



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

**OFFICE OF THE ADMINISTRATOR
SCIENCE ADVISORY BOARD**

January 27, 2012

EPA-SAB-12-003

The Honorable Lisa P. Jackson
Administrator
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

Subject: SAB Recommendations for EPA's FY2011 Scientific and Technological
Achievement Awards

Dear Administrator Jackson:

The EPA Science Advisory Board (SAB) is pleased to transmit its recommendations for the FY 2011 Scientific and Technological Achievement Awards (STAA). The STAA program was established 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. The SAB has been asked by EPA's Office of Research and Development to review EPA's nominated scientific papers and make recommendations for awards. We are pleased to continue our participation in this important program.

This year, the agency submitted a total of 134 nominations comprised of 185 publications in 13 out of 14 science and technology categories. The SAB combined eight of the nominations into four nominations due to topic similarities. Of the 130 nominations, the SAB recommends 51 nominations for monetary awards and another 44 as deserving of honorable mention. Of the nominations recommended for monetary awards, 3 were recommended for Level I, the highest award; 13 for Level II; and 35 for Level III. The SAB's recommendations are provided in the enclosed appendices.

The SAB appreciates the agency's implementation of the SAB recommendations from last year's review regarding nomination procedures, which has significantly improved the SAB's ability to develop its 2011 STAA recommendations. In particular, the SAB concludes that almost all of the 2011 nominations adhered to existing STAA program guidelines and were properly categorized.

To further facilitate future review, the SAB recommends that, for nominations comprised of multiple publications, the nomination packages should provide the basis for the link between publications. The Committee has also observed that there is a tendency for certain authors to submit multiple nominations comprised of more than one publication on similar subject areas. This practice does not enhance the

opportunity for an award. Rather, it impedes the review process. The SAB believes that the guiding principle should be quality over quantity.

In addition, the SAB urges the agency to disallow submission of nominations published by a standards-setting organization such as the American Society for Testing and Materials International (ASTM) as the assignment of authorship and the nature of peer review cannot be verified. The SAB also recommends that EPA revise the STAA eligibility criteria for nominations of book chapters, and require that only book chapters that have undergone external peer review by the publishers may be nominated for a STAA award. Finally, the EPA should consider changes to its nomination categories to reflect the agency's new directions that emphasize integrated, transdisciplinary research and sustainability.

The SAB applauds the agency's public recognition of the scientific work of EPA scientists and engineers through publication in the peer-reviewed literature. This promotes the sound science and high quality research that bolsters the EPA's mission. Thank you for providing the SAB with the opportunity to assist the agency with this important program. The SAB looks forward to reviewing the FY 2012 nominations.

Sincerely,

/Signed/

/Signed/

Dr. Deborah L. Swackhamer, Chair
EPA Science Advisory Board

Dr. Taylor Eighmy, Chair
SAB Scientific and Technological
Achievement Awards Committee

Enclosures

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 necessarily 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 (STAA) were 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 2011 STAA program to senior managers and employees in November 2010 (Appendix A). 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. In May 2011, ORD submitted to the SAB Staff Office 134 nominations for 2011 STAA awards in 13 of 14 possible science and technology categories.

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 a fourth, non-cash level award 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

In response to the EPA's request, the SAB Staff Office augmented the 2009-2011 SAB STAA Committee with additional experts to review the FY2011 STAA nominations. The augmented 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). Where conflicts or potential conflicts of interest existed, Committee members recused themselves from the review and disposition of the recommendations for certain nominations as appropriate.

All nominations and nomination evaluation criteria were provided to the Committee in advance of the review meeting. The SAB review consisted of a two-step process: an initial review of each nomination, followed by a Committee discussion of all nominations. Each member was asked to review a set of nominations suited to the member's expertise or preference, and the initial review of each nomination was conducted by two or three members. Prior to the meeting, Committee members provided their individual initial ratings of the nominations based on the EPA's award criteria as described under Section 1.

The Committee met at a closed meeting on August 9-10, 2011, in Washington, DC. The meeting was closed to the public to protect the personal privacy of the authors. Committee members reviewed 134 nominations. The Committee discussed each of the 134 nominations and developed a preliminary rating for each nomination. In some cases, additional readers reviewed the publications to provide further insights in their evaluation. The Committee combined eight nominations into four nominations due to topic similarities of publications within the nominations. Accordingly, the Committee considered 130 nominations for award (see Table 1). The Committee then reached consensus on the evaluations and recommendations for awards. In addition to discussion of the nominated publications, the Committee discussed administrative recommendations for improving future STAA nominations and processes. The external draft report (October 24, 2011, without Appendix) was discussed and approved by the chartered SAB at a public teleconference on December 6, 2011.

