

State Regulator Participants

Photo not available

Sonia Altieri
Senior Advisor (on loan from U.S.
EPA)
Environmental Council of the States
saltieri@ecos.org

Be informed of current research for innovative approaches to foster environmental compliance.



Craig Butler
Director
Ohio Environmental Protection
Agency
Craig.butler@epa.ohio.gov

Compliance begins often with technical assistance and outreach. Ohio continues to emphasize our confidential technical assistance to Ohio companies as a way to facilitate compliance, or beyond compliance, and couple this assistance with access and connections to financial assistance mechanisms. Additionally, we work to use enforcement as a tool when necessary and when so, are creative in development of Supplemental Environmental Projects to benefit the community.



Kelly Crawford
Chief, Compliance & Enforcement,
Air Quality Division
DC Department of Energy &
Environment
kelly.crawford@dc.gov

Branch chief for compliance and enforcement sources of air pollution within in the District of Columbia.



Alexandra Dapolito Dunn
Executive Director and General
Counsel
Environmental Council of the States
adunn@ecos.org

Alexandra Dapolito Dunn is the Executive Director and General Counsel of the Environmental Council of the States (ECOS), the national non-profit, non-partisan association of U.S. state and territorial environmental commissioners. Dunn has two decades of experience in environmental law and policy, and presently works on legislation, policy, and regulatory matters affecting all media—including air, waste, water, and toxics. Dunn works with the E-Enterprise Leadership Council as well as other E-Enterprise (EE) management bodies overseeing the adaptive management and implementation of EE projects.

State Regulator Participants (continued)



Ben Grumbles
Secretary
Maryland Department of the Environment
ben.grumbles@maryland.gov

Ben Grumbles is Maryland's Secretary of the Environment. He is co-chair of the Advanced Monitoring Workshop of the ECOS-EPA E-Enterprise Leadership Council. Ben has served as Director of Arizona's Department of Environmental Quality, EPA Assistant Administrator for Water, and EPA Acting Associate Administrator for Congressional and Intergovernmental Relations.



Heidi Hollenbach
District Supervisor
Michigan Department of Environmental Quality, Air Quality Division
hollenbachh@michigan.gov

My work involves oversight of compliance and enforcement of air quality regulations in Michigan. This objective is accomplished through source inspections, complaint investigations, data review and interpretation, permitting, and enforcement. Our agency is interested in the exchange of ideas on new and innovative approaches to foster environmental compliance as well as improve community relations through increased transparency, communications, and enhanced monitoring.



Jim Macy
Director
Nebraska Department of Environmental Quality
jim.macy@nebraska.gov

I am interested in research or experience that demonstrates economic growth and environmental protection can be mutually achievable. I am interested in compliance assistance programs that have enforceable consequences. Discussions on use of next generation tools in times of budget constraints and staffing models for more responsive, adaptable (flexible) organizations.



Shannon McMillan
Compliance & Enforcement Program Manager
Air Pollution Control Division
Colorado Department of Public Health & Environment
shannon.mcmillan@state.co.us

The Colorado Air Pollution Control Division has direct experience in utilizing innovative tools for compliance oversight efforts and enforcement, including use of an Infrared (IR) Camera for both compliance assistance & enforcement, self-certification projects, partial compliance evaluations, inspector-led portable analyzer use for evaluating engine emissions & compliance, permit conditions/language review work group, and use of FAQs & guidance documents for implementing new regulations. In addition, the Division often works with NEIC/EPA in developing new monitoring tools and will be soon be implementing the use of a mobile monitoring unit. I'm also very interested to understand what tools are available and how they could be possibly incorporated into the Division's efforts to improve compliance.

State Regulator Participants (continued)



Evan Mulholland
Compliance Bureau Administrator --
Air Resources Division
New Hampshire Department of
Environmental Services
evan.mulholland@des.nh.gov

During my first year as Administrator of the Compliance Bureau at NHDES - ARD, I have tried to incorporate some ideas of Next Gen Compliance into our work. Specifically, we have drafted a strategic plan for the Bureau that attempts to improve compliance through publicizing emission data, simplifying and better organizing permit language, and incentivizing emission reductions. I am also very interested in real-time, low cost air pollution monitoring to help with public awareness and general compliance.



