

AECOM

Delivering a
better world

2022-2023

**Environmental
Webinar Series**

Innovative Environmental
Solutions in Our New World





EHS & Air



EHS Auditor Competency - A Fresh Look

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Bob Feldmann, CPEA, CHMM
bob.feldmann@aecom.com



Bill Bock, CPEA, STS
bill.bock@aecom.com

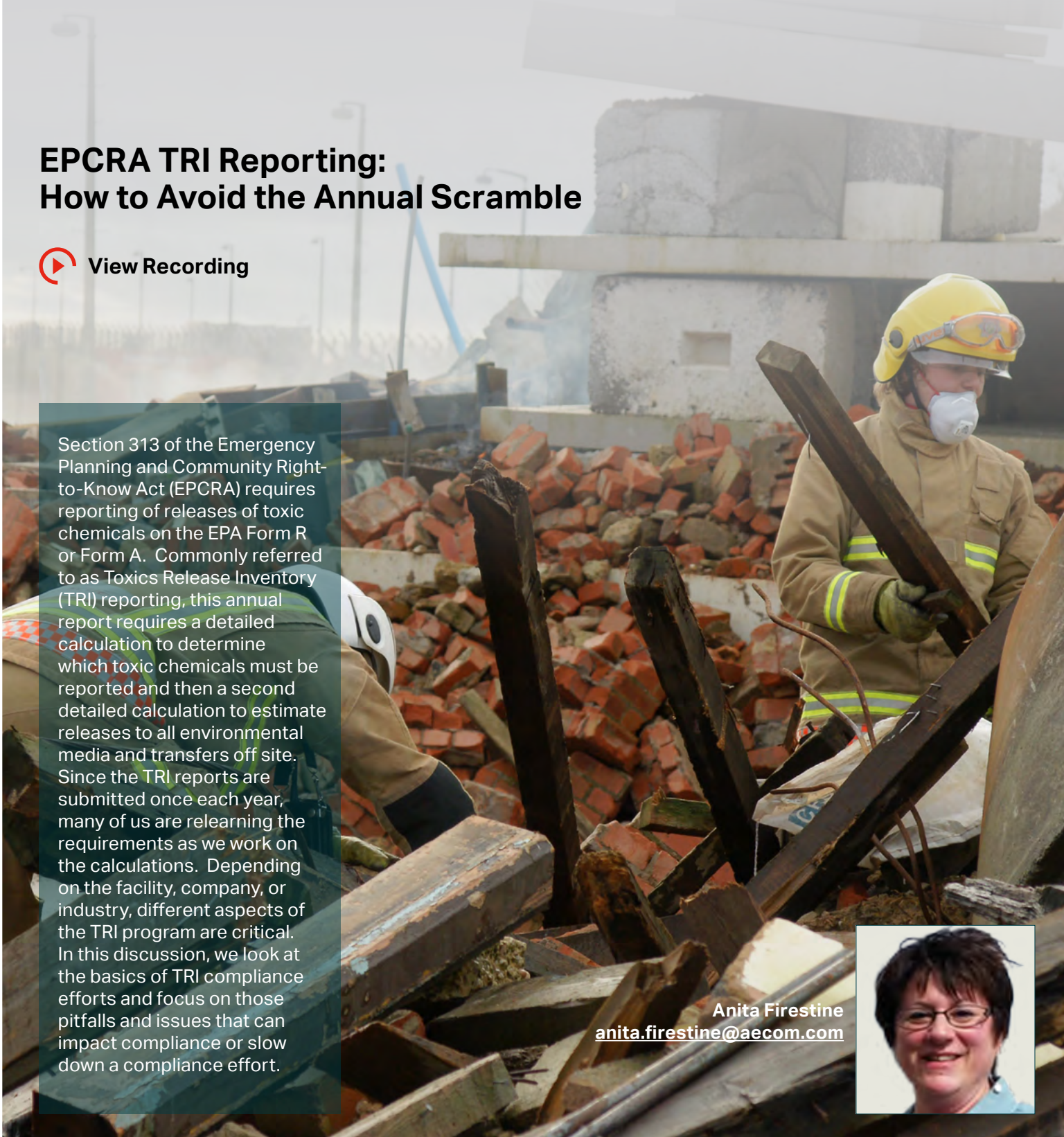


This webinar reviewed the qualities of a competent EHS auditor, including qualifications, skills, behaviors, and knowledge. We also looked at the value proposition and training aspects, as well as improvements and measurements of EHS auditor competency. Technology has been further introduced into various aspects of auditing and remote auditing became essential for many organizations over the past two years and likely to stay in some form. This webinar assists EHS directors/managers in the identification, selection, and continuing development of qualified and competent EHS auditors.

