



E C O S

Environmental Council of the States

Annual Report **For Fiscal Year 2016** (October 1, 2015—September 30, 2016)



The Environmental Council of the States

Officers on September 30, 2016

John Linc Stine

Commissioner

Minnesota Pollution Control Agency

President

Todd Parfitt

Director

Wyoming Department of Environmental Quality

Vice President

Becky Keogh

Director

Arkansas Department of Environmental Quality

Secretary-Treasurer

Martha Rudolph

Director of Environmental Programs

Colorado Department of Public Health and Environment

Past President

Mission Statement

The purpose of ECOS is to improve the capability of state environmental agencies and their leaders to protect and improve human health and the environment of the United States of America.

Our belief is that state government agencies are the keys to delivering environmental protection afforded by both federal and state law. Further, ECOS provides leadership on environmental issues of national importance, and plays a critical role in facilitating a quality relationship among and between Federal and State agencies. To fulfill its mission, ECOS will:

- Articulate, advocate, preserve, and champion the role of the states in environmental management; and
- Provide for the exchange of ideas, views, and experiences among states and with others; and
- Foster cooperation and coordination in environmental management; and
- Articulate state positions to Congress, federal agencies, and the public on environmental issues.

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Photo: Alexandra Dunn

ECOS Officers met with U.S. EPA leadership throughout the year. Left to right: ECOS Secretary-Treasurer Todd Parfitt (WY), U.S. EPA Administrator Gina McCarthy, U.S. EPA Acting Deputy Administrator Stan Meiburg, ECOS Vice President John Stine (MN), ECOS President Martha Rudolph (CO), and ECOS Past President Bob Martineau (TN). April 2016.

Executive Committee

As of September 30, 2016

Officers

Name	Title
John Linc Stine, Minnesota	President
Todd Parfitt, Wyoming	Vice President
Becky Keogh, Arkansas	Secretary-Treasurer
Martha Rudolph, Colorado	Past President

Committee Representatives

Committee	Chair
Air	Bryan Shaw, Texas
Compliance	Vacant
Cross-Media	Deb Markowitz, Vermont
Innovation	John Mitchell, Kansas
Planning	William Ehm, Iowa
Waste	Todd Parfitt, Wyoming
Water	Sara Parker Pauley, Missouri
ERIS	David Paylor, Virginia

Regional Representatives

Region	Representative
I	Rob Klee, Connecticut
II	Basil Seggos, New York
III	Ben Grumbles, Maryland
IV	Myra Reece, South Carolina
V	Craig Butler, Ohio
VI	Bryan Shaw, Texas
VII	Jim Macy, Nebraska
VIII	David Glatt, North Dakota
IX	Matthew Rodriguez, California
X	Larry Hartig, Alaska
Islands	Keith Kawaoka, Hawaii



Photo: Alexandra Dunn

Todd Parfitt (WY) and Martha Rudolph (CO) at U.S. EPA Headquarters for an ECOS-EPA leadership meeting. July 2016.

About ECOS

History

ECOS is the national, non-profit, non-partisan association of state and territorial environmental agency leaders. The primary purpose of ECOS is to share information among the state and territorial environmental commissioners. A secondary, but important, purpose is engagement in the development and implementation of environmental rules, procedures, policies, and statutes.

ECOS was established in December 1993 at a meeting of approximately 20 states in Phoenix, Arizona. Initially operated out of the state office of the first association president, ECOS later retained a Washington, DC firm to represent its interests. In June of 1994, ECOS was incorporated in Delaware as a 501(c)6 corporation. Near the end of 1994, a decision was made to transition to a more traditional organization style with a permanent staff. The first full-time executive director began work on March 1, 1995, and the first Washington, DC office was opened on May 1, 1995. ECOS created a 501(c)3 education and research subsidiary, the Environmental Research Institute of the States, in 1997.

Leadership

The state and territorial environmental agency leaders serve as ECOS' leadership. ECOS Officers are elected by the membership at the Fall Meeting each year, or as necessary when vacancies occur, committee chairs are appointed by the ECOS President and vice chairs are elected by the ECOS membership. Regional representatives to the Executive Committee are selected by the members in that region. The Executive Committee is made up of the officers, committee chairs, regional representatives, and the

ERIS President, and meets four times a year by phone and in person to address broad policy issues, as well as organizational governance matters. Email communication with the Executive Committee is used to keep members engaged between meetings and calls.

