EN2017

Innovation and Partnership

AGENDA
2017 Exchange Network National Meeting
May 15-18, 2017
Philadelphia, Pennsylvania, and Live via Webcast
#EN2017

Working Draft as of May 3, 2017
Topics, Speakers, and Times are Subject to Change

Monday, May 15, 2017

4:30pm	**Registration**	**Ballroom Foyer**
5:30pm	**How to Write a Winning EN Grant Application** Salena Reynolds, *U.S. EPA* Wendy Blake-Coleman, *U.S. EPA*	**Bromley/Claypoole**
6:15pm	**EN/EE 101–Introduction to the Exchange Network and E-Enterprise for the Environment** Lynn Capuano, *Exchange Network Coordinator* Rob Willis, *Ross Strategic*	**Bromley/Claypoole**

Tuesday, May 16, 2017

7:45am	**Registration**	**Ballroom Foyer**
7:45am	**Continental Breakfast (provided)**	**Ballroom Foyer**

Opening General Session   **Ballroom and via Webcast**

8:30am   **EN2017 Welcome and Opening General Session Overview**
Victoria Phillips, EN2017 *Tri-Chair, Massachusetts Department of Environmental Protection*

8:40am   **Welcome to Philadelphia from EPA Region 3**
Cecil Rodrigues**,** *Acting Regional Administrator, U.S. EPA Region 3*

8:50am   **An Update on the E-Enterprise/Exchange Network Vision**
EELC Co-Chair Todd Parfitt, *ECOS Vice President and Director, Wyoming Department of Environmental Quality,* EELC Co-Chair Mike Flynn, *U.S. EPA*, and EELC Co-Chair Micco Emarthla, *Seneca-Cayuga Tribe*

9:05am   **Building a Results-Oriented Organization**
John Linc Stine, *Commissioner, Minnesota PCA, and ECOS President*

9:30am   **Communicating Our Success in Environmental Management**
Environmental agencies in the U.S. have made great strides in protecting human health and the environment. Despite this success, agencies often struggle to tell their stories in a compelling way. This panel will explore challenges and strategies for effective communication.

Moderator: Alexandra Dunn, *Executive Director, ECOS*
Panelists: Nancy Grantham, *U.S. EPA Public Affairs*
                    Ben Grumbles, *Maryland Department of the Environment*
                    Bruce Jones, *Northwest Indian Fisheries Commission*

10:30am   **Networking Break**   **Ballroom Foyer**

11:00am   **Panel: Using E-Business Technology to Drive Improvements in Environmental Management**
This panel discussion will explore partner agency experiences in applying technology to better support efforts to modernize key business functions. Panelists will discuss their implementation successes and challenges, highlight benefits to the regulated community and the public, and offer valuable lessons learned for other agencies.

Moderator: Todd Parfitt, *Director, Wyoming DEQ and ECOS Vice President*
Panelists: Victoria Phillips, *Massachusetts DEP*
                    Christine Wilson, *Arizona DEQ*

12:00pm   **Lunch Break**

Tuesday, May 16, 2017 (Continued)