EPCRA TRI Reporting: How to Avoid the Annual Scramble

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Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) requires reporting of releases of toxic chemicals on the EPA Form R or Form A. Commonly referred to as Toxics Release Inventory (TRI) reporting, this annual report requires a detailed calculation to determine which toxic chemicals must be reported and then a second detailed calculation to estimate releases to all environmental media and transfers off site. Since the TRI reports are submitted once each year, many of us are relearning the requirements as we work on the calculations. Depending on the facility, company, or industry, different aspects of the TRI program are critical. In this discussion, we look at the basics of TRI compliance efforts and focus on those pitfalls and issues that can impact compliance or slow down a compliance effort.



Anita Firestine
anita.firestine@aecom.com



Mitigating Disease Spread in the Workplace: Lessons from the COVID-19 Pandemic

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Even before COVID-19, infectious diseases led to millions of worker absences every year. This webinar discusses disease-causing microbes and the best practices to mitigate their spread as we move into our new normal in a world with endemic COVID. Many workplaces are ending their remote working and requiring workers to return to in-office work. It is important to implement infectious disease policies and procedures to protect workers and include those policies in return-to-work plans.



Crystal Brillhart, PhD
crystal.brillhart@aecom.com

Process Safety Accidents & Root Causes

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This webinar provides a summary of five seemingly different accidents that happened in the past 4 years, and what the root cause investigations ultimately tell us about how to improve process safety in general and process hazard analyses specifically.



Gayle Nicoll, PhD, REP, ASP, CSP
gayle.nicoll@aecom.com



OSHA Heat Stress Standard – How Things are Heating Up

 [View Recording](#)



In September 2021 the Occupational Safety and Health Administration (OSHA) announced their intentions to enhance and expand measures to protect workers from hazards of extreme heat, indoors and out. This was followed by the initiation of the rulemaking process and an increased focus on heat stress hazards in the workplace by enforcement officials. Learn what you can do to prepare for this hotly anticipated regulatory change.



Michelle Coutu
michelle.coutu@aecom.com

Building a Cohesive Digital EHS/ESG Strategy

 [View Recording](#)

There is rapidly growing demand for data to support EHS compliance, auditing, internal reporting, sustainability, and now ESG. Larger, multi-national companies must also collect data from different business units across multiple geographies. Is your business prepared to respond to these demands using existing, non-integrated systems? This webinar will provide a roadmap of digital maturity, and show how to take the next step in defining a unified, integrated strategy that fits your people, culture, and business. Real client case studies will be presented to show emerging best practices.

Greg Stevens
greg.stevens@aecom.com



Rashmi Mantha
rashmi.mantha@aecom.com



Supply Chain Sustainability and Innovation Services

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AECOM provides supply chain sustainability and innovative services to a variety of clients globally. As the world continues to change and reflect, our teams have continued focusing on our clients by developing and maintaining reliable supply chain sustainability systems. Understanding and crafting the supply chain is an integral part of a critical Environment, Social and Governance (ESG) strategy. Measuring and tracking supply chain performance to achieve long-term sustainable development is also challenging.

In this informative webinar, we will be sharing examples of how our teams in Asia have brought innovation and tailor-made supply chain solutions to our clients over the past 17 years. With the right approach, teams are able to adapt to challenges, minimize the risks of supply chain stability, and add value to ESG performance.

Eveline Chen
eveline.chen@aecom.com



Jinting Liu
jinting.liu@aecom.com



The Next Level of ESG - Current and Upcoming EU Taxonomy Related Disclosure Requirements: Preparing the Long Run Towards Sustainability

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Marta Arenas Romasanta
marta.arenasromasanta@aecom.com



Andreas Kaps
andreas.kaps@aecom.com



At AECOM, we acknowledge the importance of our clients' commitments to progress on the way towards sustainable growth. The EU Taxonomy Regulation, a key part of the Renewed Sustainable Finance Strategy to redirect financial flows towards sustainable activities, is already in force and is mandatory in terms of transparency for companies under the scope of the Non-Financial Reporting Directive (NFRD). The EU Taxonomy defines the framework for classifying economic activities as environmentally sustainable. Companies under the scope of the NFRD are obliged to inform on their alignment with the EU Taxonomy criteria and related improving plans along with their non-

financial information each year. The number of companies reporting on Taxonomy is expected to increase due to the scope increase of the upcoming Corporate Sustainability Reporting Directive (CSRD) and the financial institutions' pressure, who in turn are also under disclosure obligations to comply with the EU Taxonomy Regulation.