Kelly F. Poole
Program Manager, JD
Environmental Council of the States
(ECOS)
kpoole@ecos.org

Kelly Poole supports state team members participating in various E-Enterprise for the Environment initiatives. Working together, environmental leaders at EPA, the states and tribes, are utilizing the E-Enterprise model to simplify, streamline and modernize the business of environmental programs. Poole supports the E-Enterprise Advanced Monitoring Strategy and Implementation Team as they work to achieve their goals regarding the rapidly evolving market of environmental monitoring technology.



Scott Thompson
Executive Director
Oklahoma Department of
Environmental Quality
scott.thompson@deq.ok.gov

I have worked for Oklahoma over 30 years in several environmental programs including: superfund, hazardous waste, solid waste, underground injection control, radiation management, and brownfields. For three years I have been responsible for all the agency's environmental programs including air, water, laboratory, and local offices. Due in part to decreases in resources for many years, we have sought more effective and efficient enforcement processes.

U.S. Environmental Protection Agency Participants



Chrisna Baptista
Attorney-Advisor
U.S. EPA Office of Enforcement and
Compliance Assurance
baptista.chrisna@epa.gov

Member of EPA's Next Generation Compliance team, focused on state coordination as well as Next Gen tools in NPDES and RCRA permits.



Michael Barrette
Branch Chief, Integration Targeting
and Access Branch
U.S. EPA Office of Compliance
barrette.michael@epa.gov

I am interested in transparency, data analytics and targeting. I can present, if needed, on access to data sets and work that is coming in the pipeline for the Enforcement and Compliance History Online (ECHO) database.



Leslie Cronkhite
Program Analyst on the EPA Next
Gen Team
U.S. EPA Office of Enforcement and
Compliance Assurance
cronkhite.leslie@epa.gov

I have recently started working on EPA's Next Gen Team with a focus on Advanced Monitoring. In previous positions, I have worked on rule development and implementation for chemicals management and drinking water protections and voluntary program implementation, such as source water protection and securing industry commitments to change certain practices. Research describing efficacy of Next Gen components will be helpful considerations when the collective enterprise is designing environmental protection solutions.



Cynthia Giles
Assistant Administrator (formerly,
until January 20, 2017)
U.S. EPA Office of Enforcement and
Compliance Assurance
cynthia.giles@gmail.com

I launched Next Generation Compliance (Next Gen) at EPA. I have been working over the last eight years—with leadership from the amazing David Hindin—to increase EPA's focus on implementation as an essential part of good rule and policy design, and to bring knowledge from academic researchers to bear on environmental policy decisions. And EPA has been building innovation into EPA's enforcement work—making the most of advanced monitoring, new IT tools and creative thinking to allow EPA to be more effective, even in a time of declining budgets.

U.S. Environmental Protection Agency Participants (continued)

Photo not available

Debbie Goodwin
Information Management Specialist
U.S. EPA OLEM / ORCR / PIDD /
ORCR
goodwin.debbie@epa.gov

I have worked at EPA with the RCRA Subtitle C program's data system since 1991, first as a contractor supporting OECA and then as an EPA employee as the system administrator of the CM&E module for OECA until 2005. In 2005 I transferred to OSWER, now OLEM, to be a member of the RCRAInfo development team. I currently function as the RCRAInfo's team user support and customer training specialist.



David Hindin
Office Director
U.S. EPA Office of Compliance
hindin.david@epa.gov

Head of office overseeing Next Generation Compliance.



Bryan Hubbell
Senior Advisor on Social Sciences
U.S. EPA Office of Research and
Development
Hubbell.bryan@epa.gov

My interest is in integrating the principles, methods, and tools of the social and behavioral sciences into research and policy applications. I am also specifically interested in the social and behavioral impacts of the introduction of low-cost, widely available environmental sensors and related data, including these sensors affect interactions between communities and regulated sources.

Photo not available

Rebecca Kane
Lead Environmental Protection
Specialist
U.S. EPA
kane.rebecca@epa.gov

I manage EPA's Enforcement and Compliance History Online (ECHO) website.



Rob Maxfield
Senior Science Advisor - Advanced
Monitoring
U.S. EPA New England
maxfield.robert@epa.gov

Over thirty years of experience in the management and direction of environmental laboratories in the private sector and at EPA, most recently as Director of the EPA New England Regional Science Center. Currently acting as Senior Science Advisor to the Regional Administrator focused on the use of advanced monitoring technology to improve compliance, identify contamination in our air and water and clean-up contaminated sites.

