

1 **9/2/16 Draft**  
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3 The Honorable Gina McCarthy  
4 Administrator  
5 U.S. Environmental Protection Agency  
6 1200 Pennsylvania Avenue, N.W.  
7 Washington, D.C. 20460  
8

9 Subject: SAB Recommendations for EPA's FY 2016 Scientific and Technological  
10 Achievement Awards  
11

12 Dear Administrator McCarthy:  
13

14 The EPA Science Advisory Board (SAB) is pleased to transmit its recommendations for the EPA's FY  
15 2016 Scientific and Technological Achievement Awards (STAA). The STAA program was established  
16 by the agency in 1980 to recognize EPA employees who have made outstanding contributions to the  
17 advancement of science and technology through their publication of peer-reviewed articles or books.  
18 Additional objectives of the STAA program include making the general public more aware of the  
19 quality and depth of EPA science, and improving the credibility of the science underpinning agency  
20 decisions. The SAB has been asked by EPA's Office of Research and Development to review EPA's  
21 nominated scientific publications and make recommendations for awards. The SAB is pleased to  
22 continue to play this important role in the STAA program.  
23

24 This year, the SAB reviewed a total of 75 nominations comprised of 130 publications within 14 science  
25 and technology categories. The SAB excluded two nominations from consideration since they did not  
26 meet the eligibility criteria. The SAB recommends: no nominations for Level I, the highest award; 8  
27 nominations for Level II; 13 nominations for Level III; and 32 nominations for Honorable Mention. The  
28 SAB's recommendations are provided in the enclosed report.  
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30 Overall, the SAB commends the agency for its publications and finds that the 2016 STAA nominations  
31 were generally of very good quality. Although none of this year's nominations met the strict criteria for  
32 the highest level award, which speaks to the high scientific and technological standard of the STAA  
33 program, the SAB assures the EPA that its scientists are doing high quality work which has maximal  
34 public and environmental health benefits.  
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36 The SAB appreciates the agency's implementation of most of the SAB's recommendations from  
37 previous years for improving the nomination procedures and administration of the STAA program. In a  
38 separate report, the SAB will provide recommendations to further strengthen the STAA program and  
39 facilitate the SAB review of future STAA nominations.  
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41 The agency is to be congratulated for again successfully administering its annual STAA program and the  
42 SAB applauds the EPA's public recognition of the scientific work of EPA scientists and engineers that is  
43 published in the peer-reviewed literature. Thank you for providing the SAB with the opportunity to  
44 assist the agency with this important program. The SAB looks forward to reviewing the FY 2017 STAA  
45 nominations.  
46

47 Sincerely,  
48

49 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

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). This year, the EPA Science Advisory Board (SAB) has been asked, once again, to review the EPA’s nominated scientific publications and make recommendations for STAA awards in consideration of the EPA’s criteria. The EPA announced the call for nominations for the 2016 STAA program to senior managers and employees in March 2016. ORD screened the nominations for conformance with EPA’s *STAA Nomination Procedures and Guidelines*. The Guidelines describe the award levels, eligibility criteria, and the award criteria.

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.

## 2. SAB REVIEW PROCEDURE

The SAB Staff Office formed a new SAB 2016-2018 STAA Committee in 2016 to review EPA’s STAA nominations. The Committee members were invited to serve for a three-year term. The SAB STAA 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).

All EPA nominations and nomination evaluation criteria were provided to the SAB STAA Committee in advance of the review meeting. The SAB STAA Committee 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 in Section 1.

In May 2016, ORD submitted to the SAB Staff Office 77 nominations for 2016 STAA awards in 14 science and technology categories. The SAB STAA Committee met on August 15-16, 2016 in Washington, DC. During an open session of the meeting on August 15, the Committee received a briefing from the EPA on proposed changes to the STAA nomination and review process. During the closed sessions of the meeting on August 15-16, the Committee discussed award recommendations for the EPA’s 2016 STAA program. The Committee’s discussion on award recommendations was closed to the public because such 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 nominations (see Table 1), and reached consensus on the recommendations for awards. To avoid an appearance of bias or a loss of impartiality, some members were asked to recuse themselves from the Committee deliberations on selected nominations. The Committee did not make recommendations for two submitted nominations because they did not meet the eligibility requirements (one nomination did not include the entire nomination package and instead another package was duplicated in error; another nomination included three publications for consideration of award, one of which was published in 2012 and is before the required minimum date for nominated publications).

On [add date], the chartered SAB held a closed teleconference to consider this report of the 2016 SAB STAA Committee. The SAB approved (approved with modifications?) the report for transmittal to the EPA Administrator.

On August 15-16, 2016, the SAB STAA Committee also discussed recommendations to further strengthen the STAA program and facilitate the SAB review of future STAA nominations. The SAB STAA Committee will provide these administrative recommendations in a separate report for consideration and approval by the chartered SAB at an open public meeting.