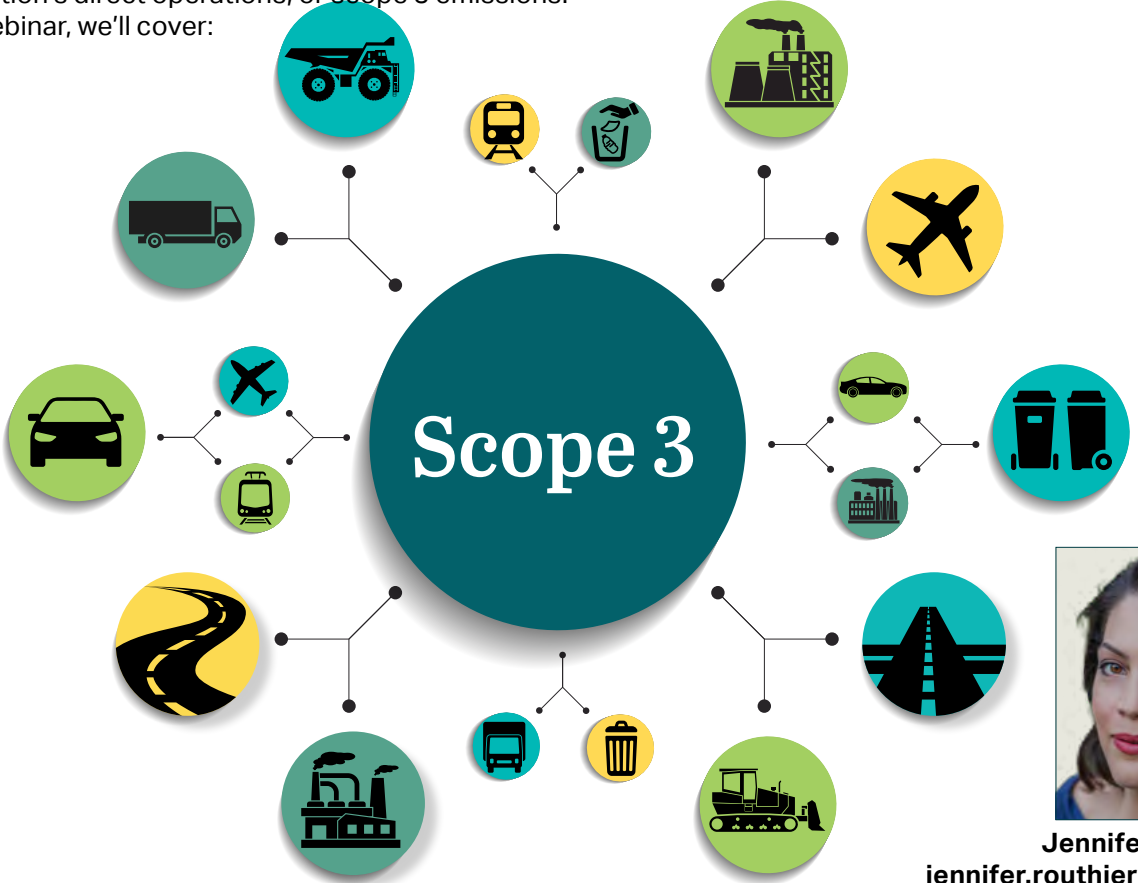
This webinar is directed specifically to non-financial undertakings although financial ones will benefit knowing what information they need to collate from their investees or companies under assessment if they all want to progress in their transition pathway.

What are Scope 3 Greenhouse Gas Emissions and Why Are They Important to Organizational Accounting and Decarbonization Strategy?

 View Recording

Organizations the world over are grappling with the complexity of defining their impact on greenhouse gas emissions, and how to define measures for decarbonization efforts across their business. While there is continued urgency and importance on defining reduction strategies for direct and indirect emissions associated with energy use, increasingly, attention is turning to greenhouse gas emissions associated with upstream and downstream activities of an organization's direct operations, or scope 3 emissions. In our webinar, we'll cover:

- Activities that are included in this category of accounting
- How an organization can better define where they have opportunity to influence activities to reduce greenhouse gases within supply chain and downstream product use
- Why scope 3 emissions may be important to your organization's decarbonization strategy



Jennifer Routhier, PE
jennifer.routhier@aecom.com



Environmental Permitting & Planning

Submarine Cable Routing: Navigating Competing Uses of the Ocean

 NO RECORDING AVAILABLE
Slides Available Upon Request

Building low-risk submarine cable routes requires a detailed study of the human uses of ocean space and the marine environment to account for a variety of external risks that could pose a threat to the cables. The presenter discusses the methodology and importance of performing detailed, desktop study constraint analyses prior to starting marine construction survey work. Deep-dive, front-end research can identify risks early on in a marine construction program, which helps to identify the optimal footprint and saves resources in the long run.



Onni Irish
onni.irish@aecom.com

Net Zero Accounting: Wholistic Digital Impact Assessment

 [View Recording](#)

Experts demonstrate, through the wholistic lens of PlanEngage, the federal Impact Assessment requirements for the accounting of GHGs (Net Zero) under the strategic assessment of climate change, air emissions, and constraints mapping.



Sarah Palmer
sarah.palmer@aecom.com



Jennifer Routhier, P.Eng.
jennifer.routhier@aecom.com



Rayna Carmichael
rayna.carmichael@aecom.com

Supporting Indigenomics through Partnerships

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Indigenomics is the study of modern Indigenous economic design and the development of Indigenous spaces across industries. Partnerships that support Indigenous companies build economic portfolios that consider both the potential opportunities and hurdles of Indigenous-led projects.