U.S. Environmental Protection Agency Participants (continued)



Al McGartland
Director, National Center for
Environmental Economics
U.S. EPA Office of Policy
mcartland.al@epa.gov

My office is very interested in learning how we can better our programs (including enforcement) with the use of behavioral sciences broadly, and behavioral economics in particular. Ever since "NUDGE" there has been an explosion of promising economic research on how we can improve the effectiveness of our programs (bigger bang for the buck) by seeking to understand the cognitive processing and reactions of key actors.



David Meredith
Chief, Media Systems Section
U.S. EPA HQ / OECA / OC /
Enforcement Targeting and Data
Division
Meredith.david@epa.gov

Over the years, I've supervised and/or directly managed EPA large source databases that collect CAA/Stationary Source, CWA/NPDES, RCRA subtitle C, FIFRA, TSCA, EPCRA Section 313 compliance and enforcement data.



David Nicholas
Senior Advisor for eEnterprise
U.S. EPA Office of Land and
Emergency Management
Nicholas.david@epa.gov

I ensure that our waste management and emergency response regulations and policies proactively incorporate next generation compliance concepts such as online posting of compliance reports. I am also working closely with the states to accelerate the adoption of online systems for application, review and approval of environmental permits.

Photo not available

Fredrick No
Attorney-Adviser
U.S. EPA
no.fredrick@epa.gov

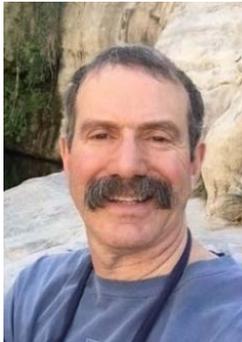
I field and respond to information/records requests from various media outlets, organizations, as well as Congressional inquiries. The collection, search, processing, review, and publication of responsive material is conducted electronically. As records and/or information can include email, texts, databases, phone logs, and/or any other source capable of retaining and/or transmitting data, knowledge of an agency's practices, procedures, policies, and overall infrastructure is integral.

U.S. Environmental Protection Agency Participants (continued)



Ron Shadbegian
Senior Economist
U.S. EPA National Center for
Environmental Economics
ronshadbegian@gmail.com

My previous work in compliance and enforcement focused on traditional compliance tools, but EPA is expanding its compliance toolbox and this workshop will help me to start thinking about alternative compliance mechanisms.



Jon Silberman
Senior Attorney-Advisor
U.S. EPA Office of Enforcement and
Compliance Assurance
silberman.jon@epa.gov

In my 33+ years with EPA, I've worked with inspectors to develop cases, represented EPA in numerous administrative enforcement actions, supported the Department of Justice in judicial enforcement cases, drafted rules and policies in all media, and promoted and published on deterrence, innovative rule and permit design, and environmental monitoring. But experience only tells us where we've been - it's applying our experience innovatively to new problems that stimulates progress.



David G. Smith PE PLS
Data Scientist
U.S. EPA
smith.davidg@epa.gov

Involved in EPA E-Enterprise efforts, APIs and tools for improving electronic reporting to achieve burden reduction, improved data integration and data quality. Managed EPA's Facility Registry Service and currently working for EPA's Chief Data Scientist.



Sharmin Syed
Environmental Protection Specialist
U.S. EPA Office of Wastewater
Management
syed.sharmin@epa.gov

I have been at EPA Headquarters in the National Pollutant Discharge Elimination System (NPDES) permitting program for over 10 years, working with states in implementing the Clean Water Act and NPDES regulations through state program assessments and as an instructor in the NPDES Permit Writers' Training Course. In the NPDES program, innovative technologies and next generation tools can provide new tools for the regulated community to meet permitting requirements. We look forward to learning and discussing new methods that may be available to permittees within the regulatory and permitting framework.

U.S. Environmental Protection Agency Participants (continued)



Catherine Tunis
Senior Analyst
U.S. EPA Next Generation
Compliance
tunis.catherine@epa.gov

As a senior analyst on EPA's Next generation Compliance Team, I am interested to see new academic research on the factors that affect compliance. Compliance is needed for the Nation to reap the benefits of our environmental laws, and these new understandings, when applied, can help improve compliance rates.

