

2024 Current Fiscal Year Report: EPA Board of Scientific Counselors

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1. Department or Agency

Environmental Protection Agency

2. Fiscal Year

2024

3. Committee or Subcommittee

EPA Board of Scientific
Counselors

**3b. GSA Committee
No.**

5132

4. Is this New During Fiscal Year? **5. Current Charter** **6. Expected Renewal Date** **7. Expected Term Date**

No 04/05/2022 04/05/2024

8a. Was Terminated During Fiscal Year? **8b. Specific Termination Authority** **8c. Actual Term Date**

No

9. Agency Recommendation for Next Fiscal Year **10a. Legislation Req to Terminate?** **10b. Legislation Pending?**

Continue

No

Not Applicable

11. Establishment Authority Agency Authority

12. Specific Establishment Authority **13. Effective Date** **14. Committee Type** **14c. Presidential?**

02/23/1996 Continuing No

15. Description of Committee Scientific Technical Program
Advisory Board

16a. Total Number of Reports No Reports for
this Fiscal Year

17a. Open 0 **17b. Closed** 0 **17c. Partially Closed** 0 **Other Activities** 0 **17d. Total** 0

Meetings and Dates

No Meetings

**Current Next
FY FY**

18a(1). Personnel Pmts to Non-Federal Members	\$0.00 \$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00 \$0.00
18a(3). Personnel Pmts to Federal Staff	\$0.00 \$0.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00 \$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$0.00 \$0.00
18b(2). Travel and Per Diem to Federal Members	\$0.00 \$0.00
18b(3). Travel and Per Diem to Federal Staff	\$0.00 \$0.00
18b(4). Travel and Per Diem to Non-member Consultants	\$0.00 \$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	\$0.00 \$0.00
18d. Total	\$0.00 \$0.00
19. Federal Staff Support Years (FTE)	0.00 0.00

20a. How does the Committee accomplish its purpose?

The BOSC was reconstituted through a comprehensive outreach and nomination process over the past year. The BOSC will review all of ORD's research and deliver reports answering ORD's charge questions.

20b. How does the Committee balance its membership?

The selection of board members who are appropriately highly qualified, diverse, and have broad experience in the fields of science, engineering, and the social sciences, is crucial to the success of BOSC. Selected individuals must be nationally recognized experts as judged by their research record, publications, and

professional standing in their respective community. Balance in disciplines and area of expertise is essential for the work to be performed on the BOSC committee. Balance in work sector/employing institution, and geographic distribution area is desirable. Work sectors currently represented on the BOSC EC include: academia, industry, research institutes, environmental consulting firms, and environmental organization/association.

20c. How frequent and relevant are the Committee Meetings?

The BOSC Executive Committee and subcommittee are expected to meet approximately 1-3 times a year. In FY23 BOSC met two times. Meetings are relevant to the EPA/ORD research agenda because they provide the opportunity to receive advice and recommendations from recognized experts for the purpose of strategically focusing and continually improving the research programs. Meetings are timely because they help the research programs keep current with the continuing advances in science and technology, and help provide feedback and input from the continually changing needs of the users of ORD's research outputs, tools, and products.

20d. Why can't the advice or information this committee provides be obtained elsewhere?

ORD conducts leading-edge research and fosters the use of science and technology to fulfill EPA's mission. The BOSC was established to support this mission of providing the highest quality scientific and engineering knowledge and tools to serve as the basis for sound environmental decisions. The BOSC is essential to ORD's success by: providing advice on research and development to identify, understand, and solve