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**Table 1. 2016 STAA Nominations by Topic Category**

<b>Topic</b>	<b>Number of Nominations Submitted to SAB</b>
Control Systems and Technology	1
Ecological Research	12
Energy and the Environment	1
Environmental Policy and Decision-making Studies	9
Health Effects Research and Human Health Risk Assessment	15
Homeland Security	1
Industry and the Environment	4
Integrated Risk Assessment	3
Monitoring and Measurement Methods	9
Other Environmental Research	6
Review Articles	2
Risk Management and Ecosystem Restoration	4
Sustainability and Innovation	1
Transport and Fate	9
<b>TOTAL</b>	<b>77<sup>ab</sup></b>

<sup>a</sup>The SAB excluded one nomination because the nomination was a duplication of another submitted nomination.

<sup>b</sup>One nomination included three publications for consideration of award, with one of these publications occurring in 2012. The SAB excluded this nomination because it did not meet the eligibility requirements (i.e., 2016 STAA nomination packages must include nominated publications that were published on or after January 1, 2013).

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### 3. AWARD RECOMMENDATIONS

Table 2 summarizes the awards by year for the last 10 years, including the current recommendations for 2016. For 2016, the SAB STAA Committee recommended: no nominations for Level I, the highest award; 8 nominations for Level II; 13 nominations for Level III; and 32 nominations for Honorable Mention. Appendix A lists the EPA nominations recommended for each of the award levels, I through III, and those recommended for Honorable Mention. The final rankings were agreed to by consensus at the SAB STAA Committee meeting on August 15-16, 2016 and discussed and approved by the chartered SAB on **[add date]**. Table 3 summarizes the distribution of 2016 award recommendations among categories for all nominations reviewed by the Committee.

**Table 2. Comparison of Award Recommendations Over Time**

<b>Award Level</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
<b>Nominations Reviewed</b>	90	140	130	109	121	130	104	117	72	116	75
<b>Level I</b>	5 (6%)	5 (4%)	5 (4%)	3 (3%)	5 (4%)	3 (2%)	4 (4%)	0	1 (1%)	1 (1%)	0
<b>Level II</b>	11 (12%)	13 (9%)	16 (12%)	22 (20%)	14 (12%)	13 (10%)	10 (10%)	10 (9%)	2 (3%)	3 (3%)	8 (11%)
<b>Level III</b>	29 (32%)	37 (26%)	30 (21%)	31 (28%)	42 (35%)	35 (27%)	29 (28%)	27 (23%)	20 (28%)	38 (33%)	13 (17%)
<b>Honorable Mention</b>	26 (29%)	45 (32%)	43 (33%)	25 (23%)	33 (27%)	44 (34%)	36 (35%)	45 (38%)	29 (40%)	42 (36%)	32 (43%)
<b>Not Recommended</b>	19 (21%)	40 (29%)	36 (28%)	28 (26%)	27 (22%)	35 (27%)	25 (24%)	35 (30%)	20 (28%)	32 (27%)	22 (29%)

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**Table 3. Summary of Award Recommendations by Category for FY2016**

Nomination Categories	Total Nominations Reviewed	Award Levels				Honorable Mention
		I	II	III	Total	
Control Systems and Technology	1	0	0	1	1	0
Ecological Research	11	0	1	2	3	6
Energy and the Environment	1	0	0	0	0	1
Environmental Policy and Decision-making Studies	9	0	1	1	2	5
Health Effects Research and Human Health Risk Assessment	15	0	2	3	5	7
Homeland Security	1	0	0	0	0	0
Industry and the Environment	4	0	1	1	2	1
Integrated Risk Assessment	3	0	0	2	2	0
Monitoring and Measurement Methods	9	0	1	2	3	5
Other Environmental Research	6	0	1	0	1	1
Review Articles	2	0	0	0	0	0
Risk Management and Ecosystem Restoration	4	0	0	1	1	2
Sustainability and Innovation	1	0	0	0	0	0
Transport and Fate	8	0	1	0	1	4
<b>TOTALS:</b>	<b>75</b>	<b>0</b>	<b>8</b>	<b>13</b>	<b>21</b>	<b>32</b>

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## APPENDIX A - NOMINATIONS RECOMMENDED FOR STAA AWARDS

Nominations Recommended for a Level I Award -- None		
Nominations Recommended for a Level II Award -- Total of 8		
Nom.	Titles and Citations of Submitted Papers	Authors and Nominating Organization
80	Diesel Exhaust Modulates Ozone-induced Lung Function Decrements in Healthy Human Volunteers. Published in Particle & Fibre Toxicology.	Madden, Michael Stevens, Tina Case, Martin Schmitt, Michael Diaz-Sanchez, David Bassett, Maryanne Montilla, Tracey Bertsen, John Devlin, Robert  <b>NHEERL</b>
103	(1) Abiotic Hydrolysis of Fluorotelomer Polymers as a Source of Perfluorocarboxylates at the Global Scale. Published in Environmental Science & Technology.  (2) Identification of Unsaturated and 2H Polyfluorocarboxylate Homologous Series, and their Detection in Environmental Samples and as Polymer Degradation Products. Published in Environmental Science & Technology.	Weber, Eric Washington, John Jenkins, Thomas  <b>NERL</b>
145	(1) Part 1: Laboratory Culture of <i>Centroptilum triangulifer</i> (Ephemeroptera:Baetidae) using a Defined Diet of Three Diatoms. Published in Chemosphere.  (2) Part 2: Sensitivity Comparisons of the Mayfly <i>Centroptilum triangulifer</i> to <i>Ceriodaphnia dubia</i> and <i>Daphnia magna</i> using Standard Reference Toxicants: NaCl, KCl and CuSO <sub>4</sub> . Published in Chemosphere.  (3) Elevated Major Ion Concentrations Inhibit Larval Mayfly Growth and Development. Published in Environmental Science & Technology.	Weaver, Paul Struewing, Katherine Nietch, Christopher Lazorchak, James Johnson, Brent Funk, David DeCelles, Susanna Buchwalter, David  <b>NERL</b>