Concurrent Sessions

1:30pm   Sessions 1, 2, and 3

Session 1: Combined Air Emissions Reporting	Session 2: Innovations in Regulatory Programs	Session 3: Innovative Partnerships
Ballroom B and via Webcast Moderators: Marc Houyoux, *U.S. EPA OAR* and Ben Way, *Wyoming DEQ* • **Panel Discussion on the Combined Air Emissions Reporting Project** (90 minutes) Tammy Manning, *North Carolina DEQ;* Joe Mangino, *U.S. EPA;* Angelina Feldman, *U.S. EPA OEI* EPA and State, Local and Tribal air agencies are collaborating to increase efficiency, improve quality and reduce burden for industry in the reporting of air emissions and associated data under the CAER project. This session will present on a variety of planning and implementation aspects, solutions and examples, and lessons learned.	**Ballroom C and via Webcast** Moderator: Amanda Pruzinsky, *U.S. EPA Region 3* • **ICIS Efficiency Improvements and ICIS-NPDES eReporting Progress by states** (60 min) Joe Carioti, *U.S. EPA OECA;* Eric Cleckler, *Alabama DEM;* Roy Chaudet, *U.S. EPA OEI* ICIS-NPDES is a system which tracks permit compliance and enforcement status of facilities regulated by the National Pollutant Discharge Elimination System under the Clean Water Act. Learn about current information, improvements, and lessons learned associated with NPDES eReporting implementation. • **SDWIS Prime Development Update & Launch of the Compliance Monitoring Data Portal (CMDP)** (30 min) Greg Fabian, *U.S. EPA OW*; Deric Teasley, *U.S. EPA OW* The CMDP facilitates lab and utility data submissions to drinking water primacy agencies. This system makes use of the Shared CROMERR Services (SCS). Labs and utilities can make use of APIs for data submission via CMDP. Attendees will receive a status update on the development of SDWIS Prime to inform planning efforts for a transition to CMDP and Prime.	**Ballroom D and via Webcast** Moderator: Frank Harjo, *Muscogee (Creek) Nation* • **Pesticide Label Matching App** Mardi Klevs, *U.S. EPA Region 5;* Dave Scott, *Office of Indiana State Chemist* The Pesticides Label Matching app modernizes and streamlines the decades-old process for conducting pesticide product label inspections. The app allows labels in the field to be examined for compliance, and makes pesticides label information easily accessible to inspectors, case development officers, registrants, and the public. • **eBeaches - QA** Bill Kramer, *U.S. EPA OW* The National Beach Program provides access to information provided by States, Tribes and Territories using the EPA website, BEACON. This presentation will demonstrate updates to BEACON and a secure web accessible Verification Tool the jurisdictions can use to submit and verify the completeness and accuracy of their submissions. • **Tribal Water Quality Exchange** Bruce Jones, *Northwest Indian Fisheries Commission* Tribal consortia are working to expand the breadth of participation in the Tribal Water Quality Exchange. Learn more about the results of recent training to help new partners share water quality monitoring data.

Tuesday, May 16, 2017 (Continued)

3:00pm   Networking Break   **Ballroom Foyer**

3:45pm   Sessions 4, 5, and 6

Session 4: Identity Management	Session 5: Efficiencies in Regulatory Programs	Session 6: Advanced Monitoring Technologies
Ballroom B and via Webcast Moderator: Connie Dwyer, *U.S. EPA OEI* • **E-Enterprise Integrated Identity Solution** Mary Montoya, *New Mexico Environment Department;* Chris Clark, *U.S. EPA OEI;* Mark Morell, *NM*; Charlie Fitch, *NM*; Ullas Joseph, *NM*; Steve Girt, *Wyoming DEQ*; Gary Haberstroh, *North Dakota DOH* E-Enterprise partners are seeking new ways to offer more seamless and efficient user experiences to customers that do business with environmental agencies. This presentation will explore efforts by states and EPA to build a trusted framework that allows users to securely traverse between state systems and the E-Enterprise portal without the need to re-authenticate. The partners will describe their development experience, future plans, and benefits of participating in this trusted framework. The team will also describe proposed improvements to the system that would reduce the burden for participation, enhance the user experience, and ensure security.	**Ballroom C and via Webcast** Moderator: Won Kim, *Oregon DEQ* • **e-Manifest** Stephen Donnelly, *U.S. EPA* This session will offer an update on EPA's work with states, industry and stakeholders to develop a national system that will facilitate the electronic transmission of the uniform manifest form and make the use of the manifest much more effective and convenient for users. • **Risk Management Plan Data Exchange** Mike Matsko, *New Jersey DEP* Risk Management Plan (RMP) data is collected at the Federal and State level for designated facilities. U.S. EPA and NJ DEP cooperated to build an Exchange Network solution that streamlines the reporting process, saving time for regulated facilities. • **SPeCS for SIPS** Ron Evans, EPA OAR; Robert Bielawa, NY DEC This presentation will feature efforts to develop an integrated electronic management system for State Implementation Plans (SIPs) for attaining National Ambient Air Quality Standards. With funding from E-Enterprise and EPA's Office of Air, the project team is developing the State Plan Electronic Collection System (SPeCS) for SIPs to support: 1) electronic reporting of submissions; 2) tracking of submissions with CAA requirements; and 3) informing the public and stakeholders on submission status.	**Ballroom D and via Webcast** Moderators: David Hindin, *U.S. EPA OECA* and Ben Grumbles*, Maryland MDE* • **Advanced Monitoring Technologies** Kristen Benedict, *U.S. EPA OAR;* David Hindin, *U.S. EPA OECA*; Ben Grumbles, Maryland MDE This session will cover a broad range of advanced monitoring topics including the collection, use, application, and evaluation of information from disparate and big data sets. Speakers will present joint EPA and State perspectives on the development of a third-party evaluation program for air and water sensors including details on proposed design, structure, cost, implementation, and partnerships of the plan. The session will also include recommendations on meta data needs and standards for collecting advanced monitoring data as well as mock ups for a beta website that provides context and visualization of real-time information from disparate data sets.