Table 1. 2011 STAA Nominations by Topic Category

Topic	Number of Nominations Submitted to SAB	Number of Nominations Reviewed by SAB^a
Control Systems and Technology	3	3
Ecological Research	24	23 ^b
Energy and the Environment	1	1
Environmental Policy and Decisionmaking Studies	6	6
Health Effects Research and Human Health Risk Assessment	24	24
Homeland Security	2	2
Industry and the Environment	2	2
Integrated Risk Assessment	6	6
Monitoring and Measurement Methods	22	20 ^{d,e}
Other Environmental Research	3	3
Review Articles	20	20
Risk Management and Ecosystem Restoration	0	0
Sustainability and Innovation	3	3
Transport and Fate	18	17 ^c
TOTAL	134	130

a - SAB combined eight nominations into four nominations due to topic similarities of publications within the nominations.

b - SAB linked nomination #S11ER0017 (Ecological Research topic area) with nomination #S11ER0032 (Ecological Research topic area) to form one nomination in the Ecological Research topic area.

c - SAB linked nomination #S11ER0029 (Ecological Research topic area) with nomination #S11TF0138 (Transport and Fate topic area) to form one nomination in the Ecological Research topic area.

d - SAB linked nomination #S11IR0068 (Integrated Risk Assessment topic area) with nomination #S11MM0074 (Monitoring and Measurement Methods topic area) to form one nomination in the Integrated Risk Assessment topic area.

e - SAB linked nomination #S11MM0087 (Monitoring and Measurement Methods topic area) with nomination #S11MM0089 (Monitoring and Measurement Methods topic area) to form one nomination in the Monitoring and Measurement Methods topic area.

3. AWARD RECOMMENDATIONS

Table 2 summarizes the awards by year since 2000, including the recommendations for 2011. The Committee recommended 51 nominations for 2011 STAA monetary awards and another 44 for honorable mention. Of the works recommended for monetary awards, three were recommended for Level I, 13 for Level II, and 35 for Level III. Appendix B lists the recommended monetary awards and nominations that deserve an Honorable Mention. The final rankings were agreed to at the meeting by Committee consensus. Table 3 summarizes the distribution of 2011 award recommendations among categories.

Table 2. Comparison of Award Recommendations over Time

Award Level	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Nominations Reviewed	102	126	140	136	146	110	90	140	130	109	121	130 ^a
Level I	0	2	4	7	6	3	5	5	5	3	5	3
Level II	5	11	7	18	13	6	11	13	16	22	14	13
Level III	36	29	26	29	32	30	29	37	30	31	42	35
Honorable Mention	20	21	39	33	37	31	26	45	43	25	33	44
Not Recommended	41	63	64	49	58	40	19	40	36	28	27	35

a - The SAB combined eight nominations into four nominations due to topic similarities of publications within the nominations.

Table 3. Summary Number of Award Recommendations by Category for FY2011^a

Nomination Categories	Total Nominations	Award Levels				Honorable Mention
		I	II	III	Total	
Control Systems and Technology	3	0	0	1	1	1
Ecological Research	23 ^b	1	4	3	8	7
Energy and the Environment	1	0	0	0	0	1
Environmental Policy and Decisionmaking Studies	6	0	1	2	3	1
Health Effects Research and Human Health Risk Assessment	24	0	1	13	14	8
Homeland Security	2	0	0	0	0	1
Industry and the Environment	2	0	0	0	0	1
Integrated Risk Assessment	6	1	1	2	4	0
Monitoring and Measurement Methods	20 ^{d,e}	0	0	4	4	11
Other Environmental Research	3	0	1	0	1	0
Review Articles	20	1	2	7	10	5
Risk Management and Ecosystem Restoration	0	0	0	0	0	0
Sustainability and Innovation	3	0	0	1	1	1
Transport and Fate	17 ^c	0	3	2	5	7
TOTALS:	130	3	13	35	51	44

a - SAB combined eight nominations into four nominations due to topic similarities of publications within the nominations.

b - SAB linked nomination #S11ER0017 (Ecological Research topic area) with nomination #S11ER0032 (Ecological Research topic area) to form one nomination in the Ecological Research topic area.

c - SAB linked nomination #S11ER0029 (Ecological Research topic area) with nomination #S11TF0138 (Transport and Fate topic area) to form one nomination in the Ecological Research topic area.

d - SAB linked nomination #S11IR0068 (Integrated Risk Assessment topic area) with nomination #S11MM0074 (Monitoring and Measurement Methods topic area) to form one nomination in the Integrated Risk Assessment topic area.

e - SAB linked nomination #S11MM0087 (Monitoring and Measurement Methods topic area) with nomination #S11MM0089 (Monitoring and Measurement Methods topic area) to form one nomination in the Monitoring and Measurement Methods topic area.

4. ADMINISTRATIVE RECOMMENDATIONS

The SAB appreciates the EPA's implementation of the recommendations from last year's SAB report to the Administrator which greatly improves the nomination process and enhances the integrity of the program. In particular, the SAB concludes that almost all of the 2011 nominations adhered to existing STAA program guidelines and were properly categorized. Also, the agency's submittal of the index of STAA publications nominated during the previous five years and a table that alphabetically lists all researchers that have been nominated more than once for that year's awards provided for a much more efficient review.