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<b>Nominations Recommended for a Level II Award -- Total of 8</b>		
<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>153</b>	<p>(1) Effects-Based Chemical Category Approach for Prioritization of Low Affinity Estrogenic Chemicals. Published in SAR and QSAR in Environmental Research.</p> <p>(2) A Rule-Based Expert System for Chemical Prioritization Using Effects-Based Chemical Categories. Published in SAR and QSAR in Environmental Research.</p>	<p>Tapper, Mark                      Sheedy, Barbara                      Schmieder, Patricia                      Kolanczyk, Richard                      Hornung, Michael                      Henry, Tala                      Hartig, Phillip                      Denny, Jeffrey                      Aladjov, Hristo</p> <p><b>NHEERL</b></p>
<b>190</b>	<p>(1) Independent Data Validation of an In Vitro Method for the Prediction of the Relative Bioavailability of Arsenic in Contaminated Soils. Published in Environmental Science and Technology.</p> <p>(2) Mouse Assay for Determination of Arsenic Bioavailability in Contaminated Soils. Published in Journal of Toxicology and Environmental Health, Part A.</p>	<p>Thomas, David                      Thayer, William                      Smith, Euan                      Scheckel, Kirk                      Obenour, Dan                      Nelson, Clay                      Miller, Bradley                      Klotzbach, Julie                      Juhasz, Albert                      Hughes, Michael                      Diamond, Gary                      Casteel, Stan                      Bradham, Karen</p> <p><b>NRMRL</b></p>
<b>206</b>	<p>(1) Analysis of Hydraulic Fracturing Fluid Data from the FracFocus Chemical Disclosure Registry 1.0. U.S. EPA Report EPA/601/R-14/003</p> <p>(2) Review of Well Operator Files for Hydraulically Fractured Oil and Gas Production Wells: Well Design and Construction. U.S. EPA Report EPA/601/R-14/001.</p>	<p>Wiser, Nathan                      Tucillo, Mary Ellen                      Torres, Jose                      Tinsley, Chuck                      Singer, Alison                      Sharkey, Susan                      Oberley, Gregory                      Meza-Cuadra, Claudia                      Marker, David                      Koplos, Jonathan                      Joffe, Andrea                      Hillenbrand, Charles                      Dean, Jill                      Cole, Guy                      Burden, Susan                      Boyd, Glen</p> <p><b>OSP</b></p>

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<b>Nominations Recommended for a Level II Award -- Total of 8</b>		
<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>226</b>	Life Cycle Assessment of Domestic and Agricultural Rainwater Harvesting Systems. Published in Environmental Science and Technology.	Johnston, John Ingwersen, Wesley Hawkins, Troy Ghimire, Santosh  <b>NERL</b>
<b>240</b>	Do Environmental Regulations Disproportionately Affect Small Business? Evidence from the Pollution Abatement Costs and Expenditures Survey. Published in Journal of Environmental Economics and Management.	Shadbegian, Ronald Pasurka, Carl Becker, Randy  <b>NCEE</b>

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<b>Nominations Recommended for a Level III Award (No Monetary Award) -- Total of 13</b>		
<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>105</b>	Novel Use of Time Domain Reflectometry in Infiltration-Based Low Impact Development Practices. Published in Journal of Irrigation and Drainage Engineering.	Stander, Emilie Rowe, Amy O'Connor, Thomas Borst, Michael  <b>NERL</b>
<b>142</b>	(1) Widespread Molecular Detection of Legionella pneumophila Serogroup 1 in Cold Water Taps across the United States. Published in Environmental Science and Technology  (2) Increased Frequency of Nontuberculous Mycobacteria Detection at Potable Water Taps within the United States. Published in Environmental Science and Technology.	Vesper, Stephen Pfaller, Stacy Mistry, Jatin Kostich, Mitch King, Dawn O'Connell, Katharine Donohue, Maura Donohue, Joyce Covert, Terry Byran, Jules  <b>NERL</b>
<b>146</b>	Hidden Markov Models for Estimating Animal Mortality from Anthropogenic Hazards. Published in Ecological Applications.	Etterson, Matthew  <b>NHEERL</b>
<b>156</b>	(1) A Validation Study of a Rapid Field-Based Rating System for Discriminating Among Flow Permanence Classes of Headwater Streams in South Carolina. Published in Environmental Management.  (2) Comparing the Extent and Permanence of Headwater Streams from Two Field Surveys to Values from Hydrographic Databases and Maps. Published in Journal of the American Water Resources Association.  (3) Validation of Rapid Assessment Methods to Determine Streamflow Duration Classes in the Pacific Northwest, USA. Published in Environmental Management.	Wigington, Parker Wenerick, William Reif, Molly Nadeau, Tracie-Lynn Leibowitz, Scott Kostich, Mitch Hagenbuch, Elisabeth Fritz, Ken Ebersole, Joseph D'Amico, Ellen Coulombe, Robert Comeleo, Randy Blocksom, Karen  <b>NERL</b>

