**Table of Contents**
**SAB Science Integration for Decision Making Fact Finding Interviews**
**EPA Office of Research and Development Assistant Administrator & Deputy Administrator and Office of Science Policy and Office of Water's Office of Oceans, Wetlands and Watersheds and Office of Science Policy**
**January 28, 2010**

**Schedule and Logistics**
**Schedule for January 28, 2010**
**EPA Office of Research and Development Assistant Administrator & Deputy Administrator and Office of Science Policy and Office of Water's Office of Oceans, Wetlands and Watersheds and Office of Science Policy**
**Washington, D.C.**

| | |
|---|---|
| 8:30 - 9:30 | Assistant Administrator and Deputy Assistant Administrator for Science, Office of Research and Development (41213 RRB) |
| 9:45 - 11:00 | Scientific and Technical Staff, OW Office of Wetlands, Oceans and Watersheds (EPA West, 7129) |
| 12:15-1:45 | Scientific and Technical Staff, OW Office of Science and Technology (5233B-OST-OD Conference Room) |
| 2:00 - 3:00 | Office Director and Management Team, OW Office of Science and Technology (5233B-OST-OD Conference Room) |
| 3:30 5:00 | Director and Management Team, ORD Office of Science Policy (Policyeum Conference Room 51161/DC-Ronald Reagan) |

Logistics

SAB members inside the Ronald Reagan Building near the "Berlin Wall" (entrance located off the plaza, entrance south of Aria Restaurant) at 8:00.

**SAB Science Integration for Decision Making Fact-Finding Meeting**
**Meeting with EPA Office of Research and Development**
**Assistant Administrator & Deputy Administrator**
**Conference Room 41213 RRB**

**Call-in Number for SAB subgroup: 866-299-3188, access code 343-9981 and press the # sign.**
**January 28, 2010, 8:30-9:30 a.m.**
**Draft Agenda**

**Purpose of Interview:** to help SAB Committee members learn about ORD's current and recent experience with science integration supporting EPA decision making so that the SAB can develop advice to support and/or strengthen Agency science integration efforts.

1. Introductions facilitated by the SAB Staff Office

2. Discussion facilitated by SAB Members
   - Practices for integrating science to support decision making
   - Consideration of public, stakeholder, external scientific, and other input in science assessment
   - Drivers and impediments to implementing past recommendations for science integration
   - Ways program receives feedback on how science is used in decision-making
   - Workforce to support science integration for decision making

3. Identification of any follow-up actions

Planned participants

EPA ORD
Dr. Paul Anastas, Assistant Adminsitrator
Dr. Kevin Teichman, Deputy Assistant Adminsitratort

SAB Committee on Science Integration Committee Members
Dr. James Johnson, Howard University
Dr. Gary Sayler, University of Tennessee
Dr. Wayne Landis, Western Washington University (by telephone)
Dr. Thomas Theis, University of Illinois at Chicago (by telephone)
Dr. Terry Daniel, University of Arizona (by telephone)

SAB Staff Office
Dr. Vanessa Vu, Director
Dr. Angela Nugent, Designated Federal Officer

**SAB Science Integration for Decision Making Fact-Finding Meeting**
**Scientific and Technical Staff, OW Office of Wetlands, Oceans and Watersheds**
**(EPA West, 7129)**
**Call-in Number for SAB subgroup: 866-299-3188, access code 343-9981 and press the # sign.**
**January 28, 2010, 9:45 a.m. - 11:00 p.m.**
**Draft Agenda**

**Purpose of Interview:** to help SAB Committee members learn about OWOW's current and recent experience with science integration supporting EPA decision making so that the SAB can develop advice to support and/or strengthen Agency science integration efforts.

1. Introductions facilitated by the SAB Staff Office

2. Discussion facilitated by SAB Members
   - Practices for integrating science to support decision making
   - Consideration of public, stakeholder, external scientific, and other input in science assessment
   - Drivers and impediments to implementing past recommendations for science integration
   - Ways program receives feedback on how science is used in decision-making
   - Workforce to support science integration for decision making

3. Identification of any follow-up actions

Planned participants

EPA OWOW
Brian Rappoli
Chris Faulkner
Donna Downing
Laura-S Johnson
Michael Scozzafava
Rachel Fertik
Robert Goo
Susan Holdsworth

Committee on Science Integration Committee Members
Dr. James Johnson, Howard University
Dr. Gary Sayler, University of Tennessee
Dr. Wayne Landis, Western Washington University (by telephone)
Dr. Thomas Theis, University of Illinois at Chicago (by telephone)
Dr. Terry Daniel, University of Arizona (by telephone)

SAB Staff Office
Dr. Vanessa Vu, Director
Dr. Angela Nugent, Designated Federal Officer

## Available Biosketches for OWOW Staff

Robert Goo - Environmental Protection Agency, Office of Wetlands Oceans and Watersheds, Nonpoint Source Control Branch. Education: University of Colorado, Boulder, CO and American University, Washington, D.C. Focal Areas: Biology, Ecology, Technology of Management, Computer Science. Previous work experience: Washington University in Saint Louis - Biomedical neuro-imaging computer programmer/analyst; University of Michigan Kresge Hearing Research Institute – computer programmer/analyst supporting cochlear prosthesis research. Currently employed at U.S. EPA (21 years). Selected areas of expertise: federal lands management, grazing and rangeland management, stormwater management, onsite wastewater treatment systems, low impact development and sustainable water resources management.