The Henvey Inlet First Nation and Pattern Canada partnership is an example of such an affiliation in the renewable energy sector. A 300 MW wind energy centre with a 104 KM transmission line was realized through this 10-year project. Consideration of many issues led to project success: jurisdictional, financial, cultural, and geographical. AECOM undertook the environmental assessments and environmental monitoring during construction and, importantly, integrated the community's Environmental Stewardship Regime with Canadian and provincial environmental regulations.

The Henvey Inlet Wind Energy Centre has been online since October 2019.

Jennifer Ashawasegai-Pereira
jennifer.ashawasegai@aecom.com



Frank Davis / Canada Country Head, Pattern Energy Group LP



Advancing Wildlife Permitting & Conservation with Quantitative Tools

 [View Recording](#)

Quantitative tools, such as statistics, modeling, and geospatial analysis, are integral to wildlife conservation. These tools are regularly applied in the permitting, assessment, and impact-avoidance processes that form the basis of much of AECOM's Environmental Permitting and Planning (EPP) project work.

In this webinar, ecology and wildlife permitting experts discuss diverse topics and describe examples of how they have applied their ecological and quantitative skillsets to create innovative solutions within a variety of projects. Discussion includes:

- Marine spatial planning for offshore energy development
- Applications of modeling tools used to predict and document impacts of land-based wind energy projects on eagles
- Geospatial modeling of California Condor movements to assess potential impacts of wind energy projects
- Evaluations of technologies designed to detect or deter birds and bats at wind turbines



Holly Goyert, PhD
holly.goyert@aecom.com



Michael Kuehn, PhD
michael.kuehn@aecom.com

Nature-based Solutions Understood

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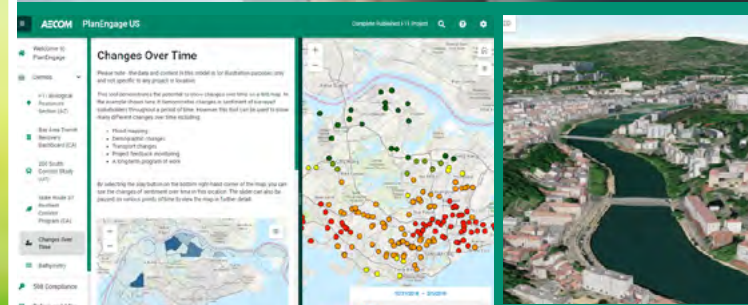
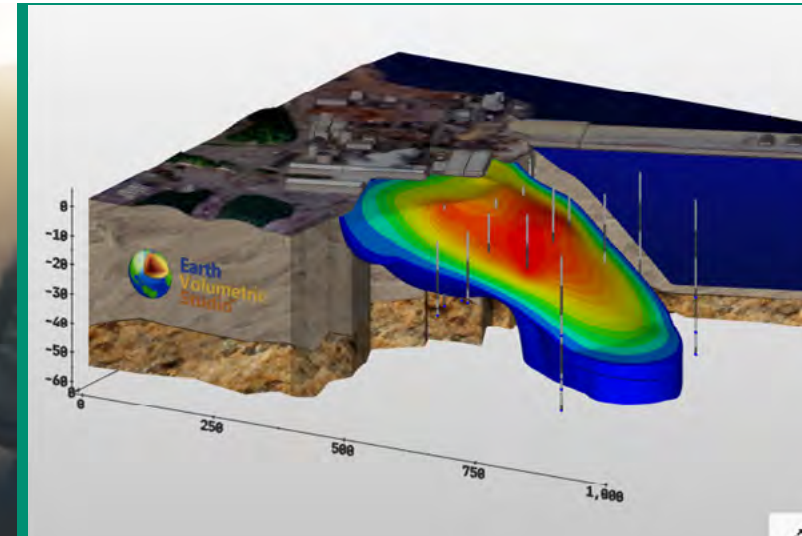
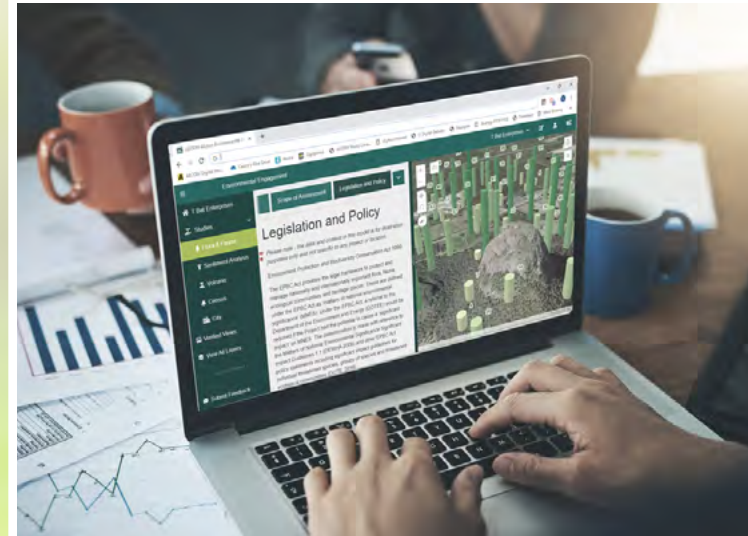
Join us to learn more about Nature-based Solutions (NbS) and AECOM's NbS pillars of practice in this exciting webinar. Nature-based Solutions are "actions to protect, sustainably manage, and restore natural and modified ecosystems that address societal challenges effectively and adaptively, simultaneously benefiting people and nature." – IUCN. At AECOM, we employ NbS to create a more resilient, biodiverse and sustainable world. In this webinar, we will discuss what NbS are, and how they are applied across the practice areas. We will explore how our work is aimed to foster growth towards more sustainable and resilient coastlines and waterfronts, apply nature-based features as a mode to progress physical resilience, evaluate natural capital, enhance ecosystem services and employ natural climate solutions as a pathway towards Net Zero.