current and future environmental problems; reviewing ORD's technical support to EPA's program and regional offices; providing leadership in assisting ORD in identifying emerging environmental issues; and, helping to advance the science and technology of risk assessment and risk management. The BOSC conducts comprehensive retrospective and prospective technical reviews of ORD's research programs and provides objective and independent counsel to the ORD Assistant Administrator. BOSC not only conducts program reviews but also evaluates the utilization of peer review within ORD – both functions that cannot be performed by the Agency itself. ORD has been implementing external reviews of its research programs via the BOSC mechanism. BOSC reviews of ORD research programs include input on ORD's past performance and future directions. The BOSC has completed over 30 in-depth program reviews of ORD's research programs since it began conducting these reviews. External reviews are considered vitally important to help ORD: plan, implement, and strengthen its research programs; compare the program with programs designed to achieve similar outcomes in other parts of EPA and in other federal agencies and non governmental organizations; make research investment decisions over the next five years; prepare EPA's performance and accountability reports to Congress; and respond to evaluations of federal research. EPA continues to need a body such as BOSC to provide objective, independent, external advice on ORD's research programs, focusing on their strategic direction, management processes, quality, relevance, and performance.

20e. Why is it necessary to close and/or partially closed committee meetings?

No meetings were closed or partially closed.

21. Remarks

Members are Tier 1 (parent committee members) or Tier 2 (subcommittee) members. In some cases, a member may be both Tier 1 and Tier 2.

Designated Federal Officer

Thomas Tracy Designated Federal Officer

Committee Members	Start	End	Occupation	Member Designation
Becker, Richard	12/29/2017	02/28/2025	Senior Toxicologist and Director, American Chemistry Council	Special Government Employee (SGE) Member
Boles, Laureen	03/14/2022	02/28/2025	Founder, E4 Progress Planning and Engineering	Special Government Employee (SGE) Member
Burroughs, Melissa	03/14/2022	02/28/2025	General Cardiologist, Stanford Health Care	Special Government Employee (SGE) Member
Burton, G	03/14/2022	02/28/2025	Professor of Environment, University of Michigan	Special Government Employee (SGE) Member
Carrillo, Genny	03/14/2022	02/28/2025	Associate Professor of Health and Director of Program on Asthma, Texas A&M University School of Public Health	Special Government Employee (SGE) Member
Chanes, Christina	03/14/2022	02/28/2025	Extension Agent 1, University of the Virgin Islands	Special Government Employee (SGE) Member
Cohan, Daniel	03/14/2022	02/28/2025	Associate Professor of Engineering, Rice University	Special Government Employee (SGE) Member
Collins, Timothy	03/14/2022	02/28/2025	Director of Undergraduate Studies in Geography Department, University of Utah	Special Government Employee (SGE) Member

Corley, Tracy	03/14/2022	02/28/2025	Director of Research and Partnerships, Conservation Law Foundation	Special Government Employee (SGE) Member
Crimi, Michelle	03/14/2022	02/28/2025	Dean of Graduate School, Clarkson University	Special Government Employee (SGE) Member
Croes, Bart	12/29/2017	02/28/2025	Chief of Research (retired), California Air Resources Board	Special Government Employee (SGE) Member
Dearing, James	03/14/2022	02/28/2025	Professor of Communication, Michigan State University	Special Government Employee (SGE) Member
Gee, Gilbert	03/14/2022	02/28/2025	Professor of Public Health, University of California, Los Angeles	Special Government Employee (SGE) Member
Georgescu, Matei	03/14/2022	02/28/2025	Associate Professor of Geographical Sciences, Arizona State University	Special Government Employee (SGE) Member
Gilman, Paul	12/29/2017	02/28/2025	Tier 1, EC Chair, (12/29/2017-12/28/2020), Chief Sustainability Officer, Covanta, Morristown, NJ	Special Government Employee (SGE) Member
Golden, Jay	12/29/2017	02/28/2025	Pontarelli Professor of Environmental Sustainability & Finance, Syracuse University	Special Government Employee (SGE) Member
Grineski, Sara	03/14/2022	02/28/2025	Professor of Sociology and Environmental Studies, University of Utah	Special Government Employee (SGE) Member
Hollis, Adrienne	03/14/2022	02/28/2025	Principal and Founder, Hollis Environmental Consulting, LLC	Special Government Employee (SGE) Member
Jacobs, Katharine	03/14/2022	02/28/2025	Director of Center for Climate Adaptation Science and Solutions, University of Arizona	Special Government Employee (SGE) Member