Chris Faulkner, Aquatic Biologist with the Wetlands Division, Wetlands Strategies and State Program Branch. Education: UNC Chapel Hill and George Mason University. Focal Areas: Environmental Biology and Public Policy. Previous work experience: stream ecologist in OWOW's Monitoring Branch from 1989 to 2003; worked for Ohio EPA 1992 - 1993 as a field ecologist collecting stream data; worked for EPA Region 9 from 1993 - 1994 as the Regional Monitoring Coordinator.

Michael Scozzafava has been with EPA since 2004 and the Office of Wetlands, Oceans, and Watersheds since 2006. He is project lead for the 2011 National Wetland Condition Assessment and chair of the National Wetlands Monitoring and Assessment Work Group (NWMAWG).

**SAB Science Integration for Decision Making Fact-Finding Meeting**
**Scientific and Technical Staff, OW Office of Science and Technology**
**(5233B-OST-OD Conference Room)**
**Call-in Number for SAB subgroup: 866-299-3188, access code 343-9981 and press the # sign.**
**January 28, 2010, 12:45 p.m. - 1:45 p.m.**
**Draft Agenda**

**Purpose of Interview:** to help SAB Committee members learn about OST's current and recent experience with science integration supporting EPA decision making so that the SAB can develop advice to support and/or strengthen Agency science integration efforts.

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   - Workforce to support science integration for decision making

3. Identification of any follow-up actions

Planned participants

EPA OST
Elizabeth Doyle
Joe Beaman
Mary Reiley
Amy Newman
Grace Robiou

Committee on Science Integration Committee Members
Dr. James Johnson, Howard University
Dr. Gary Sayler, University of Tennessee
Dr. Wayne Landis, Western Washington University (by telephone)
Dr. Thomas Theis, University of Illinois at Chicago (by telephone)
Dr. Terry Daniel, University of Arizona (by telephone)
Dr. Penelope Fenner-Crisp, Independent consultant (by telephone

SAB Staff Office
Dr. Vanessa Vu, Director
Dr. Angela Nugent, Designated Federal Office

**SAB Science Integration for Decision Making Fact-Finding Meeting**
**Office Director and Management Team, OW Office of Science and Technology**
**(5233B-OST-OD Conference Room)**
**Call-in Number for SAB subgroup: 866-299-3188, access code 343-9981 and press the # sign.**
**January 28, 2010, 2:00 p.m. - 3:00 p.m.**
**Draft Agenda**

**Purpose of Interview:** to help SAB Committee members learn about OSP's current and recent experience with science integration supporting EPA decision making so that the SAB can develop advice to support and/or strengthen Agency science integration efforts.

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3. Identification of any follow-up actions

Planned participants

EPA OSP
Mr. Ephraim King
Ms. Denise Keehner
Mr. Edward Ohanian

Committee on Science Integration Committee Members
Dr. James Johnson, Howard University
Dr. Gary Sayler, University of Tennessee
Dr. Wayne Landis, Western Washington University (by telephone)
Dr. Thomas Theis, University of Illinois at Chicago (by telephone)
Dr. Terry Daniel, University of Arizona (by telephone)
Dr. Penelope Fenner-Crisp, Independent consultant (by telephone)

SAB Staff Office
Dr. Vanessa Vu, Director
Dr. Angela Nugent, Designated Federal Office

**SAB Science Integration for Decision Making Fact-Finding Meeting**
**Office Director and Management Team, ORD Office of Science Policy Office of Science and Technology**
**(Policyeum Conference Room 51161/DC-Ronald Reagan)**
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3. Identification of any follow-up actions

Planned participants

EPA OST
Fred Hauchman – Director
Mimi Dannel – Acting Deputy Director
Bruce Rodan – Senior Science Advisor
Bob Fegley – Acting Program Support Staff Chief
Nigel Fields – Regional Staff Chief
Ronald Landy – Previous Regional Staff Chief

Committee on Science Integration Committee Members
Dr. James Johnson, Howard University
Dr. Gary Sayler, University of Tennessee
Dr. Wayne Landis, Western Washington University (by telephone)
Dr. Thomas Theis, University of Illinois at Chicago (by telephone)
Dr. Terry Daniel, University of Arizona (by telephone)

SAB Staff Office
Dr. Vanessa Vu, Director
Dr. Angela Nugent, Designated Federal Office

# Office of Science and Technology Basic Information

Science and Technology (OST) is one of five water offices at EPA. We set national environmental baselines for the quality of the Nation's waters. We help ensure the latest water pollution science and best available control technologies to support Office of Water program goals to keep water safe and clean.

Every year under the Clean Water Act and Safe Drinking Water Act, OST produces regulations, guidelines, methods, standards, science-based criteria, and studies that are critical components of national programs that protect people and the aquatic environment.



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## Developing the Scientific Basis for a Regulatory Framework

OST applies and sponsors water research and studies that help other EPA programs, states and tribes to protect their drinking water supplies and minimize the effects of pollutants on fish, wildlife, and the aquatic environment. Federal, state, tribal and local governments use this information to set limits on pollutants that may be discharged into all types of waters—rivers, lakes, and streams.

OST works closely with states, tribes, local governments, industry, and environmental groups to help them set and meet their water quality goals. Stakeholders also participate in identifying manufacturing processes that reduce or prevent the production of polluting chemicals and in setting our future regulatory goals.

While OST's products form the scientific basis for most water programs that protect human health and the aquatic environment, EPA's ten regional offices communicate the information to our co-regulators and to the public.

Together with EPA's Office of Research and Development, other Office of Water offices, and the regions, OST provides the tools and the training that states and tribes need to develop and maintain strong scientifically-based water pollution control programs.

## Engineering and Analysis Division

The Engineering and Analysis Division (EAD) develops National technology-based Effluent Guidelines that control pollutant discharges from industry into surface waters and into wastewater treatment plants.