Kristin Tremain Davis
kristin.tremaindavis@aecom.com



When is PlanEngage a Good Fit? Exploring Possibilities

 View Recording



Brian P. Kennedy, AICP
brian.kennedy2@aecom.com

plan·engage

This webinar will briefly describe PlanEngage and then focus on how listeners can evaluate what PlanEngage offers in specific situations. Brian will focus on existing and currently proposed uses of PlanEngage to illustrate how proposal managers and project managers have integrated PlanEngage into their delivery approach. Brian will present various ways to think about new opportunities and will share criteria for determining how well PlanEngage fits into a specific opportunity.

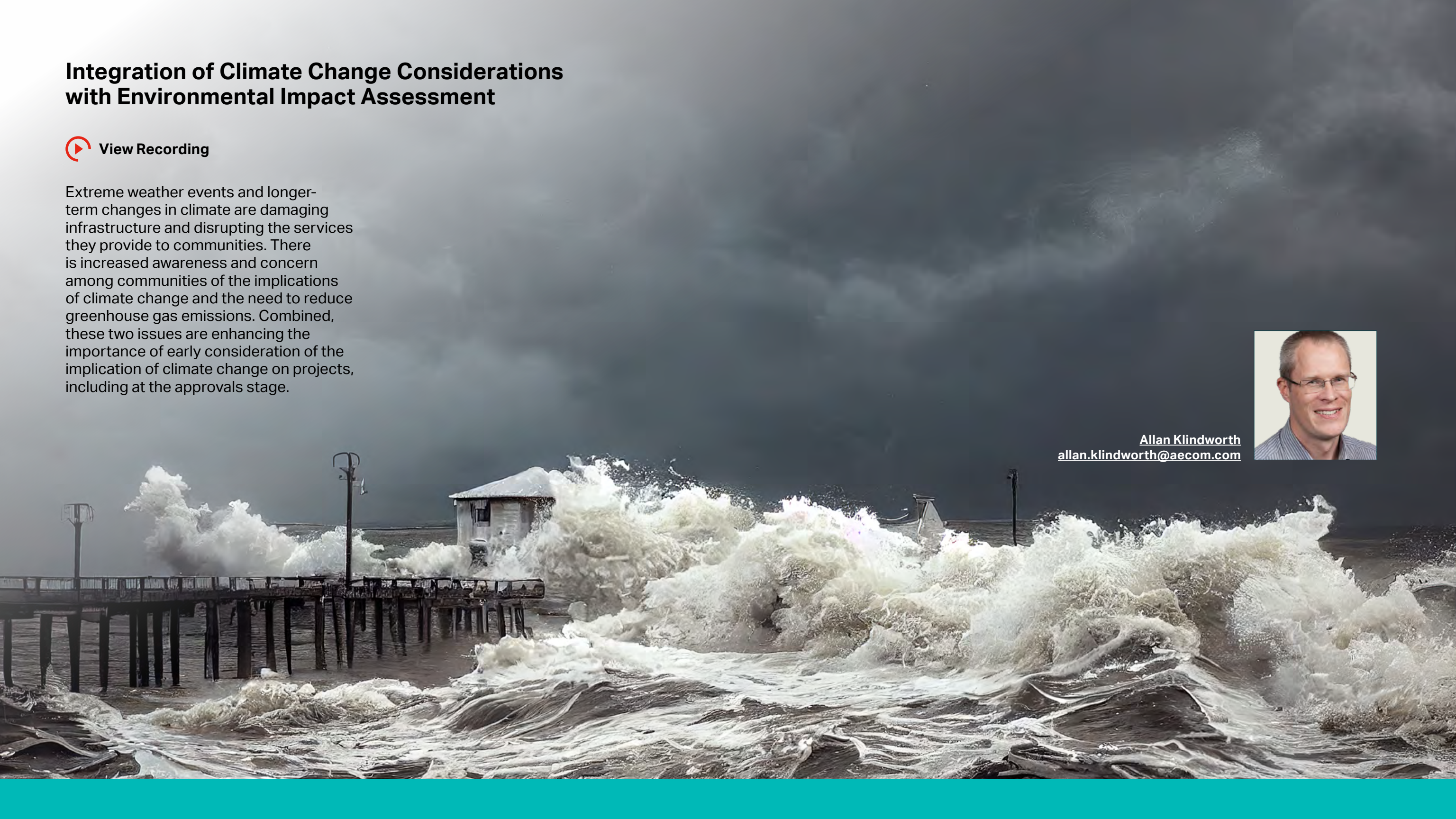
Integration of Climate Change Considerations with Environmental Impact Assessment

 [View Recording](#)

Extreme weather events and longer-term changes in climate are damaging infrastructure and disrupting the services they provide to communities. There is increased awareness and concern among communities of the implications of climate change and the need to reduce greenhouse gas emissions. Combined, these two issues are enhancing the importance of early consideration of the implication of climate change on projects, including at the approvals stage.