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<b>Nominations Recommended for a Level III Award (No Monetary Award) -- Total of 13</b>		
<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>162</b>	<p>(1) Air Pollution Exposure Model for Individuals (EMI) in Health Studies: Evaluation for Ambient PM<sub>2.5</sub> in Central North Carolina. Published in Environmental Science and Technology.</p> <p>(2) GPS-based Microenvironment Tracker (MicroTrac) Model to Estimate Time-Location of Individuals for Air Pollution Exposure Assessments: Model Evaluation in Central North Carolina. Published in Journal of Exposure Science and Environmental Epidemiology.</p> <p>(3) Modeling Spatial and Temporal Variability of Residential Air Exchange Rates for the Near-Road Exposures and Effects of Urban Air Pollutants Study (NEXUS). Published in International Journal of Environmental Research and Public Health.</p>	<p>Williams, Ronald                      Vette, Alan                      Tan, Cecilia                      Schultz, Bradley                      Schneider, Alexandra                      Richmond-Bryant, Jennifer                      Meng, Qing Yu                      Long, Thomas                      Langstaff, John                      Isaacs, Kristin                      Godwin, Christopher                      Geller, Andrew                      Devlin, Robert                      Crooks, James                      Croghan, Carry                      Cao, Ye                      Burke, Janet                      Buckley, Timothy                      Breen, Miyuki                      Breen, Michael                      Batterman, Stuart</p> <p><b>NERL</b></p>
<b>183</b>	<p>(1) Concentrations of Prioritized Pharmaceuticals in Effluents from 50 Large Wastewater Treatment Plants in the US and Implications for Risk Estimation. Published in Environmental Pollution.</p> <p>(2) Evaluating the Extent of Pharmaceuticals in Surface Waters of the United States using a National-Scale Rivers and Streams Assessment Survey. Published in Environmental Toxicology and Chemistry.</p>	<p>Olsen, Anthony                      Lazorchak, James                      Kostich, Mitchell                      Kincaid, Thomas                      Batt, Angela</p> <p><b>NERL</b></p>
<b>186</b>	<p>Developing a Social Cost of Carbon for US Regulatory Analysis: A Methodology and Interpretation. Published in Review of Environmental Economics and Policy.</p>	<p>Wolverton, Ann                      Kopits, Elizabeth                      Greenstone, Michael</p> <p><b>NCEE</b></p>
<b>208</b>	<p>(1) What's Causing Toxicity in Sediments? Results of 20 Years of Toxicity Identification and evaluations (TIES). Published in Environmental Toxicology and Chemistry.</p> <p>(2) Effects-Directed Analysis (EDA) and Toxicity Identification Evaluation (TIE): Complementary but Different Approaches for Diagnosing Causes of Environmental Toxicity. Published in Environmental Toxicology and Chemistry.</p>	<p>Lamoree, Marja                      Ho, Kay                      Burgess, Robert                      Brack, Werner</p> <p><b>NHEERL</b></p>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>216</b>	<p>(1) Release of Silver from Nanotechnology-Based Consumer Products. Published in Environmental Science and Technology.</p> <p>(2) Characterization of Silver Nanoparticles in Selected Consumer Products and its Relevance for Predicting Children’s Potential Exposures. Published in International Journal of Hygiene and Environmental Health.</p>	<p>Willis, Robert                      Vance (Quatros), Marina                      Tulve, Nicolle                      Thomas, Treye                      Stefaniak, Aleksandr                      Schwegler-Berry, Diane                      Rogers, Kim                      Pierson, Raymond                      Mwilu, Samuel                      Marr, Linsey                      Lebouf, Ryan</p> <p><b>NERL</b></p>
<b>219</b>	<p>(1) Comprehensive Assessment of a Chlorinated Drinking Water Concentrate in a Rat Multigenerational Reproductive Toxicity Study. Published in Environmental Science and Technology.</p> <p>(2) Reproductive Toxicity of a Mixture of Regulated Drinking-Water Disinfection By-Products in a Multigenerational Rat Bioassay. Published in Environmental Health Perspectives.</p>	<p>Thillainadarajah, Inthirany                      Teuschler, Linda                      Suarez, Juan                      Strader, Lillian                      Speth, Thomas                      Simmons, Jane Ellen                      Richardson, Susan                      Rice, Glenn                      Pressman, Jonathan                      Narotsky, Michael                      Murr, Ashley                      Moser, Virginia                      Miltner, Richard                      McDonald, Anthony                      Luebke, Robert                      Klinefelter, Gary                      Hunter, E. Sidney                      Goldman, Jerome                      George, Michael                      DeAngelo, Anthony                      Best, Deborah</p> <p><b>NHEERL</b></p>
<b>232</b>	<p>(1) Manganese, Iron, and Sulfur Cycling in Louisiana Continental Shelf Sediments. Published in Continental Shelf Research.</p> <p>(2) Changes in Northern Gulf of Mexico Sediment Bacterial and Archaeal Communities Exposed to Hypoxia. Published in Geobiology.</p> <p>(3) Microphytobenthos Production Potential and Contribution to Bottom Layer Oxygen Dynamics on the Inner Louisiana Continental Shelf. Published in Bulletin of Marine Science.</p>	<p>Yates, Diane                      Vishnivetskaya, Tatiana                      Palumbo, Anthony                      Murrell, Michael                      Mosher, Jennifer                      Lehrter, John                      Jarvis, Brandon                      Fry, Brian                      Devereux, Richard                      Brown, Steven                      Beddick, David</p> <p><b>NHEERL</b></p>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>234</b>	Fifteen-year Assessment of a Permeable Reactive Barrier for Treatment of Chromate and Trichloroethylene in Groundwater. Published in Science of the Total Environment.	Woods, Leilani Wilkin, Richard Ross, Randall Puls, Robert Lee, Tony Acree, Steven  <b>NRMRL</b>
<b>242</b>	Guidance for Product Category Rule Development. Book published by the Product Category Rule Guidance Development Initiative. ISBN: 978-0-9897737-0-6.	Subramanian, Vairavan Leith, Angie Ingwersen, Wesley  <b>NRMRL</b>