EAD regulations also control the intake of cooling water at many industrial facilities. Intake regulations keep fish and shellfish from being killed or injured as a result of being pulled into cooling systems or trapped against intake screens. Additionally, EAD identifies and analyzes industrial processes and wastewater treatment technologies.

This division also develops laboratory analytical test methods that are the basis of national regulations and of thousands of discharge permits. Many of the pollutants controlled by these regulations are persistent toxic compounds like lead or benzene, but the guidelines also address conventional pollutants like ammonia and phosphorous.

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## Standards and Health Protection Division

The Standards and Health Protection Division (SHPD) directs the national program for adoption of state and tribal water quality standards. It develops policies and guidance and provides assistance to EPA regional offices and states on adopting appropriate uses, water quality criteria, and antidegradation protection for specific water bodies. SHPD also helps states and EPA Regions develop Total Maximum Daily Loads (TMDLs) to meet water quality standards.

SHPD runs the Agency's programs to limit the public's exposure to toxics and pathogens from swimming and consuming non-commercial fish. It maintains the National Listing of Fish Advisories, a database available to the public via the Internet, and develops technical documents and guidance materials that help states and tribes monitor, assess, and notify the public when and where non-commercial fish are not suitable to eat.

Under the BEACH Program, EPA develops new laboratory test methods for detecting contaminants in beach water and SHPD provides grants to state, tribal, interstate, and local agencies to establish effective monitoring and public notification programs for beaches.

SHPD conducts environmental assessments to help evaluate the effects of regulations on water quality. The Division also develops other tools—water quality models, flow and tissue analysis methods, and approaches for better understanding options for how to allocate pollutant loadings across sources—to help states, territories, and tribes effectively implement their Water Quality Standards.

## Health and Ecological Criteria Division

The Health and Ecological Criteria Division (HECD) conducts risk assessments and develops criteria for surface and drinking water to ensure they are safe for aquatic life and human use and consumption.

Division scientists also provide technical assistance to states, tribes, local governments and drinking water authorities on criteria implementation, site specific adjustment, data analysis, and drinking water health advisories.

To protect aquatic life, HECD develops and publishes nutrient criteria that protect waters from nutrient over-enrichment; biological criteria designed to describe and maintain the biological condition of aquatic communities; chemical criteria to define the chemical concentration below which aquatic life are protected; and clean sediment criteria that protect aquatic life from excessive non-contaminated sediment.

HECD also has the lead for conducting risk assessments for the use and disposal of biosolids, and for developing appropriate regulations that protect human health and the environment.

# Senior Staff Biographies ORD - Office of Science Policy

**Fred Hauchman – Director**

Fred Hauchman has worked for EPA since 1985 in a variety of scientific, programmatic and management positions. He is currently the director of the Office of Research and Development's (ORD) Office of Science Policy. His office is responsible for the integration of ORD science and technology into Agency decisions, and for linking ORD's national laboratories and centers with EPA Program and Regional Offices, States, Tribes, and other organizations. Dr. Hauchman began his career with the Agency as a senior health scientist in the Office of Air Quality Planning and Standards. In ORD, he has served as the Assistant Laboratory Director for Water in the National Health and Environmental Effects Research Laboratory in RTP, NC; the ORD National Program Director for Drinking Water; and the Director of the National Exposure Research Laboratory's Microbiological and Chemical Exposure Assessment Research Division in Cincinnati, OH. Dr. Hauchman received an M.S. in Public Health from the University of North Carolina School of Public Health, and a Ph.D. in environmental health sciences from the Johns Hopkins University. He received additional training in environmental virology as a postdoctoral research associate at UNC.

**Mimi Dannel – Acting Deputy Director**

Mimi Dannel is the acting Deputy Director of ORD's Office of Science Policy. She represents OSP on ORD's Management Council and is responsible for overseeing the business operations of OSP. Prior to her position as acting Deputy, Ms. Dannel served as the Program Support Staff Chief in OSP. She joined OSP in 2002 as the research coordinator for water, and subsequently served as the staff chief for the Research Coordination Staff and the Regional Science Staff. Ms. Dannel began her EPA career in 1987 in Region 6 (Dallas, TX) where she served as the Region's principal water quality modeler and coordinator for the Total Maximum Daily Load (TMDL) program. In 1994, she transferred to the Office of Water (OW) at EPA Headquarters, where she held policy and science-related positions in the TMDL program. She was also part of the team that established OW's recreational waters program following passage of the Beaches Environmental Assessment and Coastal Health Act of 2000. Ms. Dannel earned a B.S. in chemical engineering from Mississippi State University in 1979 and an M.S. in environmental science from the University of Texas at Dallas in 1987.

**Bruce Rodan – Senior Science Advisor**

Bruce Rodan is the Senior Science Advisor with the ORD Office of Science Policy. Dr. Rodan provides technical and scientific advice to OSP and the ORD Immediate Office, and represents ORD at Agency regulatory guidance meetings, the Science Policy Council Steering Committee, and in interagency and public fora. Dr. Rodan is a medical doctor (U. Melb) with Masters Degrees in Environmental Studies (U. Melb) and Public Health (Harvard). Dr. Rodan's previous work has included clinical medicine and environmental consulting, prior to coming to EPA as a

AAAS Fellow in 1996 and then joining the Agency in ORD's National Center for Environmental Assessment. Following a two year detail to the White House Office of Science and Technology Policy, Dr. Rodan joined ORD-OSP in 2009. His work has included environmental risk analyses for toxic chemicals under the U.S. EPA Integrated Risk Information System (IRIS), negotiating the Stockholm Convention on Persistent Organic Pollutants (POPs), and research on neotropical timber species under the CITES Treaty. Dr. Rodan is co-chair of the CENR Cross-Cutting Group on Climate Change and Human Health.