[Allan Klindworth](#)
allan.klindworth@aecom.com



Remediation

Accelerating US PFAS Regulations: Do they lead to a PFAS-free Destination?

 [View Recording](#)

The USEPA is hitting every milestone set in the PFAS Strategic Roadmap 2021. Myriad changes to guidance and directives keep coming, and AECOM will keep you up to speed.

With the latest changes to Federal drinking water, hazardous substance, and wastewater directives, it's clear that regulators are creating ways to get PFAS—or per- and polyfluoroalkyl substances—out of the environment.

There are more milestones ahead, but the latest requirements:

- increase the urgency to mitigate PFAS in water.
- create more certainty in treatment goals.

Potable water suppliers and wastewater managers seek PFAS solutions. AECOM specialists will explain PFAS regulations, existing and innovative solutions for PFAS treatment, and PFAS management in biosolids. Industry is advancing PFAS solutions rapidly, and AECOM can serve as your guide to a PFAS-free destination.



Rosa Gwinn, PhD, PG
rosa.gwinn@aecom.com



Christopher Curran, PE
chris.curran@aecom.com



Terry Goss, PE
terry.goss@aecom.com

PFAS US Regulations – The Latest Evolution

 [View Recording](#)

The US Environmental Protection Agency first turned its attention on per- and polyfluoroalkyl substances (PFAS) after 2001. In 2009, USEPA released non-enforceable Health Advisories (HAs) for PFOS and PFOA in drinking water. HAs were lowered in 2016, and lowered again and expanded to include PFBS and Gen-X in 2022.

Our clients across public and private sectors—and especially water purveyors—have awaited a National Primary Drinking Water Regulation for PFAS since the USEPA set that as a goal its 2021 PFAS Strategic Roadmap.

On March 14, 2023, a draft rule setting drinking water limits was released for 6 PFAS, and it diverges from past rules by limiting 4 of the PFAS as a mixture.

We will discuss the proposed rule, explaining its basis, how it applies, and how clients may navigate implementing PFAS solutions in response.



Rosa Gwinn, PhD, PG
rosa.gwinn@aecom.com



Kelly Vosnakis
kelly.vosnakis@aecom.com

Gazing into the Crystal Ball: PFAS Regulations in Our Future

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AECOM will discuss per- and polyfluoroalkyl substances (PFAS), a group of emerging contaminants that are receiving increased regulatory scrutiny because of their ubiquity, persistence, and toxicity. This presentation focuses on the current and evolving policies and regulations for PFAS in North America that drive investigations and treatment strategies for environmental media, drinking water, and wastewater. We share anticipated future regulatory developments, their timing and where the population may be affected by PFAS.

