PUBLIC HEALTH

Room: 318

Public engagement is multifaceted and often includes not only efforts made by environmental programs but also by citizens themselves and often in conjunction. This session seeks to answer the questions how can we take advantage of enhanced citizen science and given all the new and increasingly accessible technology, how can we ensure if it is working?

The session begins with a study about the effectiveness of program efforts and continues into best practices and suggestions for enhanced citizen data collections, AKA citizen science. The session ends with a real-life case study exploring best practices for engaging the public in long-term success.

Moderator: Laura Thorne, Green Mission Ops

Presentations:

Children's Environmental Health

Bryan Fiedorczyk, USEPA Region 10

Engaging Stakeholders on Health Assessment Findings: Tandem Tools for Managing Risk

Kristina Mitchell, ERM

DINE-AROUND TACOMA

Tuesday, March 13, 6:00 PM – 10:00 PM

In addition to featuring several local eateries as part of the Dine-Around Tacoma event, one of the dinners will be held at the Forum, an historic building within several blocks of Hotel Murano. This dining venue will be part of the Historic Brewery Tour led by Historical Research Associates, Inc. (HRA).

Following the dinner at the Forum, the tour will cover other historic breweries in close vicinity such as the Odd Otter and Pacific Brewing.

Dinners for Dine-Around Tacoma are scheduled from 6:00 PM – 8:00 PM. The Historic Brewery Tour will continue after the dinners, and participants from other event locations will be able to participate if they desire.

If you plan to participate in the tour, please bring cash for beverage purchases.

DINE-AROUND OPTIONS:

Elemental Pizza (\$\$) Handmade, organic, and locally sourced toppings and wood-fired pizzas.

El Gaucho Steakhouse (\$\$\$\$) High-end, old-school steakhouse and bar offering an elegant, dimly lit setting with live music.

Pacific Grill (\$\$) New American grill offering seasonal seafood, grilled food, and fusion in a warm, brick-walled dining room.

THEKOI Japanese (\$\$) Upscale spot for traditional and fusion Japanese fare in a sleek, contemporary dining room.

Casco Antiguo (\$\$) Mexican classics prepared by hand with margaritas on tap.

Harmon Restaurant (\$\$) Local brewery and eatery in a warm lodge setting.

Historic Brewery Tour Starts at the Forum for dinner and brews, with post-dinner stops at the Odd Otter and Pacific Brewing.

WALKING TOURS

SELF-GUIDED TOURS OF THE ELWHA

The Elwha River on the Olympic Peninsula once produced large runs of huge salmon that supported generations of indigenous peoples and then provided a bounty for settlers. Two dams built nearly a century ago cut off all but five miles of river from the salmon and caused precipitous declines in their runs and changes throughout the watershed extending deep into the Olympic Mountains. Now the dams have been removed, the largest project of this type in the world, and the salmon are returning. For the 2018 annual conference NAEP will be providing information packets on the Elwha Dam Removal and nearby areas for self-guided tours. Information will include directions to sights on the Elwha, suggestions for where to stay and visit in the area, and sources of background information. The Elwha area is about a three-hour drive from Tacoma, WA and easily reached before or after the conference. Please visit Wikipedia or the National Park Service to learn more!

PORT OF TACOMA BOAT TOUR

Tuesday, March 13, 1:15 PM – 5:00 PM

Join the Port of Tacoma on “My Girl” the boat and Captain Paul for a tour of the Port’s facilities. This tour will feature a waterside tour of the 2,700-acre Port of Tacoma and the Northwest Seaport Alliance’s south harbor, the third-largest container gateway in North America. The Port of Tacoma’s real estate and marine cargo operations generate more than 29,000 jobs and nearly \$3 billion in economic activity. Combined, marine cargo operations at the ports of Seattle and Tacoma support 48,000 jobs and generate nearly \$4.3 billion in economic activity. Port staff and consultants will discuss port history, operations, environmental legacy/remediation, stormwater, and environmental review and permitting for port development and re-development projects.