The SAB has the following recommendations to further strengthen the nomination process in future years:

- *Continue ORD's preparation of a master index.* The EPA's current STAA program guidelines prohibit resubmission of publications nominated for STAA awards in prior years. To verify that publications nominated in prior years are not being resubmitted, the EPA submitted a master index that lists nominations from the previous five years. The SAB requests that the index separately list any author who has been nominated more than once during the previous five years and indicate the titles of that author's nominated publications. A table should also be provided that alphabetically lists all researchers that have been nominated more than once for the current year's STAA.
- *Clarify the relationship between publications within nominations comprised of multiple publications.* The Agency accepts nominations of up to three publications with similar subjects and authors. Publications in excess of three can be included in the nomination as supplemental items for consideration by the Committee. In some situations, the Committee found it difficult to identify the link between subject matter within different publications submitted as part of a single nomination. The SAB recognizes the importance of recognizing contributions made through the total output of EPA authors, and encourages EPA to ensure that the justifications for nominations comprising more than one publication clarify the relationship between publications within such nominations. For example, the justification could describe how one publication builds on the results of a second publication.
- *Bundling of publications.* The EPA's current STAA nomination requirements do not limit the number of nominations that may be submitted by a contributing author. The Committee has observed that there is a tendency for certain authors to submit multiple nominations comprised of more than one publication on very similar subjects and topics. This practice does not enhance the opportunity for an award. Rather, it impedes the review process. The SAB believes that the guiding principle should be quality over quantity.
- *Disallow submission of nominations from standards-setting organizations which develop standards through a committee process involving an intensive series of peer reviews.* Nominations of publications by certain standards-setting organizations are commendable but difficult to ascertain and ascribe authorship contribution if the organizations develop standards through a committee process involving an intensive series of peer reviews. For example, standards developed through the American Society for Testing and Materials International are initially drafted by a task group and then reviewed and revised sequentially by an ASTM

subcommittee, ASTM main committee, and then by ASTM Society Members. The level of credit and responsibility linked to each task group member's contribution is often unclear because the initial draft is a product of a task group, and because the final product frequently incorporates input from a large number of peer reviewers after an initial draft standard is developed. The SAB thus urges that the nomination guidelines be updated to disallow nomination of publications by standards-setting organizations such as ASTM which develop standards through an intensive series of peer reviews.

- *Revise eligible nomination criteria for book chapters.* The selection of peer review mechanism is critical for enhancing a scientific or technical work product so that the product has a sound, credible basis. The nature and extent of peer review conducted on nominated book chapters is frequently uncertain. Some publishers require that external peer review occur for book chapters, and some do not have requirements for peer review. The SAB recommends that EPA revise the STAA eligibility criteria for nominations of book chapters. The criteria should require that only book chapters that have undergone external peer review by the publishers may be nominated for a STAA award.

APPENDIX A

November 18, 2010

MEMORANDUM

SUBJECT: The 2011 Scientific and Technological Achievement Awards (STAA) Program

FROM: Paul T. Anastas
Assistant Administrator (8101R)

TO: Assistant Administrators
Associate Administrators
Regional Administrators

It is a pleasure to announce this year's call for nominations for the 2011 Scientific and Technological Achievement Awards (STAA) program. STAA is an Agency-wide competition, judged by the Science Advisory Board (SAB), which recognizes outstanding published scientific and technical papers by the Agency's staff. This year's nominations will be accepted via electronic submission to nomination.STAA@epa.gov.

It should be noted that upon the recommendation of the SAB STAA review committee, the pilot program for EPA Project and Research Reports nominations has been discontinued.

Attached are (1) nomination procedures and guidelines, (2) program schedule, and (3) nomination forms. Official 2011 nomination forms are available for your convenience in MS Word and screen fillable Portable Document Format (PDF) at <http://epa.gov/ncer/staa/>. All nominations must be received no later than midnight ET Thursday, January 27, 2011. Instructions for completion and electronic submission of nomination packages are attached. Should questions arise, please contact Dr. Thomas O'Farrell at (202) 343-9639 or o'farrell.thomas@epa.gov.

cc: EPA Science Advisory Board
EPA Program Offices
EPA Regional Offices
ORD Center/Laboratory Directors

November 18, 2010

MEMORANDUM

SUBJECT: The 2011 Scientific and Technological Achievement Awards (STAA) Program

FROM: Paul T. Anastas
Assistant Administrator

TO: All EPA Employees

I am pleased to issue this year's call for nominations for the EPA's prestigious 2011 Scientific and Technological Achievement Awards (STAA). Each year, EPA recognizes outstanding papers written by the Agency's staff and published in scientific and technical journals. STAA is open to all EPA employees. Nominations are judged by the EPA's Science Advisory Board (SAB), and managed by the Office of Research and Development.

Nominations can be submitted in the following categories:

- Control Systems and Technology
- Ecological Research
- Health Effects Research and Human Health Risk Assessment
- Monitoring and Measurement Methods
- Transport and Fate
- Review Articles
- Risk Management and Ecosystem Restoration
- Integrated Risk Assessment
- Environmental Policy and Decision-Making Studies
- Homeland Security
- Industry and the Environment
- Energy and the Environment
- Sustainability and Innovation
- Other Environmental Research

STAA winners are eligible for monetary awards.

The pilot program for the EPA Project and Research Reports nominations has been discontinued, based upon the recommendations of the SAB STAA review committee.

This year's nominations will be accepted via electronic submission to nominations.STAA@epa.gov. You can find the nomination forms and guidelines and additional information about the STAA program at www.epa.gov/ncer/staa/. Nominations will be accepted until midnight ET on Thursday, January 27, 2011. Should questions arise, please contact Thomas O'Farrell at (202) 343-9639 or o'farrell.thomas@EPA.gov.