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<b>Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 32</b>		
<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>81</b>	Innovative Research Program on the Renewal of Aging Water Infrastructure Systems. Published by Journal of Water Supply: Research and Technology – AQUA.	Sterling, Raymond Selvakumar, Ariamalar Matthews, John Condit, Wendy  <b>NRMRL</b>
<b>83</b>	(1) Associations Between Prenatal Exposure to Air Pollution, Small for Gestational Age, and Term Low Birthweight in a State-wide Birth Cohort. Published by Environmental Research.  (2) Influence of Urbanicity and County Characteristics on the Association between Ozone and Asthma Emergency Department Visits in North Carolina. Published by Environmental Health Perspectives.  (3) Associations of Ozone and PM2.5 Concentrations with Parkinson's Disease Among Participants in the Agricultural Health Study. Published by Journal of Occupational and Environmental Medicine.	Ward, Mary Waller, Anna Vinikoor-Imler, Lisa Tanner, Caroline Sandler, Dale Sacks, Jason Richardson, David Rappold, Ana Patel, Molini Meyer, Robert Messer, Lynne Luben, Thomas Kirrane, Ellen Kamel, Freya Hoppin, Jane Davis, Allen Chen, Honglei Bowman, Christal Blair, Aaron  <b>NCEA</b>
<b>85</b>	A National Approach for Mapping and Quantifying Habitat-based Biodiversity Metrics across Multiple Spatial Scales. Published by Ecological Indicators/Special Issue Publication.	Samson, Elizabeth Neale, Anne Leimer, Allison Kopp, Darin Kepner, William Guy, Rachel Gergely, Kevin East, Forrest Bradford, David Boykin, Kenneth  <b>NERL</b>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>101</b>	<p>(1) Predicting Submerged Aquatic Vegetation Cover and Occurrence in a Lake Superior Estuary. Published by Journal of Great Lakes Research.</p> <p>(2) Sediment Nitrification and Denitrification in a Lake Superior Estuary. Published by Journal of Great Lakes Research.</p> <p>(3) Water Quality in the St. Louis River Area of Concern, Lake Superior: Historical and Current Conditions and Delisting Implications. Published by Journal of Great Lakes Research.</p>	<p>Starry, Matthew                      Siefert-Monson, Lindey                      Reschke, Carol                      Pearson, Mark                      Lehto, LaRae                      Jicha, Terri                      Hoffman, Joel                      Hill, Brian                      Elonen, Colleen                      Bolgrien, David                      Bellingier, Brent                      Angradi, Ted                      Anderson, Leroy</p> <p><b>NHEERL</b></p>
<b>102</b>	<p>Below the Disappearing Marshes of an Urban Estuary: Historic Nitrogen Trends and Soil Structure. Published by Ecological Applications.</p>	<p>Wigand, Cathleen                      Watson, Elizabeth                      Stolt, Mark                      Roman, Charles                      Rafferty, Patricia                      Moran, S. Bradley                      Lynch, James                      Johnson, Roxanne                      Hanson, Alana                      Davey, Earl                      Cahoon, Donald</p> <p><b>NHEERL</b></p>
<b>111</b>	<p>Metabolite Profiling of Fish Skin Mucus: A Novel Approach for Minimally-Invasive Environmental Monitoring and Surveillance. Published by Environmental Science and Technology.</p>	<p>Villeneuve, Dan                      Skelton, David                      Schroeder, Anthony                      Jensen, Kathleen                      Ekman, Drew                      Davis, John                      Collette, Timothy                      Cavallin, Jenna                      Ankley, Gerald</p> <p><b>NERL</b></p>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>123</b>	<p>(1) Concordance of "Transcriptional and Apical Benchmark Dose Levels for Conazole-Induced Liver Effects in Mice. Published by Toxicological Sciences.</p> <p>(2) Dose-response modeling of early molecular and cellular key events in the CAR-mediated hepatocarcinogenesis pathway. Published by Toxicological Sciences.</p> <p>(3) Developing toxicogenomics as a research tool by applying benchmark dose-response modelling to inform chemical mode of action and tumorigenic potency. Published by the International Journal of Biotechnology.</p>	<p>Sura, Radhakrishna                      Nesnow, Stephen                      Hester, Susan                      Golladpudi, Bhaskar                      Geter, David                      Eastmond, David                      Bhat, Virunya</p> <p><b>NHEERL</b></p>
<b>125</b>	<p>(1) In Vitro, Ex Vivo, and In Vivo Determination of Thyroid Hormone Modulating Activity of Benzothiazoles. Published by Toxicological Sciences.</p> <p>(2) Inhibition of the Thyroid Hormone Pathway in <i>Xenopus laevis</i> by 2-Mercaptobenzothiazole. Published by Aquatic Toxicology.</p>	<p>Tietge, Joseph                      Nevalainen, Erica                      Michael, Hornung                      Macherla, Chitralekha                      Livingston-Anderson, Annelie                      Kosian, Patricia                      Korte, Joseph                      Haselman, Jonathan                      Degitz, Sigmund                      Challis, Katie                      Butterworth, Brian                      Burgess, Emily                      Blackshear, Pamela</p> <p><b>NHEERL</b></p>
<b>144</b>	<p>The Matthew Effect and Widely Prescribed Pharmaceuticals Lacking Environmental Monitoring: Case Study of an Exposure-assessment Vulnerability. Published by Science of the Total Environment.</p>	<p>Daughton, Christian</p> <p><b>NERL</b></p>
