



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D.C. 20460**

**OFFICE OF THE ADMINISTRATOR
SCIENCE ADVISORY BOARD**

January 28, 2015

EPA-SAB-15-006

The Honorable Gina McCarthy
Administrator
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

Subject: Additional SAB Recommendations for EPA's FY2013 Scientific and Technological
Achievement Awards

Dear Administrator McCarthy:

The EPA Science Advisory Board (SAB) is pleased to transmit its additional recommendations for the EPA's FY 2013 Scientific and Technological Achievement Awards (STAA). EPA's STAA program was established by the agency in 1980 to recognize EPA employees who have made outstanding contributions to the advancement of science and technology through their publications in peer-reviewed literature or books. Each year since the early 1980's, the SAB has been asked by EPA's Office of Research and Development (ORD) to review EPA's nominated scientific publications and make recommendations to the EPA for awards.

In July 2013, ORD submitted to the EPA Science Advisory Board (SAB) Staff Office 105 nominations for 2013 STAA awards in 14 possible science and technology categories. On January 13, 2014, the SAB provided its report to you with recommendations for the EPA's FY 2013 STAA program. In September 2014, the SAB received 15 additional nominations from ORD for review for the 2013 STAA program. After considering these additional nominations in a separate meeting, the SAB is pleased to transmit its recommendations for 2013 STAA recognition for these additional nominations. In the enclosed report, the SAB recommends two for a Level II award and 7 for Honorable Mention.

The SAB recommends that the EPA implement various activities to further strengthen the STAA program as well as facilitating the SAB review of future STAA nominations. These recommendations are described in a separate SAB Advisory Report, entitled *SAB Recommendations for EPA's FY 2014 Scientific and Technological Achievement Awards*.

The SAB applauds the EPA's public recognition of the scientific work of EPA scientists and engineers that is published in the peer-reviewed literature, and is pleased to continue to play an important role in the STAA program.

Sincerely,

/unsigned/

Dr. David T. Allen, Chair
EPA Science Advisory Board

/unsigned/

Dr. George Daston, Chair
SAB Scientific and Technological
Achievement Awards Committee

Enclosure

NOTICE

This report has been written as part of the activities of the EPA Science Advisory Board, a public advisory group providing extramural scientific information and advice to the Administrator and other officials of the Environmental Protection Agency. The Board is structured to provide balanced, expert assessment of scientific matters related to the problems facing the Agency. This report has not been reviewed for approval by the Agency and, hence, the contents of this report do not represent the views and policies of the Environmental Protection Agency, nor of other agencies in the Executive Branch of the Federal government, nor does mention of trade names or commercial products constitute a recommendation for use. Reports of the EPA Science Advisory Board are posted on the EPA website at <http://www.epa.gov/sab>.

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1. BACKGROUND AND SAB REVIEW PROCEDURE

1.1. Background

EPA's Scientific and Technological Achievement Awards program (STAA) was established in 1980 to recognize the agency's scientists and engineers who published their technical work in the peer-reviewed literature. The STAA program is administered and managed by the EPA Office of Research and Development (ORD). Each year, the EPA Science Advisory Board (SAB) has been asked to review the EPA's nominated scientific publications and make recommendations for awards. The SAB was charged to review nominations and provide recommendations for each nomination in consideration of the EPA's criteria for STAA awards. The EPA announced the call for nominations for the 2013 STAA program to senior managers and employees in January 2013. ORD screened nominations for conformance with EPA's *STAA Nomination Procedures and Guidelines*. The Guidelines describe the award levels, eligibility criteria, and the award criteria.

The SAB Staff Office formed a new SAB STAA Committee in 2012 to annually review EPA's STAA nominations. The Committee members were invited to serve for a three-year term. The Committee was formed in accordance with the SAB process as described in the SAB 2002 publication, *Panel Formation Process: Immediate Steps to Improve Policies and Procedures* (EPA-SAB-EC-COM-02-003).

In July 2013, ORD submitted to the SAB Staff Office 105 nominations for 2013 STAA awards in 14 possible science and technology categories. On January 13, 2014, SAB submitted its report (EPA-SAB-14-002) with recommendations for the EPA's FY 2013 STAA program. The SAB excluded two nominations from consideration since they did not meet the eligibility criteria. Of the 103 remaining nominations, the SAB recommended no nominations for Level I, the highest award; 8 for Level II; 27 for Level III, and 38 for Honorable Mention.

In September 2014, ORD submitted 15 additional nominations to the SAB for review and consideration for 2013 STAA recognition. The SAB excluded one of the 15 additional nominations from review since it was considered previously for 2013 STAA recognition.

1.2. SAB Review Procedure

The EPA's criteria for STAA Program awards are as follows:

- Level I awards are for nominees who have accomplished an exceptionally high-quality research or technological effort. The nomination should recognize the creation or general revision of a scientific or technological principle or procedure, or a highly significant improvement in the value of a device, activity, program, or service to the public. It must be at least of national significance or have high impact on a broad area of science/technology. The nomination must be of far reaching consequences and recognizable as a major scientific/technological achievement within its discipline or field of study.
- Level II awards are for nominees who have accomplished a notably excellent research or technological effort that has qualities and values similar to, but to a lesser degree, than those described under Level I. It must have timely consequences and contribute as an important scientific/technological achievement within its discipline or field of study.