Rosa Gwinn, PhD, PG
rosa.gwinn@aecom.com



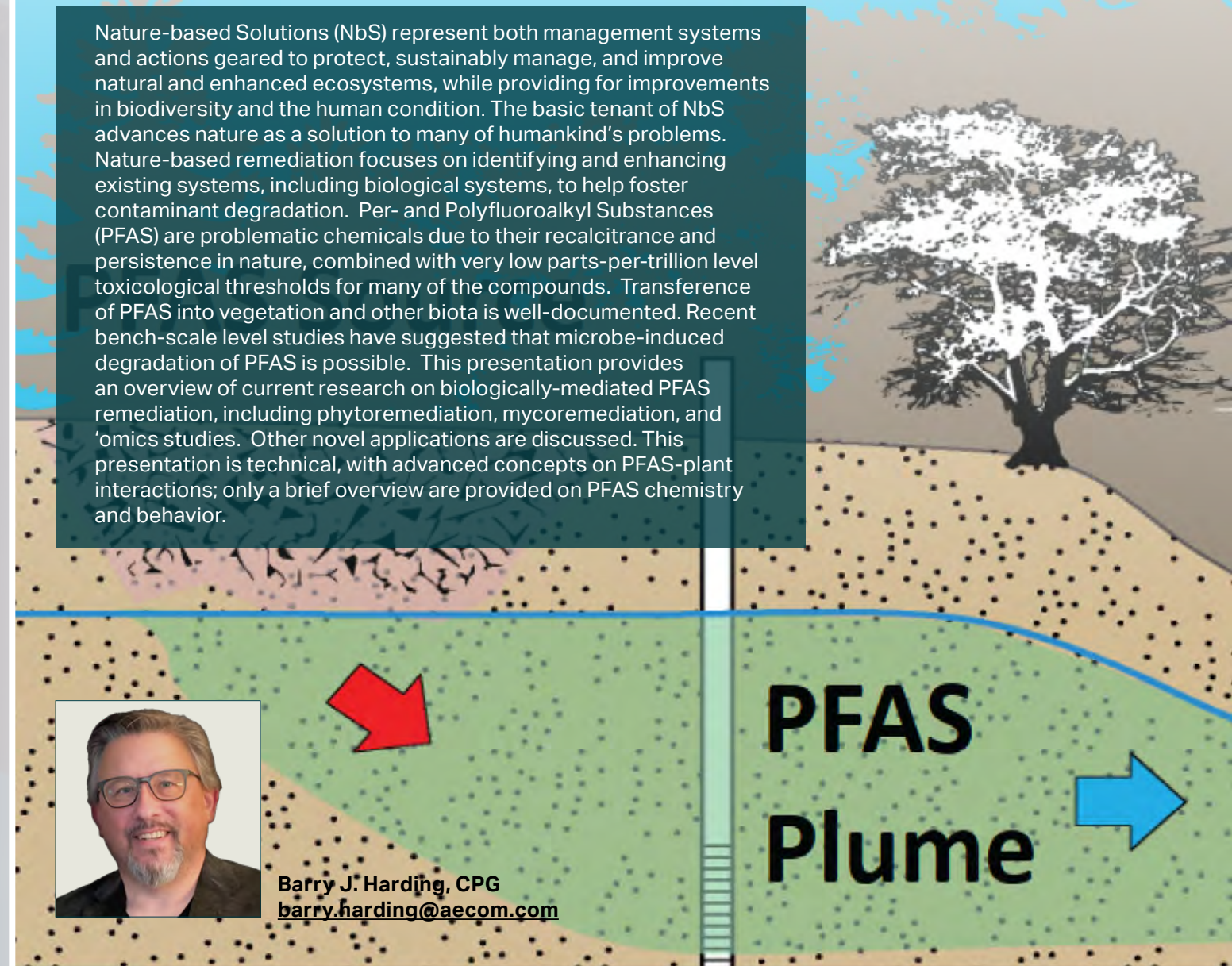
Are Nature-Based Solutions Possible for PFAS?

 [View Recording](#)

Nature-based Solutions (NbS) represent both management systems and actions geared to protect, sustainably manage, and improve natural and enhanced ecosystems, while providing for improvements in biodiversity and the human condition. The basic tenant of NbS advances nature as a solution to many of humankind's problems. Nature-based remediation focuses on identifying and enhancing existing systems, including biological systems, to help foster contaminant degradation. Per- and Polyfluoroalkyl Substances (PFAS) are problematic chemicals due to their recalcitrance and persistence in nature, combined with very low parts-per-trillion level toxicological thresholds for many of the compounds. Transference of PFAS into vegetation and other biota is well-documented. Recent bench-scale level studies have suggested that microbe-induced degradation of PFAS is possible. This presentation provides an overview of current research on biologically-mediated PFAS remediation, including phytoremediation, mycoremediation, and 'omics studies. Other novel applications are discussed. This presentation is technical, with advanced concepts on PFAS-plant interactions; only a brief overview are provided on PFAS chemistry and behavior.



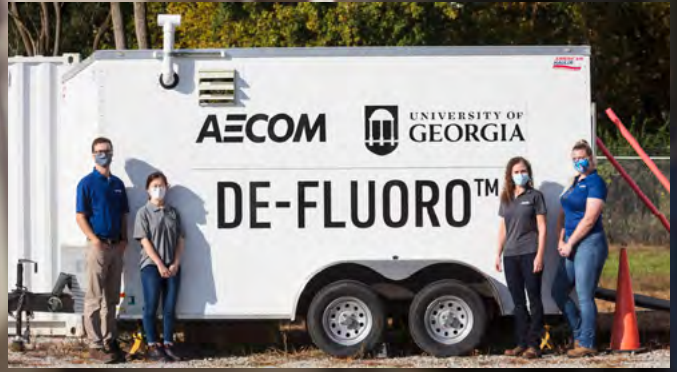
Barry J. Harding, CPG
barry.harding@aecom.com



Getting Ahead of the PFAS Dilemma: DE-FLUORO™ Destruction Technology Advances

 [View Recording](#)

This presentation shares how AECOM's DE-FLUORO™ technology for PFAS destruction has progressed substantially in the last two years. DE-FLUORO™ uses electrochemical oxidation (EO) to defluorinate PFAS in liquid wastes, and presents a mobile, flexible, and effective technology for destroying these 'forever chemicals.' Advancing beyond the pilot phase, we now have one full-scale field demonstration completed and a second underway. Learn how the DE-FLUORO™ team has used results from our real-world trials and pilot demonstrations to design and build full-scale systems for either batch or flow-through treatment.