<b>147</b>	<p>(1) Estimating Lifetime Risk from Spot Biomarker Data and Intra-class Correlation Coefficients (ICC). Published by Journal of Toxicology and Environmental Health.</p> <p>(2) Estimating Common Parameters of Log-normally Distributed Environmental and Biomonitoring Data. Published by Journal of Toxicology and Environmental Health.</p>	<p>Strynar, Mark                      Stiegel, Matthew                      Sobus, Jon                      Pleil, Joachim                      Oliver, Karen                      Olenick, Cassandra                      Madden, Michael                      Hu, Di                      Funk, William                      Clark, Mary</p> <p><b>NERL</b></p>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>151</b>	Observed and Modeled Effects of pH on Bioconcentration of Diphenhydramine, a Weakly Basic Pharmaceutical, in Fathead Minnows. Published by Environmental Toxicology and Chemistry.	Nichols, John Hoffman, Alex Erickson, Russell Du, Bowen Connors, Kristin Chambliss, Kevin Brooks, Bryan Berninger, Jason  <b>NHEERL</b>
<b>154</b>	Modulation of Aromatase Activity as a Mode of Action for Endocrine Disrupting Chemicals in a Marine Fish. Published by Aquatic Toxicology.	Zarogian, Gerald Mills, Lesley Laws, Susan Guthjahr-Gobell, Ruth Borsay Horowitz, Doranne  <b>NHEERL</b>
<b>181</b>	A Systematic Proteomic Approach to Characterize the Impacts of Chemical Interactions on Protein and Cytotoxicity Responses to Metal Mixture Exposures. Published by the American Chemical Society.	Xi, Mingyu Woodard, Jonne Winnik, Witold Wallace, Kathleen Teichman, Kevin Swank, Adam Spasova, Maria Roy, Anindya Ross, Jeffrey Lefew, William Leavitt, Sharon Haykal-Coates, Najwa Ge, Yue Farraj, Aimen Chen, Chao Bruno, Maribel Andrews, Debora  <b>NHEERL</b>
<b>182</b>	(1) Silicon Impurity Release and Surface Transformation of TiO <sub>2</sub> Anatase and Rutile Nanoparticles in Water Environments. Published by Environmental Pollution.  (2) Release of Phosphorous Impurity from TiO <sub>2</sub> Anatase and Rutile Nanoparticles in Aquatic Environments and Its Implications. Published by Water Research.  (3) Effects of Dominant Material Properties on the Stability and Transport of TiO <sub>2</sub> Nanoparticles and Carbon Nanotubes in Aquatic Environment: From Synthesis to Fate. Published by Environmental Science.	Su, Chunming Liu, Xuyang Keller, Arturo Erwin, Justin Chen, Gexin Adam, Nadia  <b>NRMRL</b>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>195</b>	Historical Gaseous and Primary Aerosol Emissions in the United States from 1990 to 2010. Published by Atmospheric Chemistry and Physics.	Xing, Jia Wei, Chao Pouliot, George Pleim, Jonathan Mathur, Rohit Hogrefe, Christian Gan, C. Meei  <b>NERL</b>
<b>196</b>	(1) Ozone induces glucose intolerance and systemic metabolic effects in young and aged Brown Norway rats. Published by Toxicology and Applied Pharmacology.  (2) Episodic ozone exposure in adult and senescent Brown Norway rats: acute and delayed effect on heart rate, core temperature and motor activity. Published by Inhalation Toxicology.	Schladweiler, Mette Phillips, Pamela Miller, Desinia McPhail, Robert Ledbetter, Allen Kodavanti, Urmila Johnstone, Andrew Jarema, Kimberly Gordon, Christopher Doerfler, Donald Cascio, Wayne Bass, Virginia Aydin, Cenk Andrews, Debora  <b>NHEERL</b>
<b>198</b>	(1) Executive Summary: Variation in Susceptibility to Ozone Induced Health Effects in Rodent Models of Cardiometabolic Disease. Published by Inhalation Toxicology.  (2) Whole Body Plethysmography Reveals Differential Ventilatory Responses to Ozone in Rat Models of Cardiovascular Disease. Published by Inhalation Toxicology.  (3) Pulmonary Transcriptional Response to Ozone in Healthy and Cardiovascular Compromised Rat Models. Published by Inhalation Toxicology.	William, Ward Schladweiler, Mette Ledbetter, Allen Kodavanti, Urmila Dye, Janice Costa, Daniel  <b>NHEERL</b>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>200</b>	<p>(1) The Influence of Declining Air Lead Levels on Blood Lead-Air Lead Slope Factors in Children. Published by Environmental Health Perspectives.</p> <p>(2) A Multi-level Model of Blood Lead as a Function of Air Lead. Published by Science of the Total Environment.</p> <p>(3) Effect Measure Modification of Blood Lead-Air Lead Slope Factors. Published by Journal of Exposure Science and Environmental Epidemiology.</p>	<p>Vinikoor-Imler, Lisa                      Tuttle, Lauren                      Svendsgaard, David                      Ross, Mary                      Richmond-Bryant, Jennifer                      Rice, Joann                      Meng, Qingyu                      Lu, Shou-En                      Kotchmar, Dennis                      Kirrane, Ellen                      Hubbard, Heidi                      Hines, Erin                      Davis, Allen                      Cohen, Jonathan                      Brown, James</p> <p><b>NCEA</b></p>
<b>201</b>	<p>(1) Optimization of Adenovirus 40 and 41 Recovery from Tap Water Using Small Disk Filters. Published by Journal of Virological Methods.</p> <p>(2) A Small Volume Procedure for Viral Concentration from Water. Published by Journal of Visualized Experiments.</p>	<p>McMinn, Brian                      Korajkic, Asja</p> <p><b>NERL</b></p>
<b>202</b>	<p>Submersible Fluorometers Exposed to Chemically Dispersed Crude Oil: Wave Tank Simulations for Improved Oil Spill Monitoring. Published by Environmental Science and Technology.</p>	<p>Wood, Michelle                      Walsh, Ian                      Ryan, Scott                      Robinson, Brian                      Pegau, Scott                      Miles, Scott                      Lewis, Marlon                      Lee, Kenneth                      Lacoste, Jordanna                      Koch, Corey                      King, Thomas                      Kelble, Christopher                      Farr, James                      Conmy, Robyn                      Coble, Paula                      Abercrombie, Mary</p> <p><b>NRMRL</b></p>