Photo not available

Jane Wallace
Deputy Division Director
U.S. EPA OECA/OC/ETDD
Wallace.jane@epa.gov

To attend as an observer as ETDD would like to understand the requirements from attendees so we can plan for supporting the needs in the future.



Will Wheeler
Economist
U.S. EPA National Center for
Environmental Economics
wheeler.william@epa.gov

As a member of the National Center for Environmental Economics, I spend a large fraction of my time supporting the Office of Enforcement and Compliance Assurance in a variety of ways. I am very interested in research projects that evaluate the effectiveness of traditional and Next Gen enforcement and have some projects in early stages.



George Wyeth
Senior Attorney
U.S. EPA Office of Enforcement and
Compliance Assurance
Wyeth.george@epa.gov

As an EPA attorney I have a strong interest in research that sheds light on the effectiveness of innovative strategies such as advanced monitoring and transparency, and program design choices with regard to features such as reporting and third-party validation of compliance. Such research can be directly applied by agency officials to improve our programs, and drive better compliance and better environmental outcomes.

Academic Participants



Cary Coglianese
Edward B. Shils Professor of Law;
Professor of Political Science;
Director, Penn Program on
Regulation
University of Pennsylvania
cary_coglianese@law.upenn.edu

I am currently engaged in research projects on enforcement of flexible regulatory instruments and on the use of machine learning by government, including in improving the targeting of limited enforcement resources.



Mark A. Cohen
Justin Potter Professor of American
Competitive Enterprise and Professor
of Law
Owen Graduate School of
Management
Vanderbilt University
mark.cohen@owen.vanderbilt.edu

My research has focused on how both monitoring and enforcement policies provide incentives for firms to comply with environmental regulations; including frequency and type of inspections and penalty policies. I have also worked on the role of mandatory and voluntary information disclosure and its impact on compliance.



Salo Coslovsky
Associate Professor of International
Development
New York University
Robert F. Wagner Graduate School of
Public Service
svc2@nyu.edu

In my research, I use qualitative methods to understand how front-line regulators engage with business managers and try to bring them into compliance. So far, I've done most of my research in Brazil, and studied problems related to the enforcement of environmental, labor, food safety, and urban land-use regulations. A key finding from my research is that front-line regulators often succeed not because they impose hefty fines or insist that firms adopt a given technology, but because they force managers to reassess (and transform) how their business operate.



Dietrich Earnhart
Professor
University of Kansas
earnhart@ku.edu

I am currently conducting two research studies on Next Generation Compliance. First, I am collaborating with David Markell and Robert Glicksman to explore how the incorporation of Next Generation Compliance elements into Clean Water Act (CWA) permits and CWA-related enforcement actions affects compliance with discharge limits. Second, I am exploring how the complexity of CWA permits affects compliance with discharge limits. Both studies should help the EPA and state environmental agencies to design permits in ways that facilitate compliance.

Academic Participants (continued)



Mary Evans
Jerrine and Thomas Mitchell
Associate Professor of Environmental
Economics
Claremont McKenna College
mevans@cmc.edu

My work in the area of enforcement and compliance has broadly focused on examining features of traditional (e.g., fines for non-compliance, probabilistic inspections) and non-traditional regulatory instruments (e.g., information disclosure) with a particular focus on the incentives they create for firms. Recent work explores the dual influences on compliance behavior of strategic interactions among firms in the regulatory environment and the product market. I am particularly interested in exploring the potential for natural and field experiments to inform our research in the area of compliance and enforcement.



Paul Ferraro
Bloomberg Distinguished Professor
Johns Hopkins University
pferraro@jhu.edu

Professor Ferraro collaborates with scientists, lawyers, engineers and program administrators to develop evidence-based environmental programs. His research aims to incorporate insights from the behavioral sciences into program designs and to measure program impacts on the environment and human welfare, particularly through randomized field experiments.



Robert Glicksman
J.B. & Maurice C. Shapiro Professor
of Environmental Law
The George Washington University
Law School
rglicksman@law.gwu.edu

I have worked on legal issues relating to environmental compliance for many years. My work has included several empirical studies with Dietrich Earnhart in which we evaluated the effectiveness on environmental behavior and performance of different federal and state enforcement actions. Recently, I have worked on several law review articles with David Markell (some published, some still in progress) that provide a framework for designing environmental compliance programs, using EPA's Next Generation Compliance initiative to illustrate the value of the framework.