Jha, Manoj	03/14/2022	02/28/2025	Professor of Engineering, North Carolina A&T State University	Special Government Employee (SGE) Member
Johnson, Lucinda	12/29/2017	02/28/2025	Tier 1 and Tier 2, EC Vice Chair, (12/29/2017-12/28/2020), Associate Institute Director, Natural Resources Research Institute, Duluth, MN	Special Government Employee (SGE) Member
Juberg, Daland	12/29/2017	02/28/2025	Principal Consultant, Juberg Toxicology Consulting LLC	Special Government Employee (SGE) Member
Keeler, Bonnie	03/14/2022	02/28/2025	Associate Professor of Water Management and Policy, University of Minnesota	Special Government Employee (SGE) Member
Kinney, Patrick	03/14/2022	02/28/2025	Inaugural Beverly Brown Professor of Urban Health, Boston University	Special Government Employee (SGE) Member
Kleinman, Michael	12/29/2017	02/28/2025	Professor of Toxicology and Co-Director, University of California, Irvine	Special Government Employee (SGE) Member
Lamarque, Jean-Francois	03/14/2022	02/28/2025	Director of the Climate and Global Dynamics Laboratory, National Center for Atmospheric Research	Special Government Employee (SGE) Member
Lanza, Kevin	03/14/2022	02/28/2025	Assistant Professor of Public Health, UHealth School of Public Health	Special Government Employee (SGE) Member
Lee, Arthur	03/14/2022	02/28/2025	Fellow and Principal Advisor, Chevron	Special Government Employee (SGE) Member
Lee, Stephen	03/14/2022	02/28/2025	Senior Scientist, US Army Research Office	Special Government Employee (SGE) Member

Lee, Woo Hyung	03/14/2022	02/28/2025	Associate Professor of Environmental Engineering, University of Central Florida	Special Government Employee (SGE) Member
Lin, Jane	03/14/2022	02/28/2025	Professor of Engineering, University of Illinois, Chicago	Special Government Employee (SGE) Member
Lohmann, Rainer	12/29/2017	02/28/2025	Professor of Oceanography The, University of Rhode Island	Special Government Employee (SGE) Member
Madrigano, Jaime	03/14/2022	02/28/2025	Associate Professor of Environmental Health, John Hopkins University	Special Government Employee (SGE) Member
Mantus, Ellen	03/14/2022	02/28/2025	Director of Science, Health Effects Institute	Special Government Employee (SGE) Member
McElwee, Pamela	03/14/2022	02/28/2025	Professor of Human Ecology, Rutgers University	Special Government Employee (SGE) Member
Morrow, Jayne	03/14/2022	02/28/2025	Assistant Vice President and Associate Research Professor of Civil Engineering, Montana State University	Special Government Employee (SGE) Member
Mulchandani, Anjali	03/14/2022	02/28/2025	Assistant Professor of Engineering, University of New Mexico	Special Government Employee (SGE) Member
Naidenko, Olga	03/14/2022	02/28/2025	Vice President of Science Investigations, Environmental Working Group	Special Government Employee (SGE) Member
Neumann, Rebecca	03/14/2022	02/28/2025	Associate Professor of Engineering, University of Washington	Special Government Employee (SGE) Member
Ramirez-Andreotta, Monica	03/14/2022	02/28/2025	Associate Professor of Environmental Health, University of Arizona	Special Government Employee (SGE) Member