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<b>203</b>	(1) Classifying Lakes to Improve Precision of Nutrient-Chlorophyll Relationships. Published by Freshwater Science.  (2) Classifying Lakes to Quantify Relationships between Epilimnetic Chlorophyll a and Hypoxia. Published by Environmental Management.  (3) Deriving Nutrient Targets to Prevent Excessive Cyanobacterial Densities in U.S. Lakes and Reservoirs. Published by Freshwater Biology.	Yuan, Lester Pollard, Amina  <b>OW</b>
<b>204</b>	Transport and Retention of Colloids in Porous Media: Does Shape Really Matter? Published by Environmental Science & Technology.	Su, Chunming Seymour, Megan Li, Yusong Chen, Gexin  <b>NRMRL</b>
<b>218</b>	(1) Continuous Monitoring Reveals Multiple Controls on Ecosystem Metabolism in a Suburban Stream. Published by Freshwater Biology.  (2) Estimating Autotrophic Respiration in Streams Using Daily Metabolism Data. Published by Freshwater Science.	Shuster, William Hall, Jr., Robert Beaulieu, Jake Balz, David Arango, Clay  <b>NRMRL</b>

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<b>225</b>	<p>(1) Concentrations of Environmental Phenols and Parabens in Milk, Urine and Serum of Lactating North Carolina Women. Published by Reproductive Toxicology.</p> <p>(2) Improving the Risk Assessment of Lipophilic Persistent Environmental Chemicals in Breast Milk. Published by Critical Reviews in Toxicology.</p> <p>(3) Environmental Chemicals and Mammary Gland Development. Book chapter published in Encyclopedia of Toxicology, published by Elsevier, Inc.</p>	<p>Ye, Sherry                      Yang, Raymond                      Welsh, Clem                      Von Ehrenstein, Ondine                      Verner, Marc                      Tornero-Velez, Rogelio                      Tan, Cecilia                      Swartout, Jeffrey                      Simmons, Jane                      Savig, Sharon                      Rogan, Walter                      Rayner, Jennifer                      Powers, Christina                      Poulson, Michael                      Phillips, Linda                      Mendola, Pauline                      McLanahan, Eva                      Marchitti, Satori                      Luukinen, Bryan                      Longnecker, Matthew                      Lehmann, Geniece                      Lakind, Judy                      Hines, Erin                      Hennig, Cara                      Haddad, Sami                      Francis, Bettina                      Foster, Warren                      Foster, Paul                      Fenton, Suzanne                      Farrer, Doug                      El-Masri, Hisham                      Davis, Matthew                      Campbell, John                      Calafat, Antonia                      Barnett, John                      Assimon, Sue</p> <p><b>NCEA</b></p>
<b>227</b>	<p>Modeling NAPL dissolution from pendular rings in idealized porous media. Published by Water Resources Research.</p>	<p>Huang, Junqi                      Goltz, Mark                      Demond, Avery                      Christ, John</p> <p><b>NRMRL</b></p>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>229</b>	<p>(1) Estimating Surface Area of Sponges and Gorgonians as Indicators of Habitat Availability on Caribbean Coral Reefs. Published by Hydrobiologia.</p> <p>(2) Contrasting Responses of Coral Reef Fauna and Foraminiferal Assemblages to Human Influence in La Parguera, Puerto Rico. Published by Marine Environmental Research.</p> <p>(3) Regional Status Assessment of Stony Corals in the US Virgin Islands. Published by Environmental Monitoring and Assessment.</p>	<p>Santavy, Deborah                      Fisher, William                      Oliver, Leah                      Courtney, Lee                      Quarles, Robert                      Campbell, Jed                      Dittmar, John                      Fore, Leska                      Hallock-Muller, Pamela                      Harris, Peggy                      LoBue, Charles                      Hemmer, Becky                      Hutchins, Aaron                      Jordan, Stephen                      Parsons, Mel                      Rodriguez, Daniel                      Wilkinson (Vickery), Sherry</p> <p><b>NHEERL</b></p>
<b>235</b>	<p>Assessment of Status of White Sucker (<i>Catostomus commersoni</i>) Populations Exposed to Bleached Kraft Pulp Mill Effluent. Published by Environmental Toxicology and Chemistry.</p> <p>Linking Mechanistic Toxicology to Population Models in Forecasting Recovery from Chemical Stress: A Case Study from Jackfish Bay, Ontario, Canada. Published by Environmental Toxicology and Chemistry.</p>	<p>Xia, Xiangsheng                      Tietge, Joseph                      Munkittrick, Kelly                      Miller, David                      McMaster, Mark                      Griesmer, David                      Ankley, Gerald</p> <p><b>NHEERL</b></p>
<b>236</b>	<p>Incorporating "Catastrophic" Climate Change into Policy Analysis. Published by Climate Policy.</p>	<p>Marten, Alex                      Kopits, Elizabeth                      Ann, Wolverton</p> <p><b>NCEE</b></p>
<b>237</b>	<p>(1) A Rapid Assessment Model for Understanding the Social Cost of Carbon. Published by Climate Change Economics.</p> <p>(2) Further Comment on "A Rapid Assessment Model for Understanding the Social Cost of Carbon." Published by Climate Change Economics.</p>	<p>Wolverton, Ann                      Newbold, Stephen                      Moore, Chris                      Kopits, Elizabeth                      Griffiths, Charles</p> <p><b>NCEE</b></p>
<b>238</b>	<p>Temporal Resolution and DICE. Published by Nature Climate Change.</p>	<p>Newbold, Stephen                      Marten, Alex</p> <p><b>NCEE</b></p>