Rebecca Mora
rebecca.mora@aecom.com

Global Perspectives and Industry Trends on Nature-based Solutions

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Nature-based Solutions refers to a management approach that uses natural processes to solve socio-economic environmental challenges. While various iterations have appeared throughout history, in different cultures, NBS as an ideology was not formally embraced until approximately 2013 (European Commission) and then in 2019, with additional global support and NBS initiatives from several nations. NBS typology is examined with a focus on concepts, approaches, and stakeholder engagement in context with societal benefits and evolving industry trends. A forthcoming webinar will examine various case studies and success stories.

Barry J. Harding, CPG
barry.harding@aecom.com

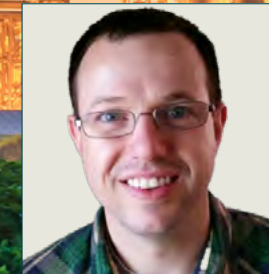


Natural Source Zone Depletion: Incorporating Nature-based Solutions into Petroleum Site Management

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Natural source zone depletion (NSZD) refers to the reduction in mass of hydrocarbons within light nonaqueous phase liquid (LNAPL) source zones through naturally occurring processes. Improved understanding of NSZD processes and refinement of measurement methods in recent years has shown that microbial activity within the LNAPL source zones is typically much higher than previously thought. As a result, NSZD measurements are more frequently included in the characterization and remediation of

LNAPL sites to achieve a variety of objectives, from evaluating the relative benefit of engineered remedies to mapping LNAPL distribution and demonstrating source zone stability. The presentation provides an overview of NSZD concepts and a description of current measurement methods. Case studies are presented to highlight potential strengths and weaknesses of different techniques, and to provide example scenarios where NSZD has been successfully incorporated into site management.



Jon Smith
jonathon.smith@aecom.com



Steven Gaito
steven.gaito@aecom.com



Exploring the World of Remediation Sustainability Tools

 [View Recording](#)

To support AECOM's commitment to Green and Sustainable Remediation, our professionals use a number of public, commercial, and in-house tools to identify and mitigate key impacts, facilitate discussions with stakeholders, and provide cost-effective remedies. This webinar will explore a range of remediation sustainability tools for assessing the environmental, social, and economic impacts of remediation projects and shows how we select the best tool for the job.

Maureen McBride
maureen.mcbride@aecom.com



Dr. Tom Stratham
tom.stratham@aecom.com



Brownfield Grants and Navigating Funding Options for Redeveloping Contaminated Sites

 **COMING SOON**

Matt Vander Eide
matt.vandereide@aecom.com



Shannon Flanagan
shannon.flanagan@aecom.com



Chance Moore
chance.moore@aecom.com



This presentation will focus on US EPA Brownfield grant and loan funds that eligible parties can utilize to stimulate economic and community development activities, including information about various grant types and uses, grant application strategies, and potential opportunities for leveraging with other federal grant programs by using AECOM's Fund Navigator. We will also share an overview of a completed Brownfield project that resulted in the redevelopment of a former industrial property into an urban nature preserve and local educational resource.



Energy

The Circular Economy – Being Green with Brown

 [View Recording](#)

In this webinar, we review the current U.S. political and economic drivers of the waste-to-energy economy. Discussion includes a review of prevalent technologies and the unique needs in reaching a sustainable energy future.



Daniel J. Huben, PE
daniel.huben@aecom.com

Hydrogen Fuel Production from Offshore Wind Energy (H2-OSW): Business Cases, Permitting, and Technology

 [View Recording](#)

While hydrogen production technology has already evolved to a point where it can be sited complementary to offshore wind projects, research and development to optimize safety, efficiency, and commercial readiness of such coupling are still in early stages.

Join this webinar to learn more about how:

- H2-OSW may occur along a broad spectrum of potential implementations
- Regional conditions (economic, environmental, regulatory) will influence

diverse business cases driving implementation approaches

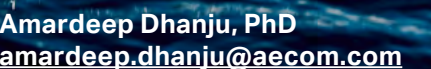
- Existing US federal regulations are generally able to accommodate H2-OSW already, though new considerations, interpretations, safety issues, and impacts will need to be considered.
- OSW may act as an integrator within a diversifying energy/resource economy in the transition toward net-zero goals.



Andrew Balser, PhD
andrew.balser@aecom.com



Amardeep Dhanju, PhD
amardeep.dhanju@aecom.com



Making Offshore Wind a Reality: a Local and Global Perspective

 View Recording

Offshore wind is set to play a major role in the #energytransition across Australia and New Zealand. Want to learn more about innovations and approaches we can leverage from global markets to improve the efficiency and sustainability of offshore wind development here?

This webinar will explore global emerging trends and learnings from industry best practices and offer insights into the challenges and technology advances on the horizon. We will also discuss the importance of a coordinated approach to Commonwealth and State approvals, how using a project design envelope for assessment provides project flexibility and a systematic approach to considering cumulative impacts.



Dawn MacDonald
dawn.macdonald@aecom.com



David Hyett
david.hyett@aecom.com

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