**Bob Fegley – Acting Program Support Staff Chief**

Bob Fegley is the Acting Program Support Staff Chief within the Office of Science Policy. He began his EPA career in 1984 in the Agency's Policy Office, moving to the Office of Research and Development in 1990. Through most of his career, Mr. Fegley has worked on issues related to the interface between science and air pollution policy. He was one of the authors of a ground breaking EPA comparative risk report entitled: "Unfinished Business"; was involved in the development of the Clean Air Act Amendments of 1990; and was engaged in research planning for ORD in the early 2000s. Since July, 2009, Mr. Fegley has served in his current acting position as Program Support Staff Chief. Prior to this, he led the Office of Science Policy's air team. Mr. Fegley has a Master of Public Health degree from the University of Michigan.

**Nigel Fields – Regional Staff Chief**

Nigel Fields began public service at the Louisiana Office of Public Health in New Orleans, where he conducted health assessments in partnership with local communities, EPA Region 6, and the Agency for Toxic Substances and Disease Registry (ATSDR) as a part of Superfund cleanup efforts. Mr. Fields joined the EPA in 1997 to strengthen community involvement in Superfund and other federal- and state-managed clean-up processes as the national coordinator of the Technical Outreach Services to Communities Program. From 1999-2009, Mr. Fields served as an Environmental Health Scientist within EPA's National Center for Environmental Research where he managed extramural basic science, epidemiology, and exposure science research with a special emphasis on children's health, tribal populations, and environmental justice communities. As the EPA program manager for the EPA/NIEHS Children's Environmental Health Research Centers and the Tribal Environmental Health Program, he has promoted scientific discovery and sustainable risk management practices in communities across the country. Mr. Fields now serves as ORD's Regional Science Program Director and the staff chief of the ORD Superfund and Technology Liaisons. Mr. Fields also represents the Agency's mission and interests on the Interagency Coordinating Committee of the National Children's Study. Mr. Fields holds a Bachelors Degree in Ecology and Environmental Studies and a Masters of Science in Public Health from Tulane University.

**Ronald Landy – Previous Regional Staff Chief**

Ron Landy received his veterinary degree from the University of Pennsylvania and his Ph.D. in toxicology from Cornell University. He is board certified by the American College of Toxicology and the American College of Veterinary Preventive Medicine. After completing his graduate training, Dr. Landy came to Washington on a Sea Grant Congressional Fellowship, where he was stationed with the National Oceanic and Atmospheric Administration, National Marine Pollution Program Office. He has held the following positions with the government: Chief Environmental Health Program in the Air Force Reserve; Veterinary Toxicologist with the Food and Drug Administration; Regional Expert Toxicologist with EPA Region 4; Senior Scientist with ORD's Office of Technology Transfer and Regulatory Support; Chief, ORD's Regional Scientist Program; Acting Director of ORD's Regional Science Program; and presently serves as the ORD Regional Science Liaison to EPA Region 3. His positions have involved a wide range of efforts involving human and ecological risk assessment and management of science programs.

EPA
United States
Environmental Protection
Agency

# Office Of Science Policy

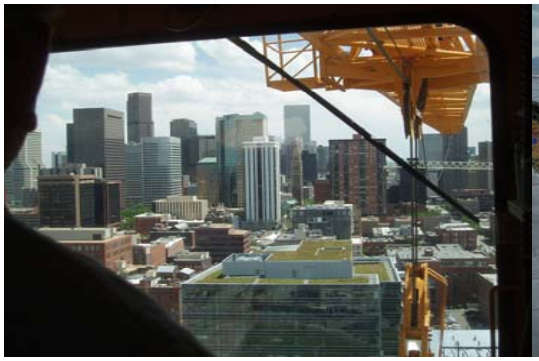
# Outline

OSP Overview

Program Support Program

Regional Science Program

Cross-Agency Science Program



EPA
United States
Environmental Protection
Agency

# OSP Roles and Responsibilities

- Serves as principal staff to the ORD Assistant Administrator on science policy matters
- Integrates ORD science and technology into Agency decisions
- Provides leadership in fulfilling EPA's commitment to scientific integrity in decision-making
- Links ORD's laboratories and centers with program and regional offices, states, tribes, and other organizations.

*Along with the other ORD offices, OSP's "corporate" position further strengthens our ability to work across ORD and Agency silos.*