Structure

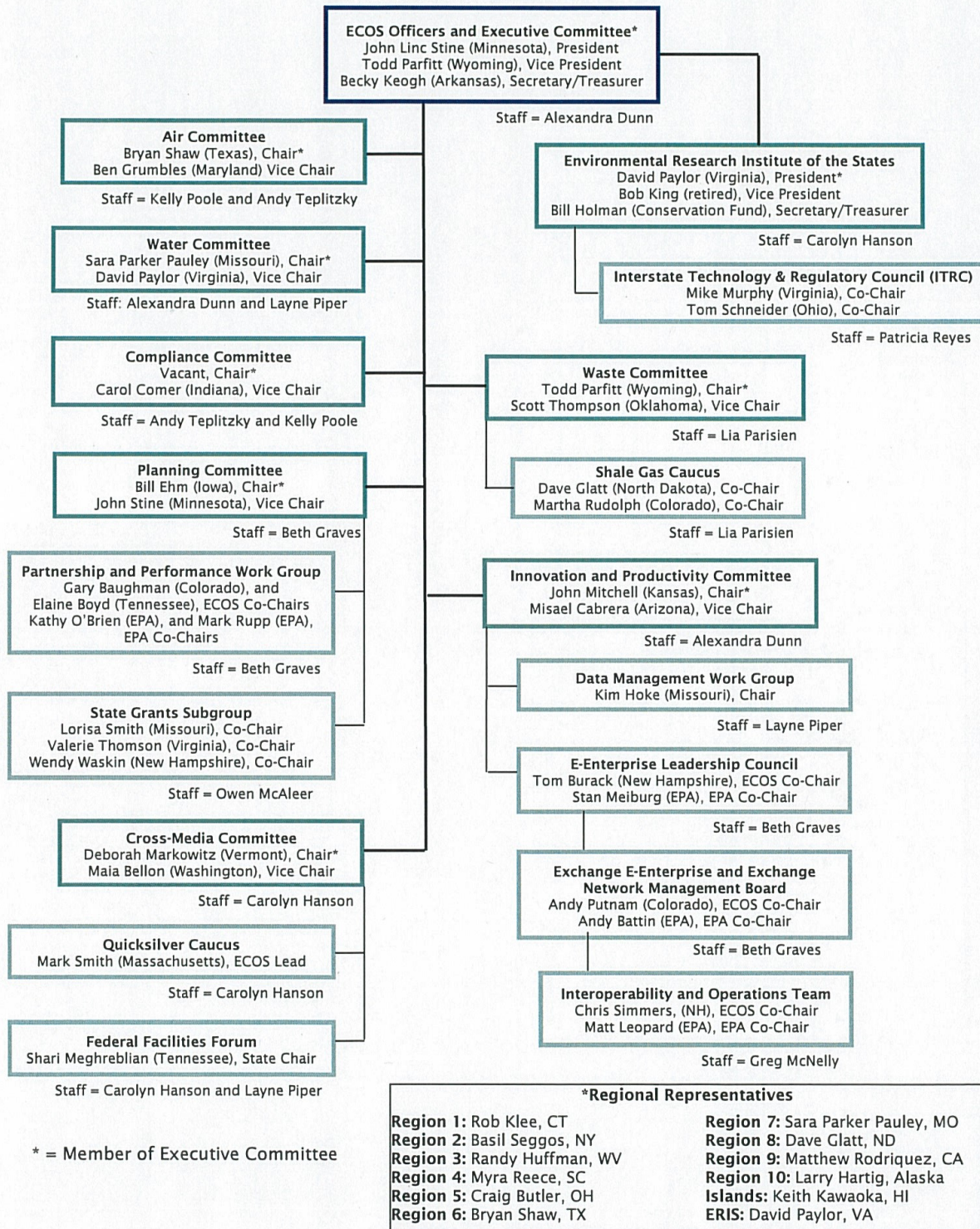
ECOS is a membership-driven organization with members working through standing committees, subcommittees, workgroups, and forums. The staff provides administrative, research, and logistical support to the committees and other groups. The seven standing committees are permanent. Subcommittees focus on specific issues within a broader topic of a committee and report directly to their respective committees. Forums are long-term associations including both ECOS and non-ECOS members and are co-chaired by ECOS members and representatives of the other participants. They were designed to provide a channel of communication between state and federal agencies but occasionally advance a single issue that crosses levels of government, such as mercury. Workgroups are time-limited bodies designed to deal with a specific issue that may or may not include participants other than ECOS members.

Policy

ECOS policy resolutions are adopted by the membership by vote at the Spring and Fall meetings. These resolutions are used to guide ECOS' efforts. ECOS' committees, workgroups, and forums often develop comments and provide other input on draft rules, policies, and guidance of federal agencies, in consultation with the Executive Committee and Officers.

ECOS Leadership and Committee Organization

as of September 2016



Year In Review October 2015—September 2016

Setting Foundations for the Future

The development of a five-year strategic plan and publication of a paper for the 2017 Presidential election and later the transition team, set ECOS on a strong course for the future in FY2016. The Strategic Plan documented priorities of being effective, inclusive, respectful, and sustainable, setting ECOS up to continue being a productive, relevant, and dynamic organization. *Priority Areas for a Time of Political Transition: 2016-2017* reached out to new federal leadership to build the foundation for a productive relationship based on the principle of cooperative federalism. These two documents remain important for ECOS as it looks to the future.

The focus ahead was not limited to major organizational policy documents, but also was found throughout the organization's activities. In signing a Memorandum of Agreement on Environmental Health and Collaboration with U.S. EPA and the Association of State and Territorial Health Officials, ECOS worked to build stronger relationships across state and federal agencies to be prepared for future environmental and public health challenges. In legislative efforts, such as engagement in reform of the Toxics Substances Control Act (TSCA), ECOS ensured state concerns were considered as Congress laid the groundwork for the future of chemical management. Additionally, discussions around topics like crisis communications and crisis response helped ECOS members be ready to address the next emergency, while ECOS' annual innovation awards highlighted the forward-looking work of the states.



ECOS Members at the 2016 ECOS Fall Meeting in Wheeling, West Virginia. September 2016.



Matt Rodriguez (CA) discusses community and environmental health protection on a panel with Marty Suuberg (MA), Chuck Carr Brown (LA), and Myra Reece (SC) at the ECOS Fall Meeting. September 2016.

Membership

In FY2016, 46 states and the District of Columbia were dues-paying members of ECOS.

Membership Meetings

Two general membership meetings and two STEP meetings were held in FY16.