Tuesday, May 16, 2017 (Continued)

5:15pm   **Adjourn joint meeting sessions**

5:30pm   **Understanding the Facility Registry Service's New Data Model**   **Bromley/Claypoole**
Join EPA's Facility Registry team for an after-hours discussion that will describe the new data model for the Facility Registry System. The discussion will help establish some additional context for participation in subsequent sessions during the meeting.
Moderator: Matthew Kelly, *U.S. EPA OEI*

5:30pm   **Tribal Caucus**   **Boardroom**

Wednesday, May 17, 2017

7:45am   **Registration**   **Ballroom Foyer**

7:45am   **Continental Breakfast (provided)**   **Ballroom Foyer**

General Session   Ballroom and via Webcast

8:30am   **Welcome and General Session Overview**
Connie Dwyer, *EN2017 Tri-Chair, U.S. Environmental Protection Agency*

8:35am   **Updates from the E-Enterprise/Exchange Network Co-Chairs**
Andy Battin, *EE/EN Management Board Co-Chair and U.S. EPA OCFO*
Andy Putnam, *EE/EN Management Board Co-Chair and Colorado DPHE*
Matthew Leopard, *EE/EN Interoperability and Operations Team Co-Chair U.S. EPA OEI*
Chris Simmers, *EE/EN Interoperability and Operations Team Co-Chair and New Hampshire DOIT*

9:00am   **E-Enterprise Partner Profile Inventory**
Chris Simmers, *New Hampshire DOIT*

Several partner agencies are building an online Inventory to help EE/EN partners more easily collaborate and connect with one another. Learn more about the project's goals and progress and find out how you can contribute.

9:10am   **How Is Big Data Affecting Interactions with Government?**
Amy O'Connor, *Big Data Evangelist, Cloudera*

This presentation will explore the ways in which big data is impacting the relationship among the public, government, and industry.

9:50am   **Digital Transformation: The Next Industrial Revolution**
Kim Nelson, *Executive Director for State and Local Government Solutions at Microsoft*

Technology is playing an increasing role in everything we – governments, tribes, businesses and citizens – do. Emerging technologies are shaping the delivery of citizen services, disrupting citizen expectations, and providing the catalyst for government transformation. Digital Transformation can be considered the next industrial revolution, providing the catalyst for new government, tribal and business models, products, services and experiences by leveraging new cloud technologies previously considered out-of-reach to most of society.

10:30am   **Networking Break**   **Ballroom Foyer**

11:00am   **Harnessing APIs and Open Data to Create a More Agile, Efficient, and Effective Environmental Enterprise**
Mike Gilpin, *Gartner*
Dwane Young, *U.S. EPA OW*

APIs, open data, and other major trends in information technology are creating new opportunities to improve the business of environmental management. APIs are web services that allow data, content, and functionality to be created once and used for a myriad of different applications. They help support automation and help initiate and sustain new partnerships. This session will explore the benefits, challenges, and future direction of these technologies and showcase examples of how they are helping to shape the future of environmental management.

12:00pm   **Lunch Break**

Working Draft - Topics, Speakers, & Times Subject to Change

Wednesday, May 17, 2017 (Continued)