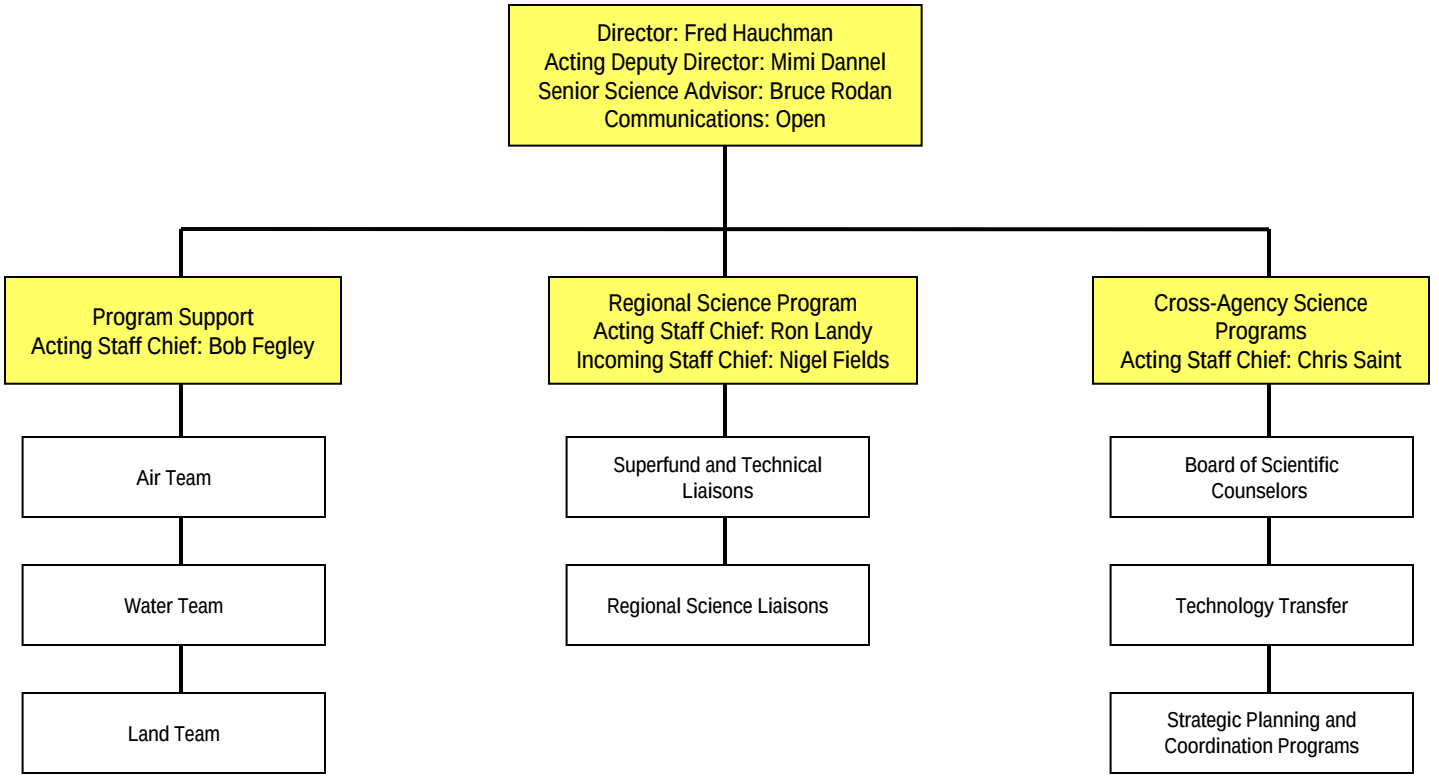
# OSP Customers/Partners

- IOAA
  - We provide staff support to the AA and DAAs for many activities
  - We work with Congressional liaison on OCIR-related reviews
  - NPDs are key partners in Regional Science, Tribal Science, and other OSP programs
- ORD Labs, Centers and Offices
- Program and Regional Offices
- Tribes
- Environmental Justice community
- Other government research agencies, e.g., NIEHS

# OSP Vision

- OSP plays a critical role, both strategically and operationally, in integrating science and technology into Agency decisions.
  - Our key role is recognized both within and outside ORD.
  - Our efforts directly support the ORD mission, Agency strategic goals, and Administrator's priorities
- We actively engage our partners - the Program and Regional Offices, Tribes, as well as the ORD labs, centers, and offices - and effectively communicate research needs and resulting products.

# Office of Science Policy Organizational Chart



# Program Support

Acting Staff Chief: Bob Fegley

*Air Team*

Sarah Mazur, Acting Leader
Tim Benner
Stan Durkee
Amanda Evans

*Water Team*

Bob Cantilli, Leader
Cindy Roberts
Nicole Shao
Danny Weigand
Valerie Blank

*Land Team*

Jackie McQueen, Leader
Dennis Utterback
Jace Cujé
Steve Watkins
Walter Cybulski

EPA United States Environmental Protection Agency

# Program Support

- Provides information and expert judgment with regard to scientific issues and the application of science policies in Agency regulatory and other program activities.
- Specifically, formulates ORD recommendations for use in developing Agency regulations, policies and guidance, and other activities such as testimony, legislation, and reports to Congress.

United States Environmental Protection Agency

# Program Support Activities

## Agency Regulations and Policies

- Tracks program office actions such as regulations, studies, assessments
- Participates in workgroups that develop the actions
- Participates in management briefings and decision meetings
- Coordinates the review of documents within ORD
- Develops consolidated ORD position

## Also plays a role in:

- Requests for Correction and Reconsideration - Information Quality Guidelines process
- Appropriate use of Peer Review
- ORD response to documents circulated for intraagency review by the Office of Management and Budget

# Program Support Activities *(continued)*

## Legislative Analysis

- OMB circulates documents such as Congressional testimony and legislation to ORD for review
  - OSP has the ORD lead to:
    - Provide quick review of legislative materials (e.g., testimony, legislation, Statements of Administration Positions)
    - Track and provide technical assistance on legislation that affects ORD such as for the Beaches Environmental Assessment and Coastal Health (BEACH) Act
- OSP helps ORD prepare testimony and brief Congressional staff

# Regional Science Program

Acting Staff Chief: Ron Landy

Incoming Staff Chief: Nigel Fields

*Headquarters Staff*

Program Coordinator: Maggie LaVay

Administrative: Tia Groves

*Regional Science Liaisons (RSLs)*

R1 – Bob Hillger
R2 – Marie O'Shea
R3 – Stuart Kerzner
R4 – Tom Baugh
R5 – Carole Braverman
R6 – Michael Morton
R7 – Brenda Groskinsky
R8 – Patti Tyler
R9 – Matt Small
R10 – Roseanne Lorenzana