The Spring Meeting was held in Nashville, Tennessee on April 10-13, 2016 with a theme, *Pathways to Partnership: Advancing Environmental Protection*. With a focus of connecting to public health, the meeting included a panel of speakers on health and environment connections, the signing of a Memorandum of Agreement on environmental health with ASTHO and EPA, and a keynote speech about how disease outbreaks influenced early environmental health efforts. Other keynote sessions gave members the chance to interact with EPA Administrator Gina McCarthy and to learn about crisis communication.

ECOS members gathered in Wheeling, West Virginia on September 26-28, 2016 for the Fall Meeting. With a theme of *Strengthening our Shared Environmental Future*, the focus was on working with various partners on innovative solutions and emerging issues. Panel sessions explored community and public health issues, environment and natural resources challenges, implementing the TSCA amendments, and trends in enforcement. Keynotes by Mark Tercek, President and CEO of The Nature Conservancy, and Charles Patton, President and COO of Appalachian Power



Photo: Alexandra Dunn

ECOS President Martha Rudolph (CO) and former Colorado Governor Bill Ritter, Jr. discuss his new book on energy during a dialogue at the 2016 STEP Meeting. July 2016.

helped connect state environmental agency work to natural resources and energy.

STEP Meetings

On October 21, 2015, states came together with industry and stakeholders in Washington, DC to discuss air issues at the State Environmental Protection (STEP) Meeting on *Achieving Air Quality: The Clean Power Plan and More*. Meeting highlights included a keynote by former EPA Administrator William K. Reilly; a discussion between Bryan Shaw, Chairman of Texas Commission on Environmental Quality and Matthew Rodriguez, Secretary of California EPA that highlighted their differing viewpoints on the Clean Power Plan; and a closing panel of ECOS members discussing their states' responses to the Clean Power Plan.

With a theme of *Making Connections: Water, Air, and Energy Innovation*, the STEP Meeting on July 21, 2016 provided the opportunity to talk about intersections between water, air, and energy in current environmental work. Panels explored water

“The success of the state-federal environmental system depends in part on our collective ability to demonstrate how our nation’s investment in environmental protection is delivering tangible results.”

- ECOS *Priorities for a Time of Political Transition*

use and air emissions related to shale gas extraction; water and energy infrastructure challenges; developments in clean energy; and state innovation in addressing all of these issues.

Strategic Plan

Over the Fall of 2015 and Winter of 2016, the ECOS Executive Committee developed a five-year strategic plan that was adopted by the membership at the 2016 Spring Meeting. The strategic plan



Sarah Pauley (MO) listens as Craig Butler (OH) speaks about water issues at an ECOS-EPA Leadership Meeting in Washington, DC. July 2016.

Photo: U.S. EPA



Photo: Patricia Reyes

Innovation and Productivity Committee Chair John Mitchell (KS) (left) and Vice Chair Misael Cabrera (AZ) (right) presented state innovation awards to David Paylor for Virginia Department of Environmental Quality, Maia Bellon for Washington Department of Ecology, and Brian Van Wye for the District of Columbia Department of the Environment. September 2016.

identified five goal areas:

1. Effectiveness of State Environmental Agency Leadership: ECOS facilitates peer support and learning among state environmental agency leadership.
2. Effectiveness of State Environmental Agencies: States' environmental management capacity is supported by ECOS.
3. ECOS and States' Relationship with Federal Agencies: ECOS invests in assuring a constructive relationship with federal agency partners.
4. ECOS as a Voice in Environmental Policy: ECOS is a trusted source of states' perspectives developed through principles of openness, respectful dialogue, scientific rigor, and pragmatic experience.
5. ECOS Organizational Performance: ECOS is an effective, high-performing organization.

Some 2016 Numbers

- 45 editions of *ECOSWire*
- 1 ECOS Strategic Plan for 2016-2020
- 1 political transition document
- 16 policy resolutions
- 2 membership meetings
- 14 press releases
- 1 new online inventory of business process improvements

Through the plan ECOS affirmed its commitment to provide the highest level of service in support of its members. The plan will be used to guide ECOS' actions and will be adapted as necessary.

Policy Transition

In anticipation of the Presidential transition in January 2017, ECOS prepared the paper, *Priority Areas for a*

Time of Political Transition, to highlight key issues for the new administration. The Transition Paper identified seven key areas to maintain state-federal relationships and to protect human health and the environment. The seven areas are: state and federal agencies must collaborate in the implementation of state-delegated environmental programs; environmental quality is inextricably linked to public health; the success of the state-federal environmental system depends in part on our ability to demonstrate tangible results; federal investment is critical to state implementation of federal environmental programs; federal collaboration with states around our drinking water and wastewater systems is critical; joint environmental governance is key to an effective system of environmental protection; and states must be included as the national conversation around energy continues.

Budget

When the FY16 EPA budget included a new \$21 million multipurpose categorical state grant, ECOS worked with EPA to ensure states were given flexibility in the use of these funds. ECOS also reached out to Congress on behalf of the states to thank them for providing this new funding.

ECOS also engaged with the administration and Congress on the FY17 budget. After providing early input on the FY17 budget to EPA over the spring and summer of 2015, when the President's budget proposal was released in February 2016, ECOS was pleased to see an increase in state funding included. ECOS submitted budget testimony on the FY17 budget to both the House and Senate Appropriations Committee's Subcommittee on Interior, Environment and Related Agencies. The testimony highlighted state need for federal funding, the need for flexibility in the use of that funding, and the value of increased funding for E-Enterprise for the Environment. ECOS also sent letters to the House and Senate along with several other state water-related associations highlighting state water funding needs.