- Level III awards are for nominees who have accomplished an unusually notable research or technological effort. The nomination can be for a substantial revision or modification of a scientific/technological principle or procedure, or an important improvement to the value of a device, activity, program, or service to the public. It must relate to a mission or organizational component of the EPA, or significantly affect a relevant area of science/technology.
- Honorable Mention is for nominations which are noteworthy but which do not warrant a Level I, II or III award. Honorable Mention applies to nominations that: (1) may not quite reach the level described for a Level III award; (2) show a promising area of research that the SAB wants to encourage; or (3) show an area of research that the SAB believes is too preliminary to warrant an award recommendation at this time.

The SAB review consisted of a two-step process: an initial review of each nomination, followed by a Committee discussion of all nominations. The initial review of each nomination was conducted by two members. Committee members provided their individual initial ratings of the nominations based on the EPA's award criteria as described above.

The SAB STAA Committee met at a closed teleconference on November 7, 2014, to develop recommendations to the EPA Administrator regarding these additional 2013 STAA nominations. The teleconference was closed to the public because the Committee discussions involved personnel matters, including the relative merits of various employees and their respective work, the disclosure of which would be a clearly unwarranted invasion of personal privacy and, therefore, protected from disclosure by section (c)(6) of the Government in the Sunshine Act, 5 U.S.C. 552b(c)(6). Committee members discussed all of the 14 additional nominations, and reached consensus on the recommendations for awards. To avoid an appearance of a lack of impartiality, one member was recused from the Committee deliberations on one nomination. The Committee's recommendations were discussed and agreed upon by consensus by the chartered SAB during a closed meeting on January 26, 2015.

2. COMPARISON OF AWARD RECOMMENDATIONS OVER TIME

Table 1 summarizes the awards recommended by year since 2000 (including the initial and additional recommendations for 2013, and a final summary of 2013 recommendations).

For the additional 14 STAA recommendations for 2013, the Committee recommended no nominations for Level I, the highest award; 2 for Level II; none for Level III, and 7 for Honorable Mention. Section 3 lists the recommended awards for Level II and nominations that deserve an Honorable Mention for the 2013 additional nominations. The final rankings were agreed to by consensus at the STAA Committee teleconference on November 7, 2014. The Committee's recommendations were discussed and agreed upon by consensus by the chartered SAB during a closed meeting on January 26, 2015.

Table 1. Comparison of Award Recommendations over Time

Award Level	Nominations Reviewed	Level I	Level II	Level III	Honorable Mention	Not Recommended
FY 2000	102	0	5 (5%)	36 (35%)	20 (20%)	41 (40%)
FY 2001	126	2 (2%)	11 (9%)	29 (23%)	21 (17%)	63 (50%)
FY 2002	140	4 (3%)	7 (5%)	26 (19%)	39 (28%)	64 (46%)
FY 2003	136	7 (5%)	18 (13%)	29 (21%)	33 (24%)	49 (36%)
FY 2004	146	6 (4%)	6 (4%)	32 (22%)	37 (25%)	58 (40%)
FY 2005	110	3 (3%)	6 (5%)	30 (27%)	31 (28%)	40 (36%)
FY 2006	90	5 (6%)	11 (12%)	29 (32%)	26 (29%)	19 (21%)
FY 2007	140	5 (4%)	13 (9%)	37 (26%)	45 (32%)	40 (29%)
FY 2008	130	5 (4%)	16 (12%)	30 (21%)	43 (33%)	36 (28%)
FY 2009	109	3 (3%)	22 (20%)	31 (28%)	25 (23%)	28 (26%)
FY 2010	121	5 (4%)	14 (12%)	42 (35%)	33 (27%)	27 (22%)
FY 2011	130	3 (2%)	13 (10%)	35 (27%)	44 (34%)	35 (27%)
FY 2012	104	4 (4%)	10 (10%)	29 (28%)	36 (35%)	25 (24%)
[Initial FY 2013 Nominations]	103	0	8 (8%)	27 (26%)	38 (37%)	30 (29%)
[Additional FY 2013 Nominations]	14	0	2 (14%)	0	7 (50%)	5 (36%)
Total FY 2013 Nominations	117	0	10 (9%)	27 (23%)	45 (38%)	35 (30%)

3. ADDITIONAL 2013 NOMINATIONS RECOMMENDED FOR STAA AWARDS

Notes: The percentages given after each name represent the percent of the total level of effort as documented in the EPA nomination. All nominations were from the ORD National Health and Environmental Effects Research Laboratory (NHEERL).