APPENDIX B. NOMINATIONS RECOMMENDED FOR STAA AWARDS

Note: The percentages given after each name represent the percent of the total level of effort as documented in the EPA nomination.

Nominations Recommended for a Level I Award -- Total of 3		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11ER 0033	<p>(1) Influence of Trophic Position and Spatial Location on Polychlorinated Biphenyl (PCB) Bioaccumulation in a Stream Food Web</p> <p>(2) The Dark Side of Subsidies: Adult Stream Insects Export Organic Contaminants to Riparian Predators</p> <p>(3) Spider-Mediated Flux of PCBs From Contaminated Sediments To Terrestrial Ecosystems And Potential Risks To Arachnivoracious Birds</p>	<p>Dr. Walters, David M. (35%) Dr. Fritz, Ken M. (25%) Dr. Mills, Marc A. (15%) Dr. Johnson, Brent R. (5%) Dr. Lazorchak, James M. (5%) Dr. Raikow, David F. (5%) Dr. McCormick, Frank H. (5%)</p> <p>NERL</p>
S11IR0 069	<p>A Physiologically Based Toxicokinetic Model for Methylmercury in Female American Kestrels</p>	<p>Dr. Nichols, John W. (40%) Dr. Bennett, Richard S. (20%) Dr. Rossmann, Ronald (20%) Mr. Sappington, Keith G. (10%)</p> <p>NHEERL</p>
S11RA 0100	<p>(1) Pharmaceutical Ingredients in Drinking Water: Overview of Occurrence and Significance of Human Exposure</p> <p>(2) Pharmaceuticals as Environmental Pollutants: the Ramifications for Human Exposure</p>	<p>Dr. Daughton, Christian (100%)</p> <p>NERL</p>

Nominations Recommended for a Level II Award -- Total of 13		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11EP0010	A Multi-Pollutant, Risk-Based Approach to Air Quality Management: Case Study for Detroit	Ms. Wesson, Karen (45%) Mr. Fann, Neal (30%) Mr. Morris, Mark (15%) Mr. Fox, Tyler (5%) Dr. Hubbell, Bryan (5%) OAR
S11ER0012	Uncertainty Propagation in an Ecosystem Nutrient Budget	Dr. Lehrter, John (70%) NHEERL
S11ER0017	Adverse Outcome Pathways: A Conceptual Framework to Support Ecotoxicology Research and Risk Assessment	Dr. Bennett, Richard S. (8%) Dr. Hornung, Michael W. (8%) Dr. Johnson, Rodney D. (8%) Dr. Mount, David R. (8%) Dr. Nichols, John W. (8%) Ms. Russom, Christine L. (8%) Dr. Schmieder, Patricia K. (8%) Dr. Serrano, Jose A. (8%) Dr. Villeneuve, Daniel L. (8%) Dr. Ankley, Gerald T. (7%) Dr. Erickson, Russell J. (7%) Dr. Hoff, Dale J. (7%) Mr. Tietge, Joseph E. (7%)
Linked With		
S11ER0032	(1) Altered Gene Expression in the Brain and Liver of Female Fathead Minnows <i>Pimephales Promelas</i> Rafinesque Exposed to Fadrozole (2) Altered Gene Expression in the Brain and Ovaries of Zebrafish (<i>Danio rerio</i>) Exposed to the Aromatase Inhibitor Fadrozole: Microarray Analysis and Hypothesis Generation (3) Influence of Ovarian Stage on Transcript Profiles in Fathead Minnow (<i>Pimephales promelas</i>) Ovary Tissue	Dr. Villeneuve, Daniel L. (34%) Dr. Ankley, Gerald T. (9%) Dr. Knoebel, Iris (3%) Dr. Wang, Rong-Lin (3%) Mr. Kahl, Michael D. (3%) Dr. Biales, Adam D. (3%) Dr. Bencic, David C. (3%) Dr. Lazorchak, James M. (3%) Dr. Toth, Gregory P. (3%) NHEERL
S11ER0019	Ecohydrologic Separation of Water Between Trees and Streams in a Mediterranean Climate	Dr. Brooks, J. Renee (65%) NHEERL