ASTHO President Ed Ehlinger (MN), EPA Acting Deputy Administrator Stan Meiburg, and ECOS President Martha Rudolph (CO) shake hands during a signing ceremony for an ECOS-ASTHO-EPA Memorandum of Agreement on Environmental Health. April 2016.

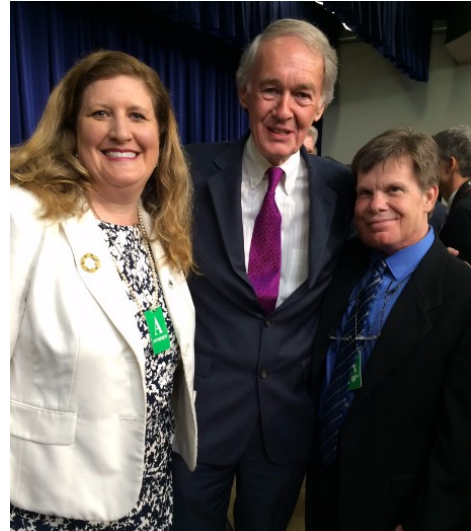


Photo: Alexandra Dunn

ECOS Executive Director Alexandra Dunn stands with Senator Markey (MA), and Ken Zarker (WA) at the signing of the Lautenberg Chemical Safety for the 21st Century Act. June 2016.

Photo: U.S. EPA

TSCA Reform

As TSCA reform negotiations moved forward in Congress during the first half of FY17, ECOS partnered with the National Governors Association, National Association of State and Territorial Health Officials, and the National Conference of State Legislatures to stress the importance of strengthening TSCA while preserving the ability of states to act when chemicals present serious health and safety concerns. ECOS also worked with Massachusetts Toxics Use Reduction Institute to share information with states on how different TSCA reform bills addressed state concerns.

After the Lautenberg Chemical Safety for the 21st Century Act was passed by Congress and signed into law, ECOS ensured continuing state engagement as EPA began to implement the reforms to TSCA. This work included sharing information on how the final bill addressed various state issues, commenting on early implementation rules, and holding a session at the ECOS 2016 Fall Meeting on TSCA reform implementation.

Resolutions

The following resolutions were adopted, continued, or renewed during fiscal year 2016.

- 98-9 U.S. EPA Enforcement in Delegated States
- 01-6 Exceptions to Protection from Disclosure of Confidential Information under the Toxic Substances Control Act
- 04-4 Promotion of Pollution Prevention and Sustainability
- 07-5 To Support and Promote the Use of Business Process Improvement Techniques in State and U.S. EPA Programs
- 07-8 On the Need to Ensure that Up-to-Date, Protective National Ambient Air Quality Standards and Implementation Rules are Timely Promulgated and Implemented
- 08-4 In Support of Legislation on the Regulation of Coal Combustion Residuals
- 10-1 National Sustainable Materials Management
- 10-3 Cleanup Budgets for the Nuclear Weapons Complex
- 10-5 Improving Cooperative Management of Programs to Reduce Nonpoint Source Pollution
- 10-7 Retention of Clean Air Act Waiver of California Emissions Standards and State Adoption of California Standards
- 13-2 The Need for Reform and State Participation in EPA's Consent Decrees which Settle Citizen Suits
- 13-4 Environmental Performance and Outcomes Data and Metrics

Photo :U.S. EPA



Dick Pedersen (OR) speaks about state issues during an ECOS-EPA Leadership Meeting. Deb Markowitz (VT) looks on. October 2015.



Members of the E-Enterprise Executive Committee at the 2016 ECOS Fall Meeting in Wheeling, West Virginia. Front row, left to right: Victoria Phillips (MA), Becky Keogh (AR), Oscar Morales (EPA), Sarah Pauley (MO), Stan Meiburg (EPA), Tom Burack (NH), Ben Grumbles (MD), David Bloom (EPA). Back row, left to right: Scott Thompson (OK), David Nicholas (EPA), Curt Spalding (EPA), David Hindin (EPA), Andy Putnam (CO), Mark Hague (EPA), Nigel Simon (EPA), Betsy Shaw (EPA). September 2016.

- 16-1 ECOS Opposition to Set-Asides in State and Tribal Assistance Grants
- 16-2 Reducing Mercury in the Environment
- 16-3 On Implementing the Toxic Substances Control Act Reforms
- 16-4 Towards a More Effective and Efficient Clean Water Act National Pollutant Discharge Elimination System (NPDES) Program
- 16-5 Addressing Serious Drinking Water and Wastewater Infrastructure Investment Needs

New and Continuing Relationships Health Officials

As both the ECOS President, Martha Rudolph of Colorado, and the Vice President, John Stine of Minnesota, had ties to their state public health agencies, they led ECOS to strengthen and formalize ties with the Association of State and Territorial Health Officials (ASTHO). At the Spring Meeting, ECOS,

EPA, and ASTHO signed a Memorandum of Agreement (MOA) on Public Health and Environmental Collaboration that called for the groups to work together on environmental health initiatives. As first steps to implement the MOA, ECOS and ASTHO worked with EPA to update EPA's guide for public health officials on wildfire smoke and on the roll out of EPA's Community-Focused Exposure and Risk Screening Tool (C-FERST).

Legal Connections

During FY16, ECOS continued to build relationships for the state agency legal community through the ECOS-EPA OGC Legal Network and engagement with the American College of Environmental Lawyers (ACOEL). The Legal Network held calls on drinking water and electrical generating unit issues. In collaboration with ACOEL, ECOS developed and hosted webinars on legal issues tied to working with the regulated community, and managing technical and scientific information.