Concurrent Sessions

1:30pm   Sessions 7, 8, and 9

Session 7: Facility Data	Session 8: Innovations in Water Monitoring Data	Session 9: Going Mobile
Ballroom B and via Webcast Moderator: Susan Joan Smiley, *U.S. EPA OEI* • **Facility Integration -Challenges and Lessons Learned from One State's Perspective** (30 min) Joshua Kalfas, *Oklahoma DEQ* • **E-Enterprise Facility Phase 2 Effort** (60 min) Joshua Kalfas, *Oklahoma DEQ;* Ben Way, Wyoming *DEQ;* Susan Joan Smiley, *U.S. EPA, OEI;* Ron Evans, *U.S. EPA OAR* This session presents the initial outcomes and lessons learned from a team's efforts to develop a common understanding of "facility" information for States/Territories, Tribes, and EPA. The discussion will include lessons learned from pilot testing different uses of facility information (air emissions source data, master data management) and EPA's facility data model and related services. Learn about next steps and how your organization can leverage this facility information management work.	**Ballroom C and via Webcast** Moderator: Virginia Thompson, *U.S. EPA Region 3* • **Visualization of Upper Klamath Lake Water Quality Data** Anthony Falzone*, FlowWest* Learn how the Klamath Tribes used the Network to harness the power of their rich collection of water quality information in data visualization tools for ecosystem managers. • **Columbia River Coordinated Assessment Data Exchange (CAX)** Greg Wilke, *Pacific States Marine Fisheries Commission* CAX uses the Network's Virtual Exchange Service to share population-scale indicators of fish conservation status and trends amongst the Pacific Northwest states, tribes, federal agencies, and contractors. Learn more about the coordination efforts and technologies used to expand data sharing with the Exchange Network. • **Ambient Water Quality Monitoring System (AWQMS)** Fred Schenerman, *Maryland MDE*; Mark LeBaron, *Gold Systems, Inc.* Learn more about a partnership among Maryland, Utah, and Alaska to implement several crucial improvements to AWQMS.	**Ballroom D and via Webcast** Moderator: Thom Waller, *Ohio EPA* • **Tablet-Based GIS System for Streamlined Compliance Workflow** Whitney Oswald, *Utah DEQ* Using an EN Grant, Utah is developing a general platform architecture for tablet-based field collection of environmental data. This presentation will update attendees on the project's progress and explore how to share solutions identified to date. • **Washington State's EPCRA App** David Sage, *Washington Dept. of Ecology* This app enables access to chemical data and facility data in the field allowing responders to react more quickly and with more up to date information. • **Emergency Hound Mobile Application** Frank Harjo, *Muscogee (Creek) Nation* and Doug Timms, *OpenEnvironment* Launched with EN grant funding, this application allows emergency responders to plan for and respond to emergencies in the field even when disconnected from cellular networks. The app includes a geospatial viewer and can be updated in the field.

3:00pm   Networking Break   **Ballroom Foyer**

Wednesday, May 17, 2017 (Continued)

3:45pm   Sessions 10, 11, and 12

Session 10: Innovative Solutions	Session 11: Improving Water Quality Decisions	Session 12: Portals in Action
Ballroom B and via Webcast Moderator: Won Kim, *Oregon DEQ*	**Ballroom C and via Webcast** Moderator: Eric Cleckler, *Alabama DEM*	**Ballroom D and via Webcast** Moderator: Shana Harbour, *U.S. EPA OCFO*

Session 10: Innovative Solutions

- **Reduce (effort), Reuse (tools), Recycle (people) to Flow Consistent Radon Data**
Eric Brown, *Colorado DPHE*
Learn more about Colorado's efforts to work with partner states to develop consistent ways to collect and transfer radon data between private labs, state agencies, and federal partners.

- **Virginia Comprehensive Environmental Data System (CEDS)**
Herb Ward, *Virginia DEQ*
This talk will showcase Virginia's new system which integrates enterprise content management, geographic information systems, Oracle EBIZ financials, and CEDS data allowing a comprehensive view of facilities and permits across agency environmental media. This upgrade has improved internal data management responsiveness to data requests from citizens, and their capacity to share data with partners.

- **GreenBiz TRACKER**
Jo Fleming, *California Green Business Network*
Learn about an EN Grant-funded app to enhance the use of the California Green Business Program, which provides resources for small-to-medium sized businesses to help them transition to more environmentally-friendly practices. The tracker provides companies with the resources to easily manage and track their impacts.

Session 11: Improving Water Quality Decisions

- **Innovations for Improving Nutrient Monitoring**
Denice Shaw, *U.S. EPA ORD*
Our limited ability to monitor nutrients in water is a major impedance to better understanding the impacts of pollution reduction strategies. This presentation will describe efforts by EPA, USGS, NOAA and NIST to collaborate with numerous public and private partners to take an interdisciplinary approach to improve nutrient monitoring through development of sensors and enabling technologies.