Nominations Recommended for a Level II Award -- Total of 13		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11ER0021	<p>(1) Exposure of Three Generations of the Estuarine Sheepshead Minnow (<i>Cyprinodon variegatus</i>) to the Androgen 17B-trenbolone: Effects on Survival, Development, and Reproduction</p> <p>(2) Multigenerational Exposure of the Estuarine Sheepshead Minnow (<i>Cyprinodon variegatus</i>) to 17B-estradiol. I. Organism-Level Effects Over Three Generations</p> <p>(3) Multigenerational Exposure of the Estuarine Sheepshead Minnow (<i>Cyprinodon variegatus</i>) to 17B-estradiol. I. Population-Level Effects through Two Life Cycles</p>	<p>Ms. Cripe, Geraldine (33%) Dr. Raimondo, Sandy (24%) Ms. Hemmer, Rebecca (24%) Mr. Goodman, Larry (10%) Dr. Hemmer, Michael (2%) Dr. Fournie, John (2%)</p> <p>NHEERL</p>
S11HE0038	<p>(1) Characterization of the Effects of Inhaled Perchloroethylene on Sustained Attention In Rats Performing a Visual Signal Detection Task</p> <p>(2) Acute Perchloroethylene Exposure Alters Rat Visual-Evoked Potentials in Relation to Brain Concentrations</p> <p>(3) Long-Term Perchloroethylene Exposure: A Meta-Analysis of Neurobehavioral Deficits in Occupationally and Residentially Exposed Groups</p>	<p>Ms. Oshiro, Wendy M. (13%) Mr. Krantz, Q. Todd (13%) Dr. Boyes, William K. (12%) Dr. Bushnell, Philip J. (12%)</p> <p>NHEERL</p>
S11M0074	<p>Analysis of Ecologically Relevant Pharmaceuticals in Wastewater and Surface Water using Selective Solid-Phase Extraction and UPLC-MS/MS</p>	<p>Dr. Batt, Angela (75%) Dr. Kostich, Mitchell (15%) Dr. Lazorchak, James (10%)</p>
Linked With		
S11IR0068	<p>Risks to Aquatic Organisms Posed by Human Pharmaceutical Use</p>	<p>Dr. Kostich, Mitchell (75%) Dr. Lazorchak, James (25%)</p> <p>NERL</p>
S11OR0096	<p>Massive Volcanic SO₂ Oxidation and Sulphate Aerosol Deposition in Cenozoic North America</p>	<p>Dr. Yu, Shaocai (50%)</p> <p>NERL</p>

Nominations Recommended for a Level II Award -- Total of 13		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11RA 0108	Key Scientific Findings and Policy-and Health- Relevant Insights from the U.S. Environmental Protection Agency's Particulate Matter Supersites Program And Related Studies: An Integration And Synthesis of Results	Dr. Solomon, Paul (93%) Dr. Scheffe, Richard (1%) NERL
S11RA 0115	Cellular Stress Response Pathway System as a Sentinel Ensemble in Toxicological Screening	Dr. Simmons, Steven O. (50%) Dr. Ramabhadran, Ram (30%) NHEERL
S11TF0 122	Nitrous Oxide Emissionsfrom the Gulf of Mexico Hypoxic Zone	Dr. Walker, John T. (80%) Mr. Geron, Chris (5%) NRMRL
S11TF0 127	Linking Global to Regional Models to Assess Future Climate Impacts on Surface Ozone Levels in the United States	Dr. Nolte, Christopher G. (60%) Dr. Gilliland, Alice B. (30%) NERL
S11TF0 130	To What Extent Can Biogenic SOA be Controlled	Dr. Pinder, Robert W. (30%) Dr. Carlton, Annmarie G. (30%) Dr. Bhave, Prakash V. (20%) Mr. Pouliot, George A. (20%) NERL

Nominations Recommended for a Level III Award -- Total of 35		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11CS0002	Biodegradability of Lingering Crude Oil 19 Years after the Exxon Valdez Oil Spill	Dr. Venosa, Albert D. (70%) NRMRL
S11EP0005	Maximizing Empower on a Human-Dominated Planet: The Role of Exotic Spartina	Dr. Campbell, Daniel (60%) NHEERL
S11EP0009	(1) Introduction to Economic Jargon and Decision Tools (2) A Closer Look at Valuation Methods and Their Uses (3) Using Hedonic Modeling to Value AMD Remediation in the Cheat River Watershed	Dr. Thurston, Hale W. (30%) Dr. Heberling, Matthew T. (30%) Dr. Williamson, James M. (20%) NRMRL
S11ER0015	(1) Influence of Taxonomic Relatedness and Chemical Mode of Action in Acute Interspecies Estimation Models for Aquatic Species (2) Standardizing Acute Toxicity Data for Use in Ecotoxicology Models: Influence of Test Type, Life Stage and Concentration Reporting	Dr. Raimondo, Sandy (50%) Dr. Barron, Mace (30%) Ms. Vivian, Deborah (10%) Ms. Jackson, Crystal (10%) NHEERL
S11ER0026	(1) Sediment Microbial Enzyme Activity as an Indicator of Nutrient Limitation in the Great Rivers of the Upper Mississippi River Basin (2) Microbial Enzyme Activity, Nutrient Uptake and Nutrient Limitation in Forested Streams (3) Ecoenzymatic Stoichiometry of Microbial Organic Matter Nutrient Acquisition in Soil and Sediment	Dr. Hill, Brian H. (45%) Ms. Elonen, Colleen M. (20%) Dr. McCormick, Frank H. (5%) Ms. Jicha, Terri M. (2%) Dr. Bolgrien, David W. (2%) Dr. Moffett, Mary F. (2%) NHEERL
S11ER0028	The Western Airborne Contaminant Assessment Project (WACAP): An Interdisciplinary Evaluation of the Impacts of Airborne Contaminants in Western U.S. National Parks	Dr. Landers, Dixon H. (52%) NHEERL
S11HE0037	Regression Calibration for Classical Exposure Measurement Error in Environmental Epidemiology Studies Using Multiple Local Surrogate Exposures	Dr. Bateson, Thomas F. (67%) Dr. Wright, J. Michael (33%) NCEA