*Superfund & Technology Liaisons (STLs)*

R1 – Steve Mangion
R2 – Jon Josephs
R3 – Bill Hagel
R4 – Felicia Barnett
R5 – Chuck Maurice
R6 – Terry Burton
R7 – Robert Weber
R8 – Kathleen Graham
R9 – Mike Gill
R10 – John Barich

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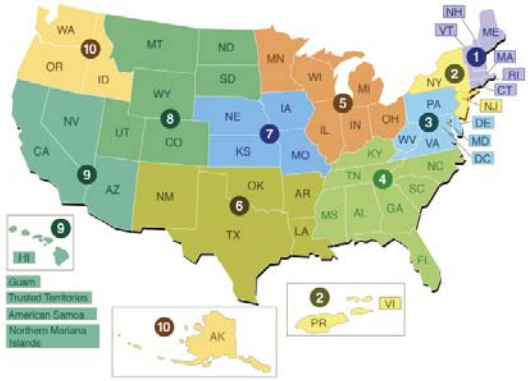
Environmental Protection
Agency

# Regional Science Program




- Headquarters staff plus a Regional Science Liaison (RSL) and Superfund and Technology Liaison (STL) in each region
- Links ORD science with EPA's regions
- Builds networks and partnerships between regional and ORD scientists;
- Transfers research results on high priority regional science issues in support of policy development and environmental decision making
- Supports state and local government environmental management

ORD REGIONAL SCIENCE PROGRAM

# Regional Science Liaisons (RSLs)

The RSLs are a team of ten senior regional scientists/engineers, one in each region, supported by OSP

- Provide guidance for ORD and regional staff on the use of ORD science in regional decision making
- Emphasize the building of networks and partnerships between regional offices and ORD scientists
- Manage the Regional Applied Research Effort (RARE), Regional Methods (RM) and Regional Research Partnership Program ($R_2P_2$)
- Select, plan and implement Regional Science Workshops
- Articulate regional priority science needs to ORD and integrate these needs into the ORD research planning process.

# Regional Applied Research Effort (RARE)

- RARE responds to high-priority, near-term applied research needs of EPA's regions, state and local governments, and tribes
- OSP's Regional Science Program administers RARE
- Regional Science Liaisons (RSLs) manage RARE and assist Regional scientists in the development of RARE proposals
- ORD researchers and Regional scientists work together on RARE projects
- RSLs ensure that RARE research results are effectively communicated and utilized in the regions
- OSP has funded more than 200 RARE projects since 1989

# Regional Methods (RM) Program

The RM Program

- Responds to measurement-related needs of EPA regions and their laboratories
- Focuses on developing the methods necessary for the regions to meet their monitoring and enforcement objectives
- OSP's Regional Science Program administers the RM program
- Regional Science Liaisons (RSLs) work with the Regional Science and Technology Director leads to manage the RM program

Past RM research projects

- Development of assessment protocols, biological and diagnostic indicators, toxicity evaluation methods, and improved sampling methodologies
- OSP has funded thirty-three RM projects since 2004

EPA United States Environmental Protection Agency

# Regional Research Partnership Program (R2P2)

- Offers regional scientists the opportunity to work with scientists in ORD laboratories/centers on research projects of interest to the regions
- Brings a new applied perspective to an ORD research activity, as well as an opportunity to test out new ideas with the regions
- Supports up to ten candidates per year, typically one scientist per region, for up to six months
- RSLs manage the application process
- Goals
  - Link regional technical staff and ORD on priority regional research
  - Establish development opportunity for regional technical staff that allows for performance of research in their discipline
  - Assist regions in maintaining technical training of their staff
- Fifty-nine participants since 2003

# Regional Science Workshops

- OSP sponsors the Regional Science Workshop series
- RSLs and regional staff manage the Regional Science Workshop series
- Workshop objectives:
  - Establish a better cross-Agency understanding of the science applicable to human health and/or ecological topics specific to the regions
  - Develop a network of EPA scientists who will continue to exchange information on these science topics as research and risk management programs progress

## 2009 Workshops

- Cumulative Risk Assessment, 7/09
- Stormwater Management, 10/09

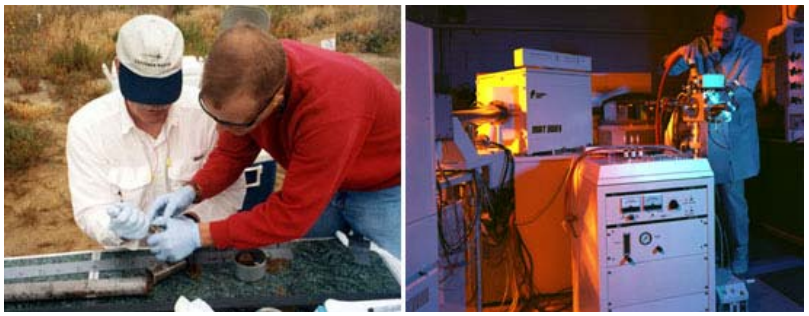
## 2010 Workshops

- Pharmaceuticals and Personal Care Products in the Environment
- Assessing the Health of Environmental Exposures to Children
- Wastewater Reclamation, Recycling and Reuse
- Resilient Water Management Strategies

# Superfund and Technology Liaisons (STLs)

The STLs are a team of ten senior ORD scientists/engineers, one in each region

- Coordinate technical support through ORD's Technical Support Centers and other Agency sources of expertise
- Provide technical support, including site-specific support, to the Superfund, Resource Conservation and Recovery Act (RCRA), and Brownfields programs
- Facilitate technology and information transfer by:
  - conducting training and conferences
  - publishing guidance, issue papers, scientific journal papers
- Provide expertise on issues such as contaminated sediment, ground water, risk assessment, site characterization
- Provided/coordinated technical support for 100 waste sites in FY 2007 and 93 sites in FY 2008



# Technical Support Centers (TSCs)

- Provide specialized technical expertise for scientific tasks or projects for the Regions
- Three main TSCs are part of ORD and respond to 400 – 500 requests each year
- Site Characterization and Monitoring TSC – managed by Region 4 STL Felicia Barnett and supported by OSP
- TSCs review contractor workplans, assist with treatability studies, evaluate remedial technologies, develop and review sampling plans, test innovative technologies, and develop technical transfer papers
- Technical support is the practical application of ORD research!