At the ECOS Spring Meeting in Nashville, TN, Martha Rudolph (CO), Avi Garbow (EPA), and Todd Parfitt (WY) discuss the status of the Clean Power Plan given the Supreme Court's stay of its implementation. April 2016.



Photo: Alexandra Dunn

Other Relationships

ECOS expanded its relationship with the tribes in FY16. In addition to National Tribal Caucus representative attending the ECOS Spring and Fall Meetings, the charter for E-Enterprise for the Environment was expanded to bring in tribes as a third partner.

ECOS' relationship with various parts of the federal government from the White House Office of Management and Budget, to the Council on Environmental Quality, and EPA leadership continued to be strong with ECOS leadership and staff able to reach out to these groups on issues from the federal budget to the Clean Power Plan to drinking water concerns.

Committee Work and Projects

E-Enterprise for the Environment

E-Enterprise for the Environment continued to be a signature joint ECOS-EPA project to modernize the business of environmental protection. Tangible products of the work began to be rolled out in FY16. EPA launched the first phase of the E-Enterprise Portal to provide a

user-friendly platform for the public to interact with EPA and to access information. Also, a preliminary version of a user interface for the national, uniform e-manifest system—a foundational element of E-Enterprise—was released for testing and refinement. The Combined Air Emissions Reporting project completed a number of activities including the development of a web-based service for emissions process codes and demonstration of a prototype for combined reporting. The Pesticide Label Matching project and Smart Mobile Tools for Field Inspectors project completed process improvement events and requirements gathering efforts to take steps forward in modernizing and streamlining work in these areas.

Also, as E-Enterprise for the Environment grew, intersections with the work of the National Environment Information Exchange Network became apparent and the Exchange Network and E-Enterprise for the Environment merged governance bodies and found new productive structures to expedite projects and deliver near-term wins.



Photo: Alexandra Dunn

Stan Meiburg (EPA) and Tom Burack (NH) interact during an E-Enterprise Leadership Council Meeting. April 2016.

Federal Facilities Forum

During FY16, ECOS expanded its work related to the cleanup of contaminated federal facilities by beginning a dialogue with the U.S. Department of Energy's Office of Environmental Management and EPA on the cleanup of the nuclear weapons complex. At a two-day meeting in Richland, Washington, attendees began to build stronger relationships and a better understanding of both common and individual site and agency challenges. With this new knowledge and stronger connections, the group plans to further address issues in FY17.

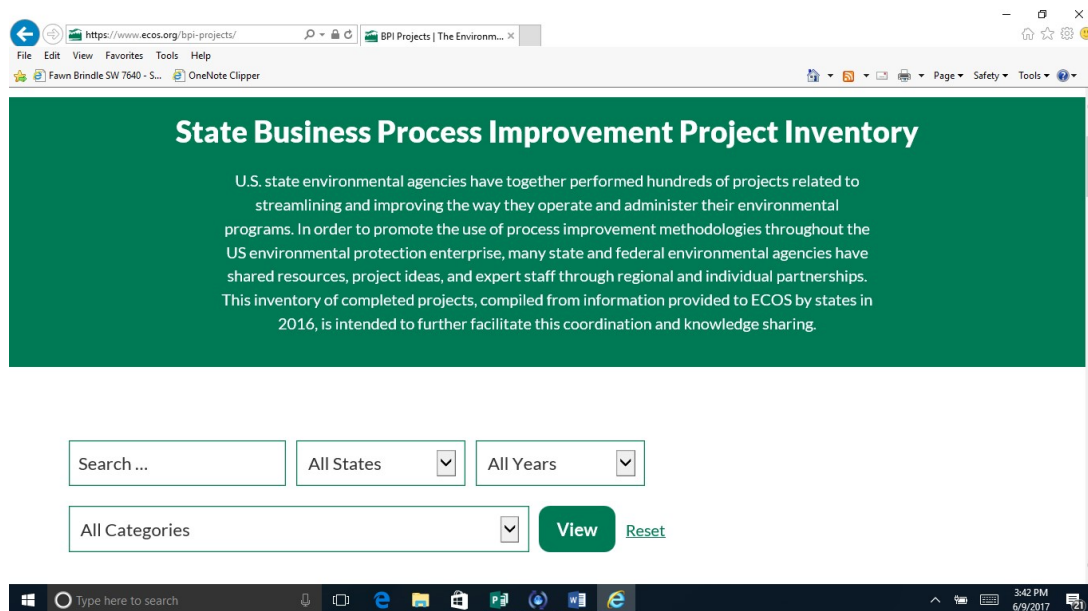
Business Process Improvement

The use of process improvement methodologies throughout the state environmental agencies was encouraged through joint ECOS-EPA work in FY16. In addition to opportunities to discuss such efforts at the Spring and Fall Meetings, ECOS supported state capacity through state employee skills exchanges. The launch of an online business process improvement inventory of projects highlighted how environmental agencies are streamlining and improving the way they operate and administer their environmental programs.



Photo: Carolyn Hanson

ECOS Executive Director Alex Dunn and Shari Meghreblian (TN) explore Reactor B nuclear reactor at the Hanford Site in Washington State. August 2016.



Home screen of the business process improvement inventory on the ECOS website.



The Environmental Research Institute of the States (ERIS) is the education and research subsidiary of ECOS.