Nominations Recommended for a Level I Award -- None
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Nominations Recommended for a Level II Award -- Total of 2		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S13ER0111	An Approach to Developing Numeric Water Quality Criteria for Using the SeaWiFS Satellite Data Record Environ. Sci. Technol., 46: 916–922	Dr. Schaeffer, Blake A. (45%) Dr. Hagy, III, James D. (40%) Dr. Conmy, Robyn N. (5%) Dr. Lehrter, John C. (5%) Dr. Stumpf, Richard P. (5% Non-EPA) NHEERL
S13HE0120	Rapidly Measured Indicators of Recreational Water Quality and Swimming-associated Illness at Marine Beaches: a Prospective Cohort Study Environmental Health/Open Access/Online, 9(66): 1-14	Dr. Wade, Timothy J. (12%) Ms. Sams, Elizabeth (10%) Dr. Brenner, Kristen P. (10%) Dr. Haugland, Rich (10%) Dr. Wymer, Larry (10%) Dr. Dufour, Alfred P. (10%) Dr. Rankin, Clifford (7%) Dr. Beach, Michael J. (7% Non-EPA) Mr. Li, Quanlin (7% Non-EPA) Dr. Chern, Eunice (7% Non-EPA) Dr. Love, David (5% Non-EPA) Dr. Noble, Rachel (5% Non-EPA) NHEERL

Nominations Recommended for a Level III Award - None

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 7

Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S13ER0108	Ecosystem Services of Coastal Habitats and Fisheries: Multi-scale Ecological and Economic Modeling Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science, 4:573–586	Dr. Jordan, Steve (60%) Dr. O'Higgins, Timothy (30% Non-EPA) Mr. Dittmar, John (10% Non-EPA) NHEERL
S13ER0109	Ecosystem Development after Mangrove Wetland Creation: Plant-Soil Change Across a 20-Year Chronosequence Ecosystems, 15: 848–866	Dr. Osland, Michael J. (26%) Dr. Spivak, Amanda C. (8%) Dr. Nestlerode, Janet (8%) Mr. Almario, Alejandro (8%) Dr. Russell, Marc J. (5%) Mr. Dantin, Darrin D. (5%) Mr. Harvey, James E. (5%) Dr. Lessmann, Jennine M. (8% Non-EPA) Mr. Heitmuller, Paul T. (8% Non-EPA) Mr. Alvarez, Federico (8% Non-EPA) Dr. Krauss, Ken W. (5% Non-EPA) Mr. From, Andrew S. (2% Non-EPA) Dr. Cormier, Nicole (2% Non-EPA) Dr. Stagg, Camille L. (2% Non-EPA) NHEERL
S13ER0110	Sediment-Water Fluxes of Dissolved Inorganic Carbon, O ₂ , Nutrients, and N ₂ from the Hypoxic Region of the Louisiana Continental Shelf Biogeochemistry, 109:233–252	Dr. Lehrter, John C. (60%) Mr. Beddick, David L. (25%) Dr. Devereux, Richard (5%) Ms. Yates, Diane F. (5%) Dr. Murrell, Michael C. (5%) NHEERL
S13MM0114	Use of Computed Tomography Imaging for Quantifying Coarse Roots, Rhizomes, Peat, and Particle Densities in Marsh Soils Ecological Applications, 21(6): 2156–2171	Dr. Davey, Earl W. (30%) Dr. Wigand, Cathleen (30%) Ms. Johnson, Roxanne L. (15%) Ms. Sundberg, Karen (5% Non-EPA) Dr. Morris, James T. (5% Non-EPA) Dr. Roman, Charles T. (5% Non-EPA) NHEERL

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 7		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S13MM0115	<p>Trophic Status, Ecological Condition and Cyanobacteria Risk of New England Lakes and Ponds based on Aircraft Remote Sensing</p> <p>Journal of Applied Remote Sensing, 6(1): 063577-1- 063577-22</p>	<p>Dr. Keith, Darryl J. (48%) Dr. Milstead, William B. (20%) Mr. Szykman, James J. (10%) Dr. Walker, Henry A. (5%) Mr. Snook, Hilary (5%) Mr. Wusk, Michael S. (4% Non-EPA) Mr. Howell III, Charles T. (4% Non-EPA) Mr. Kagey, Leslie O. (2% Non-EPA) Mr. Mellanson, Cecil D. (2% Non-EPA)</p> <p>NHEERL</p>
S13MM0116	<p>The New Bedford Harbor Superfund Site Long-Term Monitoring Program (1993-2009)</p> <p>Environ. Monit. Assess., 184:7531–7550</p>	<p>Dr. Nelson, William G. (50%) Dr. Bergen, Barbara J. (50%)</p> <p>NHEERL</p>
S13RA0118	<p>A Review of the Elements of Human Well-Being with an Emphasis on the Contribution of Ecosystem Services</p> <p>Ambio, 41:327–340</p>	<p>Mr. Summers, J. Kevin (80%) Ms. Smith, Lisa M. (10%) Dr. Linthurst, Rick A. (5%) Mr. Case, Jason (5% Non-EPA)</p> <p>NHEERL</p>