# Regional Technical Workshops

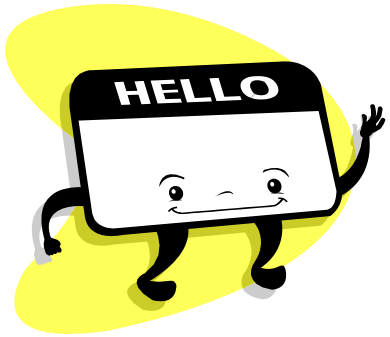
- OSP sponsors Regional Technical Workshops
- Focus on technical issues related to hazardous waste cleanup and on emerging technologies, methods of characterizing contaminants, and specific contaminants of concern
- Superfund and Technology Liaisons (STLs) manage the Regional Technical Workshops

Goals

- Share the latest research
- Discuss improved methods for addressing hazardous waste cleanups, and
- Identify collaborative research opportunities

2009 and 2010 Workshops

- Risk Communication Workshop – November 2009
- Green Remediation Conference – February 2010
- Workshop on Identification of Contaminated Sites to be Considered for the NPL and Discussion of Emerging Mining Practices – April 2010



# Cross-Agency Science Program

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# Cross-Agency Science Program

- OSP plays an important role in a set of high profile programs ensuring that ORD research is relevant and responsive to current environmental concerns
  - Board of Scientific Counselors
  - Technology Transfer
  - Strategic Planning, including the ORD Science Council
  - Tribal Science
  - Multi-media, including International Science Activities
  - Environmental Justice
  - OSP lead for ORD Transformation Activities

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# B·O·S·C

## BOARD OF SCIENTIFIC COUNSELORS

- The Board of Scientific Counselors (BOSC) was established under the Federal Advisory Committee Act (FACA) to provide advice, information, and recommendations about ORD's research program
- OSP manages the BOSC
- The BOSC Executive Committee has up to 15 members, meets 3 to 5 times each year, and can establish subcommittees or workgroups with EPA approval
- BOSC members are scientists and engineers who are recognized experts in their respective fields. The BOSC provides advice and recommendations on…
  - ORD's research programs and research-management practices (key focus: research program quality, relevance, structure, performance, scientific leadership, coordination/communication, and outcomes)
  - Use of peer review
  - Scientific and management issues specific to ORD Offices, National Laboratories, and Centers
  - Human resources planning.

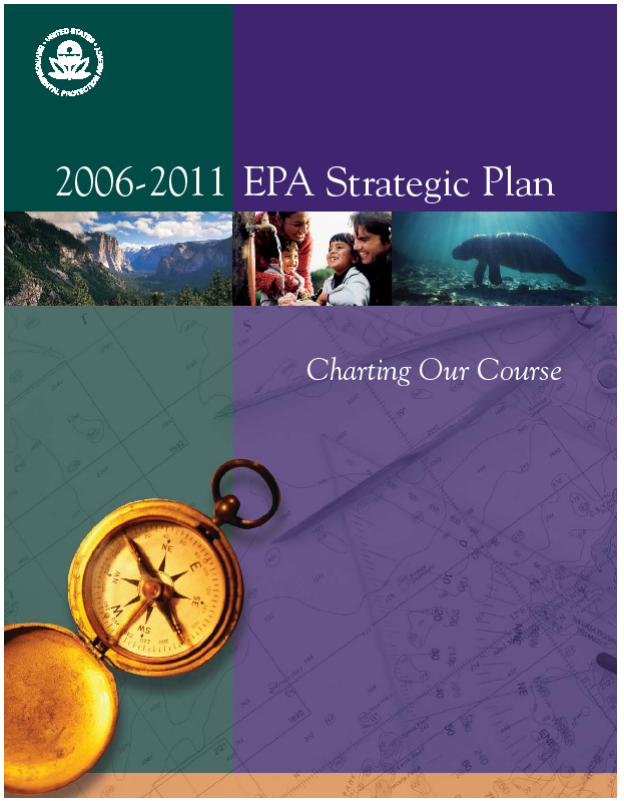
# Strategic Planning

OSP is the planning policy liaison to EPA's Office of the Chief Financial Officer

- Works with the National Program Directors (NPDs) to develop strategic research sub-objectives and targets across all Agency Strategic Goals
- Provides quality control for ORD contribution to Agency Strategic Plan

OSP plays an important role in the Multi-Year Plans (MYP) development process

- Prepares/updates MYP Guidance for the NPDs
- Provides internal peer review of draft MYPs



# ORD Tribal Science

- OSP is the ORD lead for tribal issues and represents ORD on the Indian Program Policy Council (IPPC)
- ORD Senior Indian Program Manager coordinates science issues within ORD and across the Agency's Tribal Program
- ORD Tribal Activities
  - Integrate Tribal research needs into ORD activities
  - Manages Tribal Science Council
  - Conduct Outreach and Communication
    - Science in Indian Country Website
    - Tribal Health Webinar Series
    - Building relationships with Tribal Colleges and Universities such as Haskell Indian Nations University and Salish & Kootenai College
    - National Tribal Conference on Environmental Management co-sponsor/workshop lead
    - Planning 2010 National Tribal Science Forum (follow-up to 2006 National Forum)