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<b>Nom.</b>	<b>Titles and Citations of Submitted Papers</b>	<b>Authors and Nominating Organization</b>
<b>239</b>	Water Quality Indices and Benefit-Cost Analysis. Published by Journal of Benefit-Cost Analysis.	Wheeler, William Walsh, Patrick  <b>NCEE</b>
<b>243</b>	(1) Cold Temperature and Biodiesel Fuel Effects on Speciated Emissions of Volatile Organic Compounds from Diesel Trucks. Published by Environmental Science & Technology.  (2) Effects of Cold Temperature and Ethanol Content on VOC Emissions from Light-Duty Gasoline Vehicles. Published by Environmental Science & Technology.	Snow, Richard Preston, William Long, Thomas Herrington, Jason Hays, Michael George, Ingrid George, Barbara Faircloth, James Baldauf, Richard  <b>NRMRL</b>

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***Key to Acronyms used in the above Tables***

- NCEA – ORD National Center for Environmental Assessment*
- NCEE – National Center for Environmental Economics*
- NERL – ORD National Exposure Research Laboratory*
- NHEERL – ORD National Health and Environmental Effects Laboratory*
- NRMRL – ORD National Risk Management Research Laboratory*
- OSP – ORD Office of Science Policy*
- OW – Office of Water*