Nominations Recommended for a Level III Award -- Total of 35		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11HE 0042	Effect of Size-Fractional on the Toxicity of Amosite and Libby Amphibole Asbestos	Dr. Devlin, Robert (25%) Dr. Bern, Amy (10%) Dr. Ghio, Andrew (10%) Ms. Dailey, Lisa (5%) NHEERL
S11HE 0045	PAVA: Physiological and Anatomical Visual Analytics for Mapping of Tissue-Specific Concentration and Time-Course Data	Dr. Goldsmith, Michael-Rock (50%) Dr. Chang, Daniel T. (10%) Dr. Tornero-Velez, Rogelio (10%) Dr. Breen, Michael S. (10%) Dr. Dary, Curtis C. (10%) NERL
S11HE 0046	(1) Aging and Susceptibility to Toluene in Rats: A Pharmacokinetic, Biomarker, and Physiological Approach (2) Cardiac and Thermal Homeostasis in the Aging Brown Norway Rat	Dr. Gordon, Christopher J. (24%) Dr. Kodavanti, Urmila P. (12%) Dr. MacPhail, Robert C. (12%) Dr. Kenyon, Elaina M. (12%) Ms. Richards, Judy E. (6%) Dr. Devito, Mike (6%) Ms. Schladweiler, Mette C. (6%) Dr. Mack, Cina M. (6%) NHEERL
S11HE 0047	Analysis of Eight Oil Spill Dispersants Using Rapid, In Vitro Tests for Endocrine and Other Biological Activity	Dr. Judson, Richard (10%) Mr. Martin, Matthew (9%) Dr. Reif, David (9%) Dr. Dix, David (8%) Dr. Houck, Keith (8%) Dr. Knudsen, Thomas (6%) Dr. Kavlock, Robert (4%) NCCT
S11HE 0050	Development of a Quantitative Model Incorporating Key Events in a Hepatotoxic Mode of Action to Predict Liver Tumor Incidence	Dr. Luke, Nicholas S. (30%) Dr. Sams, II, Reeder L. (30%) Dr. El-Masri, Hisham A. (30%) Dr. Devito, Michael J. (5%) Dr. Conolly, Rory (5%) NCEA

Nominations Recommended for a Level III Award -- Total of 35		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11HE 0051	Differences Between Human and Rat Intestinal and Hepatic Bisphenol a Glucuronidation and the Influence of Alamethicin on In vitro Kinetic Measurements	Mr. Mazur, Christopher S. (30%) Dr. Kenneke, John F. (30%) Dr. Hess-Wilson, Janet K. (20%) Dr. Lipscomb, John C. (20%) NERL
S11HE 0052	Evaluating Cumulative Organophosphorus Pesticide Body Burden of Children: A National Case Study	Dr. Payne-Sturges, Devon (35%) Mr. Axelrad, Daniel A. (15%) Dr. Woodruff, MPH, Tracey J. (10%) NCER
S11HE 0054	Endocrine Profiling and Prioritization of Environmental Chemicals Using ToxCast Data	Dr. Reif, David (32%) Dr. Judson, Richard (11%) Dr. Houck, Keith (11%) Dr. Martin, Matthew (11%) Dr. Kavlock, Robert (8%) Dr. Dix, David (8%) Dr. Tan, Shirlee (8%) Dr. Knudsen, Thomas (8%) Dr. Richard, Ann (3%) NCCT
S11HE 0057	Perturbation Of Lipids and Glucose Metabolism Associated with Previous 2,4-D Exposure: A Cross-Sectional Study of NHANES III data, 1988-1994	Dr. Schreinemachers, Dina M. (100%) NHEERL
S11HE 0058	(1) An Observational Study of the Potential for Human Exposures to Pet-Borne Diazinon Residues Following Lawn Applications (2) Movement o Diazinon Residues into Homes Following Applications of a Granular Formulation to Residential Lawns	Mr. Stout, II, Daniel M. (27%) Ms. Morgan, Marsha K. (27%) Mr. Egeghy, Peter P. (15%) Mr. Jones, Paul A. (15%) Mr. Xue, Jianping (15%) NERL