The purposes of ERIS are:

- To improve the environment of the United States;
- To further the understanding of the roles and activities of the states in the federal system with respect to environmental protection;
- To conduct environmental policy research including the dissemination of results through publications, meetings, electronic media, and similar venues;
- To act as a forum where state environmental policy makers interact with other environmental stakeholders regarding environmental policy in the United States;
- To provide education programs to assist in the development of environmental policy in the United States; and
- To support and operate on behalf of the Environmental Council of the States.

ERIS Board

As of September 30, 2016

David Paylor

Virginia Department of Environmental Quality
President of the Board

Robert W. King, Jr.
ECOS Alumnus
Vice President

Bill Holman
The Conservation Fund
Secretary-Treasurer

Christopher Jones
Calfee, Halter & Griswold, LLP

John Mitchell
*Kansas Department of Health
and Environment*

Sara Parker-Pauley
*Missouri Department of
Natural Resources*



Photo: Patty Reyes

John Tippetts (ID) speaks during a panel on science tools and research with Tom Burke (EPA), John Stine (MN), and David Paylor (VA) at the 2016 ECOS Fall Meeting in Wheeling, West Virginia. September 2016.

Research Communications

Gathering State Research Needs

During the summer of 2016 after meeting in Duluth, Minnesota, the ERIS Board worked with U.S. EPA's Office of Research and Development (ORD), and the ITRC to develop a survey of state research needs that was distributed to both ECOS members and ITRC state points of contact. The information collected will be analyzed in early FY17.

Continuing State-Federal Dialogue on Research

The ERIS Board continued work with EPA to bring information on federal research and tools to the states. Throughout the year, ERIS worked with ORD to share information with states on new research and tools. At the 2016 ECOS Fall Meeting, ERIS organized a plenary panel that featured tools and research available to states for addressing wildfire smoke and ash concerns, and for working with communities to identify, prioritize, and address community issues.

Strategic Planning

In coordination with ECOS' strategic planning effort, the ERIS Board developed a 2016-2020 strategic plan to guide their work. The goals identified in the strategic plan are:

- To coordinate, prioritize, and communicate state research needs among states and with external partners;
- To facilitate the sharing of research materials and related tools; and
- To continue oversight of the Interstate Technology and Regulatory Council.

The strategic plan will guide ERIS into the future, as will its new logo.

Interstate Technology & Regulatory Council

Background

The Interstate Technology & Regulatory Council (ITRC), a state-led research program under ERIS, is working to advance innovative environmental decision-making. Its mission is to develop information resources that reduce barriers to the use of technically sound environmental technologies and solutions. Composed of various research teams of over 900 members, ITRC brings together state and federal environmental regulators, tribal members, industry experts, community stakeholders, academia, and emeritus experts to work together to reach consensus and institute environmental change.

Remediation Plus

ITRC expanded its mission beyond waste remediation in 2015 and recently introduced “remediation plus” projects—teams that focus on emerging air and water issues.

Stormwater BMP Performance

The Stormwater BMP Performance Team is identifying best methods for evaluating pollution-reduction capabilities and verifying performance of stormwater best management practices (BMPs). The team’s goal is to evaluate these BMPs in order to improve source control, prevent pollution from stormwater runoff, and decrease the influx of toxins into localized bodies of water



Evaluation of Innovative Methane Detection Technologies

The Evaluation of Innovative Methane Detection Technologies Team is investigating the effectiveness of methane detection and characterization technologies to decrease methane emissions. The team is working towards developing a succinct guide of leak detection technologies that are either approved under EPA’s Method 21 and optical gas imaging requirements, or by state environmental agencies.

Training

Classroom Training Courses

- Light Non-Aqueous Phase Liquids—April 2016 in Atlanta, Georgia
- Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management—May 2016 in Denver, Colorado
- Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management—September 2016 in Somerset, New Jersey

Short Courses

- DNAPL Site Characterization—May 2016 at the Eleventh International Conference on Remediation of Chlorinated and Recalcitrant Compounds in Palm Spring, California

Internet-Based Training Course Topics

- Biochemical Reactors for Treating Mining-Influenced Water
- Environmental Molecular Diagnostics: New Tools for Better Decisions
- Geophysical Classification for Munitions Response
- Groundwater Statistics for Environmental Project Managers
- Integrated DNAPL Site Strategy
- ISM Part 1: Soil Sampling and Decision Making Using Incremental Sampling Methodology
- ISM Part 2: Soil Sampling and Decision Making Using Incremental Sampling Methodology
- Issues and Options in Human Health Risk Assessment—A Resource When Alternatives to Default Parameters and Scenarios are Proposed
- LNAPL Part 1: An Improved Understanding of LNAPL Behavior in the Subsurface
- LNAPL Part 2: LNAPL Characterization and Recoverability
- LNAPL Part 3: Evaluating LNAPL Remedial Technologies for Achieving Project Goals
- Mining Waste Treatment Technology Selection
- Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management
- Remedy Selection for Contaminated Sediments
- Use and Measurement of Mass Flux and Mass Discharge



The Stormwater BMP Performance Team members are part of the ITRC's efforts to expand its mission beyond waste remediation.