Commencement Bay is part of Puget Sound, a large waterway carved out by glaciers over several Ice Ages and connected to the Pacific Ocean. The Puyallup River, which begins at Mount Rainier, flows into Commencement Bay, creating a large delta area, or tideflats. Over the past 150 years, mainly before environmental laws were created, the tideflats were filled to create industrial land to support the industrial revolution and war-time industries which contributed to pollution issues. In 1981, the Environmental Protection Agency listed Commencement Bay and the industrial nearshore/tideflats as one of 115 top-priority hazardous waste sites targeted for action under the initial national priority list of Superfund/Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Since then, extensive remediation and restoration projects have been implemented to restore Commencement Bay. Ongoing source control and stormwater laws have been implemented to prevent recontamination. Environmental review and permitting addresses nine Endangered Species Act-listed species and associated critical habitat, state fish and wildlife resources, cultural resources, shoreline and critical areas, fish and wetland mitigation, transportation, and other NEPA/SEPA topics. This tour will allow you to view much of this area and hear about on-going efforts to maintain a healthy working waterway. It will be both educational and enjoyable.

LINK LIGHT RAIL WALKING TOUR

Monday, March 12, 2018 1:15 PM – 5:00 PM

The Sound Transit Tacoma Link Extension is a 2.4 mile extension of the existing 1.6-mile Tacoma Link system. The project connects the downtown core to other growth centers, two major hospitals, and serves underserved neighborhoods. After a discussion of project background, including an overview of the Alternatives Analysis process that evaluated 11 corridors and how the preferred corridor was selected, the tour will lead participants on a tour through downtown to three or four locations of interest in the corridor.

Some potential topics of discussion include:

- How the Section 106 process addressed the reintroduction of rail in a historic district and the potential for excavating historic street car tracks.
- How Sound Transit partnered with the City of Tacoma to seek and fund the project and also applied for an additional two million in FTA funds for the City’s Links to Opportunity Program which will improve social and economic opportunity in this area.
- How frequent outreach events and meetings were used to keep residents and businesses engaged and build support for the project.
- Environmental issues that were addressed under NEPA/SEPA, included noise and vibration, visual, and transportation. Sound Transit worked with FTA to produce one environmental document to comply with both NEPA and SEPA.
- The staff will describe the status of the Project in terms of continued partnership with the City, design, permitting, and outreach.

The walking tour may use multiple modes of travel, including hopping on the existing Tacoma Link, Pierce Transit bus, and walking. Expected duration is 1.5 to 2.0 hours.

WALKING TOURS

THEA FOSS WATERWAY SUPERFUND SITE WALKING TOUR

Wednesday, March 14, 2018 10:00 AM – 11:30 AM

The Thea Foss Waterway, located within walking distance of the Tacoma Convention Center, is home of a multi-year and multifaceted Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or “Superfund” site. The City of Tacoma completed the cleanup of this site in 2006 in partnership with agencies, organizations, property owners, and other responsible parties. Cleanup activities included removing or capping in-place sediments contaminated by nearly a century of contamination. Several areas along the Thea Foss Waterway were restored to provide habitat for species that utilize this part of Commencement Bay. This tour will include a brief walk to and around the site with local experts. If you have the time while you are in Tacoma and are interested in learning more, make sure you visit the Foss Waterway Seaport Museum which pays homage to the maritime history of the surrounding area!

FILM SCREENING: “RETURN OF THE RIVER”

Wednesday, March 14, 2018 11:45 AM – 1:15 PM

“Return of the River” offers a story of hope and possibility amid grim environmental news. It is a film for our time: an invitation to consider crazy ideas that could transform the world for the better. It features an unlikely success story for environmental and cultural restoration. Fundamentally, the Elwha River in Washington State is a story about people and the land they inhabit. The film captures the tenacity of individuals who would not give up on a river, mirroring the tenacity of salmon headed upstream to spawn. It is a narrative with global ramifications, exploring the complex relationship between communities and the environment that sustains them. The camera soars over mountain headwaters, dives into schools of salmon, and captures turbines grinding to a halt; as the largest dam removal project in history begins. The film features people and perspectives on all sides of the Elwha debate, reflecting the many voices of the Elwha valley.

VISIT ELWHAFILM.COM FOR MORE INFORMATION! “Return to the River” will be held Wednesday at 11:45 am. Session 50 – Elwha River Restoration – will continue in room 407 after the 1:15 – 1:45 break.



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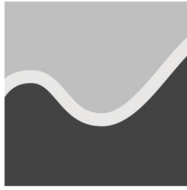
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Updated: February 16, 2018

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