Laura Grant
Assistant Professor
Claremont McKenna College
lgrant@cmc.edu

A large part of my research assesses whether or not environmental nonprofits assist with government monitoring and improve compliance with environmental regulations. The influence of nonprofit can substitute for or complement government action; understanding the direction of influence matters greatly for policy implementation and analysis. If and when formal mechanisms are unavailable, these nonprofit groups are critical tools for compliance and enforcement.

Academic Participants (continued)



Wayne Gray
John T. Croteau Professor of
Economics
Clark University
wgray@clarku.edu

I've been researching enforcement and compliance issues with OSHA and EPA regulation since the mid-1980s. Topics include electronic reporting of water pollutant discharges, effectiveness of different regulatory tools (penalties, enforcement, monitoring), and heterogeneity in responses to enforcement (firm size, profitability).



Katherine Grooms
Assistant Professor of Economics
Southwestern University
groomsk@southwestern.edu

My work focuses on the state level factors that alter enforcement and compliance with the Clean Water Act. I am interested in how to induce accurate monitoring and incentivize transparency between facilities and regulators.



Matthew Johnson
Research Scientist
Duke University Sanford School of
Public Policy
matthew.johnson@duke.edu

Much of my research focuses on understanding factors that determine regulatory effectiveness in the realm of health, safety and environment. For example, in several projects, my co-authors and I investigate the conditions under which OSHA inspections improve workplace safety outcomes. In other work, I investigate how publicizing companies that violate OSHA regulations influences future compliance.



David Konisky
Associate Professor
School of Public and Environmental
Affairs, Indiana University,
Bloomington
dkonisky@indiana.edu

My research investigates patterns of regulatory enforcement outcomes (e.g., inspections, informal and formal actions) across space and time. I am particularly interested in state level enforcement outcomes, and how they vary by political and economic attributes, as well as the equity (i.e., environmental justice) of enforcement outcomes across demographic and socioeconomic groups.

Academic Participants (continued)



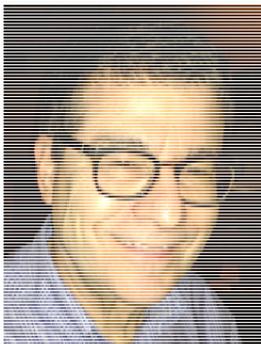
Dave Markell
Steven M. Goldstein Professor and
Associate Dean for Research
Florida State Univ. College of Law
dmarkell@law.fsu.edu

Have written books and many articles about environmental enforcement, including about Next Gen - see e.g., ABA article about Next Gen, Arizona Law Review article about Next Gen, etc.
Have spent several years doing environmental enforcement, with EPA/US DOJ, NY Department of Environmental Conservation (DEC), and NAFTA



John W. Mayo
Professor of Economics, Business and
Public Policy
Georgetown University
mayoj@georgetown.edu

I am very interested in the design and application of regulations, and their economic effects.



John Mendeloff
Professor
Graduate School of Public and
International Affairs
University of Pittsburgh
jmen@pitt.edu

I have extensive experience examining enforcement, information and consultation strategies at OSHA.



Jennifer Nash
Director, Business & Environment
Initiative
Harvard Business School
jnash@hbs.edu

My research explores the role of different regulatory approaches in strengthening the environmental performance of firms. I study voluntary programs run by government, self-regulatory programs run by industry, performance-based regulation, and management-based regulation. I seek to understand the types of environmental problems each approach is best able to address, how to design regulations so they best achieve environmental goals, and obstacles that may impede regulatory effectiveness.

Academic Participants (continued)



Caroline L. Noblet
Assistant Professor
School of Economics, University of
Maine
caroline.noblet@maine.edu

My research focuses on behavioral economics and the environment. I examine provision & use of information, the role of trust/credibility and social norms & motivation in design of, and response to, proposed environmental public policy and benefit-cost analysis.