Nominations Recommended for a Level III Award -- Total of 35		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11HE 0059	(1) Multimedia Measurements and Activity Patterns in an Observational Pilot Study of Nine Young Children (2) Organophosphorus and Pyrethroid Insecticide Urinary Metabolite Concentrations in Young Children Living in a Southeastern United States City (3) Methodologies for Estimating Cumulative Human Exposures to Current-Use Pyrethroid Pesticides	Dr. Tulve, Nicolle S. (35%) Dr. Egeghy, Peter P. (30%) Dr. Fortmann, Roy C. (5%) Mr. Whitaker, Donald A. (4%) Dr. Xue, Jianping (4%) Dr. Sheldon, Linda S. (3%) Mr. Evans, Jeff (3%) Ms. Croghan, Carry W. (3%) NERL
S11HE 0060	Exposure to Asbestos-Containing Vermiculite Ore and Respiratory Symptoms Among Individuals Who Were Children While the Mine Was Active in Libby, Montana	Dr. Vinikoor-Imler, Lisa C. (65%) Dr. Bateson, Thomas F. (25%) NCEA
S11IR0 065	Toxicity Equivalency Values for Polychlorinated Biphenyl Mixtures	Dr. Burkhard, Lawrence P. (65%) Ms. Lukasewycz, Marta T. (35%) NHEERL
S11IR0 066	(1) A Framework for Fully Integrating Environmental Assessments (2) A Theory of Practice for Environmental Assessment	Dr. Cormier, Susan M. (50%) Dr. Suter, II, Glenn W. (50%) NCEA
S11M M0079	Estimating Chlorophyll Conditions in Southern New England Coastal Waters from Hyperspectral Aircraft Remote Sensing	Dr. Keith, Darryl J. (100%) NHEERL
S11M M0081	Monitoring Agricultural Cropping Patterns Across the Laurentian Great Lakes Basin Using MODIS-NDVI Data	Dr. Lyon, John G. (5%) NERL
S11M M0088	Development of a U.S. EPA Drinking Water Method for the Analysis of Selected Perfluoroalkyl Acids by Solid-Phase Extraction and LC-MS-MS	Dr. Shoemaker, Jody A. (60%) Mr. Grimmitt, Paul E. (10%) NERL
S11M M0092	Aerostat Sampling of PCDD/PCDF Emissions from the Gulf Oil Spill In Situ Burns	Dr. Gullet, Brian (55%) NRMRL

Nominations Recommended for a Level III Award -- Total of 35		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11RA 0098	Development of a Computer-Assisted Personal Interview Software System for Collection of Tribal Fish Consumption Data	Dr. Williams, Ann H. (25%) Mr. Kissinger, Lon (25%) Dr. Lorenzana, Roseanne (5%) NHEERL
S11RA 0101	Natural Gas Plays in the Marcellus Shale: Challenges and Potential Opportunities	Dr. Kargbo, David M. (50%) Mr. Wilhelm, Ron G. (35%) Mr. Campbell, David J. (15%) Region 3 and OAR
S11RA 0104	Nitrogen Effects on Coastal Marine Ecosystems	Dr. Kelly, John R. (100%) NHEERL
S11RA 0105	Water Analysis: Emerging Contaminants and Current Issues	Dr. Richardson, Susan D. (100%) NERL
S11RA 0107	Chapter 20: Internal Corrosion and Deposition Control	Mr. Schock, Michael R. (85%) Dr. Lytle, Darren A. (15%) NRMRL
S11RA 0110	(1) Traditional Mould Analysis Compared to a DNA-based Method of Mould Analysis (2) Development of an Environmental Relative Moldiness Index for US Homes	Dr. Vesper, Stephen (100%) NERL
S11RA 0114	The Salmonella Mutagenicity Assay: The Stethoscope of Genetic Toxicology for The 21st Century	Dr. DeMarini, David M. (45%) Dr. Claxton, Larry D. (45%) NHEERL
S11SI0 119	(1) A National Assessment of Green Infrastructure and Change for the Conterminous United States Using Morphological Image Processing (2) Temporal Change in Fragmentation of Continental US Forests	Mr. Wickham, James D. (60%) Mr. Wade, Timothy G. (15%) NERL

Nominations Recommended for a Level III Award -- Total of 35		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11TF0 120	Seasonal Monoterpene and Sesquiterpene Emissions from Pinus Taeda and Pinus Virginiana	Mr. Geron, Chris D. (50%) Mr. Arnts, Robert R. (50%) NRMRL
S11TF0 124	Parameterization of N2O5 Reaction Probabilities on the Surface of Particles Containing Ammonium, Sulfate, and Nitrate	Dr. Bhave, Prakash (34%) Dr. Foley, Kristen (33%) NERL

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 44		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11CS0003	(1) Iron Amendment and Fenton Oxidation of MTBE-Spent Granular Activated Carbon (2) Fenton-Like Degradation of MTBE: Effects of Iron Counter Anion and Radical Scavengers	Dr. Huling, Scott G. (70%) NRMRL
S11EE0004	Potential Air Emission Impacts of Cellulosic Ethanol Production at Seven Demonstration Refineries in the U.S.	Dr. Jones, Donna Lee (100%) NRMRL
S11EP0007	Temperature Effects on Particulate Matter Emissions from Light-Duty, Gasoline-Powered Motor Vehicles	Dr. Nam, Edward (22%) Dr. Baldauf, Richard (22%) Mr. Fulper, Carl R. (22%) Mr. Warila, James (22%) NVFEL
S11ER0011	Wetlands as Sinks for Reactive Nitrogen at Continental and Global Scales: A Meta-Analysis	Dr. Jordan, Stephen (70%) Dr. Nestlerode, Janet (5%) NHEERL
S11ER0016	Predicting Coral Bleaching in Response to Environmental Stressors Using 8 Years of Global-scale Data	Dr. Yee, Susan Harrell (80%) Dr. Barron, Mace G. (20%) NHEERL
S11ER0018	Nitrous Oxide Emissions from a Large, Impounded River: The Ohio River	Dr. Beaulieu, Jake J. (80%) Dr. Shuster, William D. (10%) Mr. Rebholz, Jacob A. (10%) NRMRL
S11ER0022	Sex Reversal of the Amphibian, <i>Xenopus Tropicalis</i> , Following Larval Exposure to an Aromatase Inhibitor	Dr. Degitz, Sigmund J. (30%) Ms. Kosian, Patricia A. (10%) Mr. Korte, Joseph J. (10%) Mr. Holcombe, Gary W. (10%) NHEERL