Ristroph, Barrett	12/29/2017	02/28/2025	Principal, Ristroph Law, Planning, and Research	Special Government Employee (SGE) Member
Rockett Sapp, Corie	03/14/2022	02/28/2025	Principal Management Consultant, Arcadis US Inc	Special Government Employee (SGE) Member
Roy, Siddhartha	03/14/2022	02/28/2025	Environmental Engineer and Research Scientist, Virginia Tech	Special Government Employee (SGE) Member
Saikawa, Eri	03/14/2022	02/28/2025	Associate Professor of Environment, Emory University	Special Government Employee (SGE) Member
Saleh, Mahmoud	03/14/2022	02/28/2025	Professor of Chemistry, Texas Southern University	Special Government Employee (SGE) Member
Schmeltz, Michael	03/14/2022	02/28/2025	Assistant Professor of Public Health, California State University, East Bay	Special Government Employee (SGE) Member
Shendell, Derek	12/29/2017	02/28/2025	Associate Professor of Environmental Health Sciences, Rutgers University School of Public Health	Special Government Employee (SGE) Member
Simon, Gregory	03/14/2022	02/28/2025	Associate Professor of Geography and Environment, University of Colorado, Denver	Special Government Employee (SGE) Member
Smith, Sean	03/14/2022	02/28/2025	Associate Professor of Watershed Science, University of Maine	Special Government Employee (SGE) Member
Tansel, Berrin	03/14/2022	02/28/2025	Professor of Environmental Engineering, Florida International University	Special Government Employee (SGE) Member

			Tier 1 and Tier 2, Vice Chair HS (12/29/2017-12/28/2020),	Special Government
Teegarden, Justin	12/29/2017	02/28/2025	Staff Scientist, Pacific Northwest National Laboratory, Richland, WA	Employee (SGE) Member
Teichman, Kevin	03/14/2022	02/28/2025	Adjunct Professor, Georgetown University	Special Government Employee (SGE) Member
Thurston, George	03/14/2022	02/28/2025	Director of the Program in Exposure Assessment and Health Effects, New York University School of Medicine	Special Government Employee (SGE) Member
Torres, Gerald	03/14/2022	02/28/2025	Professor of Environmental Justice, Yale University	Special Government Employee (SGE) Member
Treinish, Lloyd	03/14/2022	02/28/2025	Distinguished Engineer and Chief Scientist, IBM Research	Special Government Employee (SGE) Member
Tulis, Dana	12/29/2017	02/28/2025	Director of Emergency Management, U.S. Coast Guard	Special Government Employee (SGE) Member
Upperman, Crystal	03/14/2022	02/28/2025	Vice President, AECOM	Special Government Employee (SGE) Member
Wallington, Tim	03/14/2022	02/28/2025	Senior Technical Leader, Ford Motor Company	Special Government Employee (SGE) Member
Weisberg, Stephen	12/29/2017	02/28/2025	Executive Director, Southern California Coastal Water Research Project Authority	Special Government Employee (SGE) Member
White, John	12/29/2017	02/28/2025	Professor of Oceanography, Louisiana State University	Special Government Employee (SGE) Member

Wilson, Robyn	03/14/2022	02/28/2025	Professor of Risk Analysis and Decision Science, Ohio State University	Special Government Employee (SGE) Member
Woodruff, Tracey	03/14/2022	02/28/2025	Professor of Ob/Gyn and Reproductive Sciences, University of California, San Francisco	Special Government Employee (SGE) Member
Woods, Courtney	03/14/2022	02/28/2025	Associate Professor of Environmental Health, University of North Carolina, Chapel Hill	Special Government Employee (SGE) Member
Wright, Kelly	03/14/2022	02/28/2025	Environmental Waste Management Program Manager, Shoshone Bannock Tribes	Special Government Employee (SGE) Member
de Jesus Crespo, Rebeca	03/14/2022	02/28/2025	Assistant Professor of Environmental Services, Louisiana State University	Special Government Employee (SGE) Member