# OSP Accomplishments in FY2009

- Science Integration
- Science Coordination
- Science Communication

# *FY2009 Accomplishments*
# Science Integration – Agency Decisions

*Successfully led ORD input into...*

- Key Agency regulations, such as
  - Coal Combustion Residues
  - Perchlorate Regulatory Determination
  - Air Toxics Risk and Technology Review
- Other science integration activities
  - EO12866 revisions workgroup
  - Science Policy Council and Steering Committee
  - Regulatory Steering Committee
  - Information Quality Guidelines
  - Peer Review
  - ORD Clearance Policy

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# *FY2009 Accomplishments*
# Science Integration – Regional Decisions

## *Enhanced ORD's impact and visibility in the Regions*

- Delivered critical research to Regions through the Regional Applied Research Effort (RARE) and Regional Methods (RM)
- Funded 30 RARE and 8 RM projects across ORD
  - Improved integration of projects into overall ORD research portfolio
  - Numerous projects aligned with Administrator priorities
- Enabled "hands on" learning and strengthened ORD/regional linkages through the Regional Research Partnership Program
- Improved cleanup efforts at ≈100 Superfund sites through STL direct technical support and access to ORD expertise/products

# *FY2009 Accomplishments*
# Science Coordination

*Successfully led high visibility and other important coordination efforts with internal and external partners*

- Coordinated ORD response to Agency "hot" priorities
  - PCBs in Caulk
  - Tire Crumbs
  - PFOAs in Decatur, AL
  - Recreational Waters
  - Mountaintop Mining in Region 3
- Led the ORD review of 229 OCIR review requests for the current Congress (since February)
  - Of these, ORD has responded with comments or other materials for roughly a third (70)

# Science Coordination *(cont.)*

- **Strengthened tribal participation** in ORD research programs
  - Incorporated a tribal component into the Southwest Ecosystem Services Project
  - Addressed tribal priorities through the RARE program
- **Enhanced interagency coordination** (e.g., NIEHS, USGS, DOI, State Dept.)
- **Effectively coordinated BOSC** Executive Committee and Subcommittees
  - Final reports from five subcommittees completed
    - Based on previous experience, we expect a significant percentage of recommendations to be implemented by the research programs
  - Formed four new program subcommittees
  - Initiated special projects, in collaboration with ORMA
    - Effectiveness of the BOSC as a program performance evaluation and management tool
    - Decision analytic tools for prioritizing research

# Science Coordination *(cont.)*

## *A banner year for Technology Transfer*

- Effectively promoted the development and licensing of cutting edge Agency science and technology, in fulfillment of FTTA statutory mandate
  - 22 new traditional CRADAs (up from 17 in FY08)
  - 62 new non-traditional CRADAs or MTAs (up from 32 in FY08)
  - 9 new Employee Reports of Invention
  - 3 new licensing agreements
- Resulted in commitments of over $4.8 M (combined in-kind and cash) from CRADA partners

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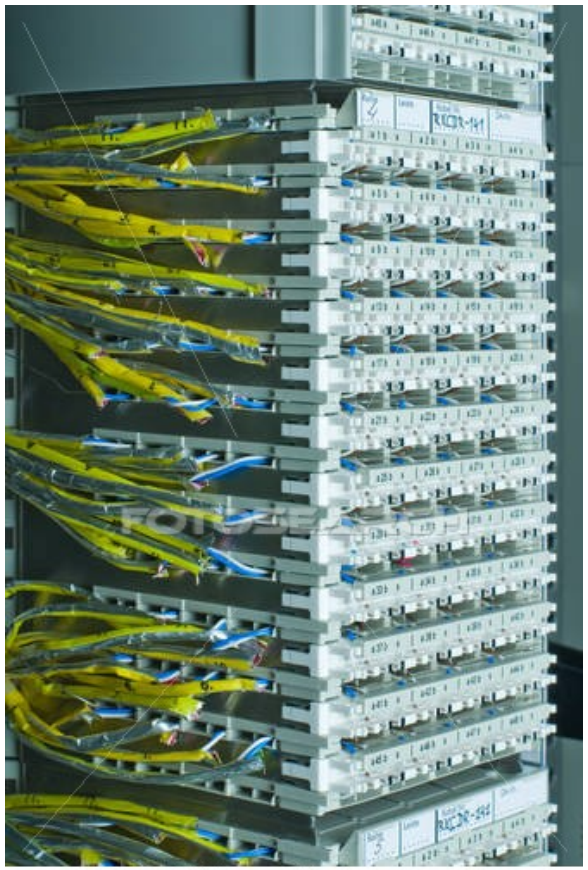
# *FY2009 Accomplishments*
# Science Communication

*OSP facilitated information flow in many directions*

- IOAA
- ORD Labs/Centers
- Program Offices
- Regional Offices
- Tribes
- Other Agencies



# Science Communication *(cont.)*

- Organized **seminars** on priority science areas
  - Children's Health seminar series for Regional Children's Health Coordinators
  - Water Seminars (13) in coordination with OW and Drinking Water NPD
- Delivered highly successful **regional science workshops** to address regional priority topics, promote ORD research and establish networks
  - Green Infrastructure
  - Cumulative Risk Assessment (including tribal perspectives)
  - National Forum on Vapor Intrusion
  - International Nanotechnology Conference
- Launched effort to raise **visibility of regional program** activities
- Utilized the **Tribal Science Council** as an excellent forum for communication among Tribes, ORD, Program and Regional Offices
- Organized **ad hoc communication activities**, e.g., Air toxics briefing by OAR