ECOS and ERIS

Consolidated Statement of Financial Position

From Audited Financial Statement

Liabilities and Net Assets

September 30, 2016 and 2015

	2016	2015
ASSETS		
Cash and cash equivalents	\$ 1,037,555	\$ 825,808
Investments	454,477	429,799
Grants and contributions receivable	878,178	944,971
Other assets	57,803	97,074
Property and equipment, net	341	3,685
Total Assets	\$ 2,428,354	\$ 2,301,337
LIABILITIES AND NET ASSETS		
Liabilities		
Accounts payable and accrued expenses	\$ 306,847	\$ 473,861
Accrued benefits	76,512	83,123
Advances on grants and contracts	1,402	1,402
Advances on meeting registration	22,308	179,706
Deferred membership revenue	26,000	20,000
Deferred rent	38,825	48,071
Total Liabilities	471,894	806,163
Net Assets		
Unrestricted	1,956,460	1,495,174
Total Liabilities and Net Assets	\$ 2,428,354	\$ 2,301,337

Revenue and Support

For the Year Ended September 30, 2016

Federal grants and contracts	\$ 2,907,285
State assessment dues	567,150
Sponsors and contributions	467,925
ITRC-IAP-membership	453,063
Meeting registrations	617,703
Sublease rental income	15,119
Interest and other income (loss)	28,246
Total Revenue and Support	5,056,491

Expenses

For the Year Ended September 30, 2016

Program Services

ITRC	2,178,179
EN program	794,077
TRI - non grant	926
NH Grant - passthrough grant	10,113
Membership services	651,405
Federal Facilitates Forum	144,022
OMNIBUS "01"	88,547
OMNIBUS "03"	79,051
STEP	115,901
Shale gas caucus - DOE	11,669
Shale gas caucus - nongrant	10,506
Total Program Services	4,084,396

Supporting Services

Administrative services	510,809
Total Expenses	4,595,205

Changes in Cash and Cash Equivalents

For the Year Ended September 30, 2016

Cash Flows from Operating Activities	
Change in net assets	\$ 461,286
Adjustments to reconcile change in net assets to net cash from operating activities:	
Depreciation and amortization	3,343
Realized and unrealized (gain) loss	(10,830)
Reinvestment of interest and dividends	(13,847)
Changes in non-cash operating assets and liabilities:	
Grants and contributions receivable	66,793
Other assets	39,271
Accounts payable and accrued expense	(167,014)
Accrued benefits and other expenses	(6,611)
Advances on meeting registration	(157,398)
Deferred membership revenue	6,000
Deferred rent	(9,246)
Net Cash from Operating Activities	<u>211,747</u>
Cash Flows from Investing Activities	
Purchases of investments	-
Proceeds from sale of investments	-
Net Cash from Investing Activities	<u>-</u>
Net change in cash and cash equivalents	211,747
Cash and cash equivalents, beginning of year	825,808
Cash and Cash Equivalents, End of Year	<u><u>\$ 1,037,555</u></u>

ECOS Membership

As of September 30, 2016

**Alabama Department of
Environmental Management**
Lance LeFleur, Director

**Alaska Department of
Environmental Conservation**
Larry Hartig, Commissioner

**Arizona Department of
Environmental Quality**
Misael Cabrera, Director

**Arkansas Department of
Environmental Quality**
Becky Keogh, Director

**California Environmental
Protection Agency**
Matthew Rodriquez, Secretary

**Colorado Department of Public
Health & Environment**
Martha Rudolph, Director,
Environmental Programs

**Connecticut Department of
Energy & Environmental
Protection**
Robert Klee, Commissioner

**Delaware Department of Natural
Resources and Environmental
Control**
David Small, Secretary
Robert Zimmerman, Director of
External Affairs

**District of Columbia Department
of the Environment**
Tommy Wells, Director

**Florida Department of
Environmental Protection**
Jon Steverson, Secretary
Drew Bartlett, Deputy Secretary

**Georgia Environmental
Protection Division**
Richard Dunn, Director
Lauren Curry, Deputy Director

Hawaii Department of Health
Keith Kawaoka, Deputy Director
of Environmental Health

**Idaho Department of
Environmental Quality**
John Tippets, Director

**Illinois Environmental Protection
Agency**
Alec Messina, Director

Illinois Pollution Control Board
Gerald Keenan, Chairman

**Indiana Department of
Environmental Management**
Carol Comer, Commissioner

**Iowa Department of Natural
Resources**
William Ehm, Environmental
Services Division Administrator

**Kansas Department of Health
and Environment**
John Mitchell, Director, Division of
Environment

**Kentucky Department of
Environmental Protection**
Aaron Keatley, Commissioner

**Louisiana Department of
Environmental Quality**
Chuck Carr Brown, Secretary

**Maine Department of
Environmental Protection**
Paul Mercer, Commissioner

**Maryland Department of the
Environment**
Ben Grumbles, Secretary

**Massachusetts Department of
Environmental Protection**
Martin Suuberg, Commissioner

**Michigan Department of
Environmental Quality**
Heidi Grether, Director

**Minnesota Pollution Control
Agency**
John Linc Stine, Commissioner

**Mississippi Department of
Environmental Quality**
Gary Rikard, Executive Director

**Missouri Department of Natural
Resources**
Sara Pauley, Director

Leanne Tippet Mosby, Director
Division of Environmental Quality

**Montana Department of
Environmental Quality**
Tom Livers, Director

**Nebraska Department of
Environmental Quality**
Jim Macy, Director

**Nevada Division of
Environmental Protection**
Dave Emme, Administrator

**New Hampshire Department of
Environmental Services**
Tom Burack, Commissioner

**New Jersey Department of
Environmental Protection**
Bob Martin, Commissioner

**New Mexico Environment
Department**
Butch Tongate, Cabinet Secretary

**New York State Department of
Environmental Conservation**
Basil Seggos, Commissioner

**North Carolina Department of
Environment & Natural
Resources**
Don Van der Vaart, Secretary

**North Dakota Department of
Health**
David Glatt, Chief of
Environmental Health Section

**Ohio Environmental Protection
Agency**
Craig Butler, Director

**Oklahoma Office of the Secretary
of Energy & Environment**
Michael Teague, Secretary

Oklahoma Department of Environmental Quality
Scott Thompson, Executive Director

Oregon Department of Environmental Quality
Pete Shepherd, Interim Director

Pennsylvania Department of Environmental Protection
Patrick McDonnell, Acting Secretary