Paulina Oliva
Associate Professor
University of California, Irvine
bolivava@uci.edu

I am interested in environmental policy effectiveness and have conducted research in this area. I have conducted research using randomized controlled trials in Africa to analyze the effectiveness of economic incentives in the adoption of new agricultural technologies with environmental benefits. I have also conducted research on the prevalence of corruption in smog check centers and used economic models to evaluate the effect of policy changes. Finally, I am currently working on the design of an RCT related to gas station self monitoring in California.



LeRoy (Lee) Paddock
Associate Dean for Environmental
Legal Studies
The George Washington University
Law School
lpaddock@law.gwu.edu

Early in my career I designed many of Minnesota's environmental enforcement laws. I have also worked on both EPA's audit law and its Performance Track program. I also worked with EPA on a Next Gen conference in 2014 and published a book based on that conference.



Michelle Pautz
Associate Professor of Political
Science
University of Dayton
mpautz1@udayton.edu

My research focuses on the interactions of those on the front-lines, namely environmental inspectors and members of the regulated community. Understanding the dynamics of these interactions informs how environmental regulations are implemented today and what might be possible for the future utilizing next generation compliance tools.

Academic Participants (continued)



Sara Rinfret
Assistant Professor of Public
Administration
University of Montana, Department
of Political Science
sara.rinfret@umontana.edu

Sara Rinfret is interested in how interactions impact environmental policy implementation. I have examined how the relationships interest groups and rule-writers at the state and impact the phases of administrative rulemaking. In addition, I have researched how the perceptions of regulators and the regulated impact compliance efforts. In 2012, we conducted a nationwide survey (with Michelle Pautz) about how regulators perceive the businesses they regulate and how this impacts environmental policy more broadly. And, most recently, we conducted a survey of the Montana regulated community and how they perceive environmental regulators. Both areas of research suggest a shift towards collaboration in order to ensure compliance with environmental laws.



Jay Shimshack
Associate Professor of Public Policy
and Economics
University of Virginia, Frank Batten
School of Leadership and Public
Policy
jay.shimshack@virginia.edu

Shimshack studies environmental regulation, environmental economics, corporate social behavior, and applied microeconomics for public policy. Much of his research focuses on the monitoring and enforcement of environmental law. He has longstanding interests in several Next Generation compliance tools, including disclosure as enforcement leverage, self-reporting, and innovative enforcement.



Jodi Short
Bion Gregory Chair in Business Law
UC Hastings College of the Law
shortj@uchastings.edu

My research is on the intersection of public and private regulatory regimes and the theory and practice of regulatory reform. I have studied the factors that contribute to the success or failure of voluntary environmental programs and third-party auditing regimes. I also write on the politics of enforcement and regulatory reform.



Hilary Sigman
Professor of Economics
Rutgers University
hsigman@rutgers.edu

I conduct empirical research on implementation of environmental policy, including the role of enforcement and the effects of cooperative federalism. My work has focused on hazardous waste and water pollution.

Academic Participants (continued)



Sally S. Simpson
Professor, Criminology and Criminal Justice
Director, Center for the Study of Business Ethics, Regulation, & Crime
University of Maryland, College Park
SSimpson@umd.edu

Using factorial surveys, examine factors that influence decision-makers to violate and over comply with environmental law. Also study intervention strategies that lower the offending risk (deterrence).



Mike Toffel
Senator John Heinz Professor of Environmental Management
Harvard Business School
mtoffel@hbs.edu

My research identifies factors that lead companies to improve environmental compliance and performance and to improve occupational safety (fewer injuries) and working conditions, and to exhibit greater transparency with regulators (self-disclosing violations) and other stakeholders. My work has also identified sources of bias in various types of inspections, including of automobile emissions in New York State and of factory working conditions in global supply chains. I am also investigating circumstances in which inspections are more likely to prompt improved working conditions.



Benjamin van Rooij
John S. and Marilyn Long Professor
of US-China Business and Law
School of Law, UC Irvine
bvanrooij@law.uci.edu

My research centers on how law shapes behavior. My original research studied environmental law enforcement, compliance and implementability of regulatory law with a focus on China. Since then I have studied the role citizens can play in regulatory enforcement, and also how environmental regulation can be organized when there is limited resources and independence, with a focus on emerging markets such as China, Brazil, Mexico, and Indonesia. My current work focuses on understanding how law can create deeper levels of compliance where behavior becomes institutionalized and internalized in regulated organizations and their cultures.