Number of Committee Members Listed: 65

Narrative Description

The BOSC conducts comprehensive retrospective and prospective technical reviews of ORD's research programs. The BOSC provides advice and recommendations on ORD's individual research programs and overall research effort. This includes evaluating ORD's science and engineering programs and plans, the performance of ORD's centers, research-management practices. Recommendations focus on specific actions ORD can take to improve the quality, relevance, and performance (e.g., timeliness, and demonstrated impact of its research in support of EPA's mission (i.e., in support of the science and engineering research needs of EPA's Program and Regional Offices and ORD's role as a leader in the environmental research community)). BOSC reports are recognized as significant inputs into the evolution of all parts of the ORD R&D program, ensuring that ORD not only "does the right science" but "does the science right." ORD's use of the BOSC meets the critical need for independent program evaluations and program improvement recommendations. The BOSC reports and ORD's responses have been used as key evidence in OMB's

reviews to assess the extent to which independent evaluations demonstrate that ORD's programs are effective, as well as the extent to which ORD programs are taking actions to improve performance. The BOSC Executive Committee met four times to review and concur on subcommittee reports as well as conducted a consultation on environmental justice and equity.

What are the most significant program outcomes associated with this committee?

	Checked if Applies
Improvements to health or safety	<input checked="" type="checkbox"/>
Trust in government	<input checked="" type="checkbox"/>
Major policy changes	<input type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input type="checkbox"/>
Improved service delivery	<input checked="" type="checkbox"/>
Increased customer satisfaction	<input checked="" type="checkbox"/>
Implementation of laws or regulatory requirements	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

Outcome Comments

BOSC reports are recognized as significant input into the evolution of ORD's R&D program and will result in changes to ORD's strategic directions and research plans.

What are the cost savings associated with this committee?

	Checked if Applies
None	<input type="checkbox"/>
Unable to Determine	<input checked="" type="checkbox"/>
Under \$100,000	<input type="checkbox"/>
\$100,000 - \$500,000	<input type="checkbox"/>
\$500,001 - \$1,000,000	<input type="checkbox"/>
\$1,000,001 - \$5,000,000	<input type="checkbox"/>
\$5,000,001 - \$10,000,000	<input type="checkbox"/>
Over \$10,000,000	<input type="checkbox"/>
Cost Savings Other	<input type="checkbox"/>

Cost Savings Comments

NA

What is the approximate Number of recommendations produced by this committee for the life of the committee?

699

Number of Recommendations Comments

EPA has responded to one of the reports which included 13 recommendations.

What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?

87%

% of Recommendations Fully Implemented Comments

ORD is currently preparing their response to the report.

What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?

13%

% of Recommendations Partially Implemented Comments

ORD is currently preparing their response to the report.

Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?

Yes ☒ No ☐ Not Applicable ☐

Agency Feedback Comments

The Assistant Administrator for the Office of Research and Development (ORD) transmits a letter to the Chair of the Board of Scientific Counselors (BOSC), indicating how and when ORD will address and implement the recommendations/advice provided by the BOSC. This letter and any attachments are posted along with the respective BOSC report on the BOSC internet website at <https://www.epa.gov/bosc>

What other actions has the agency taken as a result of the committee's advice or recommendation?

Checked if Applies

- | | |
|-----------------------------------|-------------------------------------|
| Reorganized Priorities | <input checked="" type="checkbox"/> |
| Reallocated resources | <input checked="" type="checkbox"/> |
| Issued new regulation | <input type="checkbox"/> |
| Proposed legislation | <input type="checkbox"/> |
| Approved grants or other payments | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |

Action Comments

No comments

Is the Committee engaged in the review of applications for grants?

No

Grant Review Comments

NA

How is access provided to the information for the Committee's documentation?

Checked if Applies

- | | |
|---------------------------|-------------------------------------|
| Contact DFO | <input checked="" type="checkbox"/> |
| Online Agency Web Site | <input checked="" type="checkbox"/> |
| Online Committee Web Site | <input checked="" type="checkbox"/> |
| Online GSA FACA Web Site | <input checked="" type="checkbox"/> |
| Publications | <input checked="" type="checkbox"/> |
| Other | <input type="checkbox"/> |

Access Comments

No comments.