Puerto Rico Environmental Quality Board
Weldin Ortiz Franco, Chairman

Rhode Island Department of Environmental Management
Janet Coit, Director

South Carolina Department of Health & Environmental Control
Myra Reece, Director of Environmental Affairs

South Dakota Department of Environment & Natural Resources
Steven Pirner, Secretary

Tennessee Department of Environment & Conservation
Robert Martineau, Commissioner

Shari Meghreblian, Deputy Commissioner

Texas Commission on Environmental Quality
Bryan Shaw, Chairman

Utah Department of Environmental Quality
Alan Matheson, Executive Director

Vermont Agency of Natural Resources
Deborah Markowitz, Secretary

Alyssa Schuren, Commissioner of Department of Environmental Conservation

Virginia Department of Environmental Quality
David Paylor, Director

Virgin Islands Department of Planning and Natural Resources
Dawn Henry, Commissioner

Washington Department of Ecology
Maia Bellon, Director

West Virginia Department of Environmental Protection
Randy Huffman, Cabinet Secretary

Wisconsin Department of Natural Resources
Cathy Stepp, Secretary

Patrick Stevens, Deputy Administrator

Wyoming Department of Environmental Quality
Todd Parfitt, Director

ECOS Alumni Membership

About

ECOS alumni are able to stay in touch with their colleagues and engaged with state environmental agency issues by joining the organization as alumni members. Although they do not have the same privileges as state members, they receive copies of all publications, including *ECOSWire* and discounted registration fees for ECOS meetings. ECOS Alumni have a private Linked In group that can be found under groups by searching for ECOS and ECOS Alumni. Other alumni are always welcome to join.

2016 Members

Mary Blakeslee
Betsy Child
Jill Cooper
John Corra
Tom Easterly



Dee Freeman
Mary Gade
Ron Hammerschmidt
Bill Holman
Chris Jones
Robert King, Jr
Mike Linder
Steve Mahfood
Joseph Martens
James Martin
Melanie Morris
Scott Nally
Arleen O'Donnell
Steve Owens
Dick Pedersen
Mark Templeton
Dennis Treacy
Bob Varney

Sara Pauley (MO), Bill Holman (alum from NC), and Bob King (alum from SC) meet at the ERIS Board Meeting in Wheeling, West Virginia. September 2016.

ECOS Staff

as of September 30, 2016

Alexandra Dapolito Dunn

Executive Director and General Counsel—supports the officers, Executive Committee; acts as Congressional and Intergovernmental liaison; oversees ECOS operations and staff

Carolyn Hanson

Deputy Executive Director—acts as chief operating officer; supports the ERIS Board, the Cross Media Committee and the Federal Facilities Forum

Kelly Collis

Administrative and Project Assistant—supports meeting planning and budgeting; leads social media strategy for ITRC

Judith Cummins

Manager of Finance—manages accounting for ECOS and ERIS; provides financial reporting to management, programs, and boards

Beth Graves

Senior Project Manager—supports the Planning Committee, Performance and Partnership Workgroup, and E-Enterprise for the Environment

Dominic Homac

Project Associate—supports ERIS, E-Enterprise for the Environment, and the Shale Gas Caucus

Sarah Grace Longsworth

Administrative Assistant—provides administrative support to the Executive Director and other staff, special projects

Owen McAleer

Project Associate—supports the Planning Committee, the Innovation & Productivity Committee, and E-Enterprise for the Environment

Greg McNelly

Senior Project Manager—supports the Exchange Network and E-Enterprise for the Environment

Lia Parisien

Executive Project Manager—supports the Waste Committee and the Shale Gas Caucus; serves as Editor-in-Chief of ECOS publications; plans Spring and Fall Meetings

Layne Piper

Project Associate—supports the Water Committee, the Data Management Workgroup, and Federal Facilities Forum; supports meeting planning

Kelly Poole

Project Manager—supports the Air Committee, E-Enterprise for the Environment, and the Compliance Committee

Patty Reyes

ITRC Director—provides leadership for the ITRC

Carolyn Sistare

Project Manager—supports ITRC's Board of Advisors, outreach, meeting planning, and financial management

Andy Teplitzky

Senior Counsel—on detail from EPA, supports the Compliance Committee; special projects; acts as liaison with EPA

Key Staff Contacts as of June 2017

General Inquiries: Megan Swanson 202-266-4920
Air Committee: Kelly Poole 202-266-4939
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Cross-Media Committee: Sarah Grace Longworth 202-266-4926
E-Enterprise for the Environment: Beth Graves 202-266-4923
ERIS: Carolyn Hanson 202-266-4924
Exchange Network: Eddie Ortiz 202-266-4935
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Innovation & Productivity Committee: Owen McAleer 202-266-4922
ITRC: Patty Reyes 202-266-4933
Planning Committee: Beth Graves 202-266-4923
Waste Committee: Lia Parisien 202-266-4931
Water Committee: Layne Piper 202-266-4928



E C O S

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