- **Continuous Monitoring Data Pilot**
Dwane Young, *U.S. EPA OW*
Mike Kusmiesz, *New Jersey DEP*
Learn how this pilot project tested open standards for sharing continuous water monitoring data from sensors and how these standards may apply to other media types, including air data.

- **Assessment TMDL Tracking and Implementation System (ATTAINS)**
Dwane Young, *U.S. EPA OW*
Bill Puknat, *Montana DEQ*
EPA and states are collaborating to create a fully electronic process for submitting state 303(d) lists, Integrated Reporting information and TMDLs. This project uses the Exchange Network, the E-Enterprise Portal, and data publishing to integrate this information with other programs.

Session 12: Portals in Action

- **www.E-Enterprise.gov** Hope Kosier, *U.S. EPA OEI*; Chris Simmers, *New Hampshire DOIT*; Laura Letson, *U.S. EPA OEI*
The E-Enterprise Portal provides an important platform by which users can customize the types of information presented to them, find and select tools and other resources, and conduct transactions with U.S. EPA and soon states and tribes. This presentation will highlight new applications and functions within the Portal, such as Be Well Informed (a New Hampshire application for well water), new user interface and new ways for reporters to use the Portal. Attendees will also learn how to build applications that can be integrated into the Portal.

- **E-Enterprise Local Government Portal**
Sheryl Rosner, *U.S. EPA Region 1;* Hannah Humphrey, *Missouri DNR*
This unique state/federal/tribal partnership aims to consolidate and streamline access to key national, state, and tribal services and information to enable local governments to make better decisions, save staff time and money, and provide higher levels of environmental service to their citizens. This presentation will showcase the initial product and discuss plans for additional user feedback, interoperability between state and tribal resources and the LGP, and other future developments.

Wednesday, May 17, 2017 (Continued)

5:15pm   **Adjourn joint meeting sessions**

Thursday, May 18, 2017

| 7:45am | Registration | Ballroom Foyer |

| 7:45am | Continental Breakfast (provided) | Ballroom Foyer |

8:30am

Concurrent Discussion Sessions

Agile Design & Development	Shared Services	Facility Listening Session

Ballroom C
Moderator: Victoria Phillips, *Massachusetts DEP*
 	
• A roundtable discussion including:
  o Agile, a brief overview
  o Practical advice and lessons learned from practitioners
  o Implementation tips
	Ballroom D
	Moderator: Chuck Freeman, *U.S. EPA OEI*
	
	• Virtual Exchange Services Implementation experience
	• CROMERR Shared Services Use
	• Reusable Component Services: Demo and User Feedback Experience
	• Laws and Regulations Service concept and feedback
		Bromley
		Moderator: Facility Team Co-chairs
		
		• Feedback and Requirements for Facility Phase 3

ICIS-NPDES Listening Session	**Lean Approach to Process Improvement**	**Partner Profile Inventory**
Cook Moderator: Joe Carioti, *U.S. EPA OECA* • This session will provide a forum for providing feedback and ideas on the implementation of the NPDES Electronic Reporting Rule.	**Ballroom B** Moderator: Chet Wayland, *U.S. EPA OAR* • Overview of the EPA Lean Action Board, priorities, and projects • Successful Lean efforts from the state perspective • Linkages between Lean and E-Enterprise	**Claypoole** Moderator: Chris Simmers, *New Hampshire DOIT* • This session will feature an opportunity to learn more about the E-Enterprise Partner Inventory and provide feedback to ensure that it is a useful tool for your organization.

Thursday, May 18, 2017 (continued)

10:00am   **Break**

General Session   Ballroom and via Webcast

10:15am   **Panel: Shared Services across the Enterprise**
Partners across the Environmental Enterprise can deliver environmental management more effectively and efficiently by cooperatively developing tools and consolidating commonly used functions and offering them as Shared Services. This panel will explore the ways in which E-Enterprise partners are using available shared services to benefit all stakeholders in the environmental enterprise. Building on recent work sponsored by the EE/EN governance, the panelists will also explore approaches to meeting the challenge of jointly governing, financing, and operating Shared Services across the enterprise.

Facilitators:
Andy Putnam, *Colorado DPHE*
Todd Holderman, *U.S. EPA OEI*

11:15am   **EN2017 Wrap-up and EN2018 Save-the-Date**
Lynn Capuano, *Exchange Network Coordinator*

11:30am   **Adjourn**