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 44		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11ER 0023	Ecological Periodic Tables for Nekton Usage of Four US Pacific Northwest Estuarine Habitats	Dr. Ferraro, Steven P. (80%) Ms. Cole, Faith A. (20%) NHEERL
S11ER 0025	Quantifying Structural Physical Habitat Attributes Using LIDAR and Hyperspectral Imagery	Mr. Hall, Robert K. (50%) Mr. Heggem, Daniel T. (10%) Dr. Kaufmann, Philip R. (10%) NERL
S11ER 0029 Linked With	Empirical Relationship Between Eelgrass Extent and Predicted Watershed-Derived Nitrogen Loading for Shallow New England Estuaries	Dr. Latimer, James (50%) Mr. Rego, Steven (50%)
S11TF0 138	Nitrogen Inputs to Seventy-Four Southern New England Estuaries: Application of a Watershed Nitrogen Loading Model	Dr. Latimer, James (80%) NHEERL
S11HE 0035	Lung Injury Biomarkers	Dr. Kodavanti, Urmila P. (100%) NHEERL
S11HE 0041	(1) Toxicogenomic Dissection of the Perfluorooctanoic Acid Transcript Profile In Mouse Liver: Evidence for the Involvement of Nuclear Receptors PPAR Alpha And CAR (2) Evidence for the Involvement of Xenobiotic-Responsive Nuclear Receptors in Transcriptional Effects Upon Perfluoroalkyl Acid Exposure In Diverse Species (3) Characterization of Peroxisome Proliferator-Activated Receptor a (PPARa) - Independent Effects of PPARa Activators in the Rodent Liver: Di-(2-ethylhexyl) phthalate Activates the Constitutive Activated Receptor	Dr. Corton, Chris (32%) Dr. Ren, Hongzu (15%) Dr. Rosen, Mitchell B. (10%) Dr. Lau, Christopher (5%) Mrs. Vallanat, Beena (5%) Dr. Abbott, Barbara D. (5%) Ms. Wood, Carmen (5%) Mr. George, Michael H. (5%) Dr. Lee, Janice S. (5%) NHEERL
S11HE 0043	Assessing Children's Exposures and Risks to Drinking Water Contaminants: A Manganese Case Study	Ms. Foos, Brenda (50%) OCHPEE

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 44		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11HE 0044	Health Assessment of Phosgene: Approaches for Derivation of Reference Concentration	Dr. Gift, Jeffrey S. (50%) Dr. McGaughey, Robert (20%) Dr. Singh, Dharm (20%) Dr. Sonawane, Babasaheb (10%) NCEA
S11HE 0048	Pesticides in Urban Multiunit Dwellings: Hazard Identification Using Classification and Regression Tree (CART) Analysis	Dr. Julien, Rhona (50%) Region 1
S11HE 0053	Cumulative Exposure Assessment for Trace-Level Polycyclic Aromatic Hydrocarbons (PAHs) Using Human Blood and Plasma Analysis	Dr. Pleil, Joachim D. (50%) Dr. Sobus, Jon R. (10%) Dr. Ghio, Andrew J. (10%) Dr. Madden, Michael C. (10%) NERL
S11HE 0055	The Potential Metabolomic Approaches for Investigating Mode(s) of Action of Xenobiotics: Case Study with Carbon Tetrachloride	Dr. Vulimiri, Suryanarayana V. (50%) Dr. Babasaheb, Sonawane (25%) NCEA
S11HE 0056	What's in the Pool? A Comprehensive Identification of Disinfection By-Products and Assessment of Mutagenicity of Chlorinated and Brominated Swimming Pool Water	Dr. Richardson, Susan D. (35%) Dr. DeMarini, David M. (35%) NERL
S11HS 0061	Dry Thermal Resistance of Bacillus Anthracis (Sterne) Spores and Spores of Other Bacillus Species: Implications for Biological Agent Destruction Via Waste Incineration	Mr. Wood, Joseph P. (35%) Dr. Lemieux, Paul M. (30%) Dr. Betancourt, Doris A. (10%) NHSRC
S11IE0 063	Chemical Alternatives Assessment: Enabling Substitution to Safer Chemicals	Dr. Lavoie, Emma T. (12%) Dr. Lee, II, Robert E. (11%) Ms. Vrabel, Melanie A. (11%) Mr. DiFiore, David M. (11%) Mr. Davies, Clive L. (11%) OPPT

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 44		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11M M0071	Gene Mapping and Phylogenetic Analysis of the Complete Genome from 30 Single-Stranded RNA Male Specific Coliphages (Family Leviviridae)	Dr. Friedman, Stephanie (40%) Dr. Genthner, Fred (25%) NHEERL
S11M M0077	Method Development for the Analysis of 1,4-Dioxane in Drinking Water Using Solid-Phase Extraction and Gas Chromatography-Mass Spectrometry	Mr. Grimmett, Paul E. (50%) Ms. Munch, Jean W. (50%) NERL
S11M M0078	Validation of an Integrated Estimation of Loblolly Pine (<i>Pinus taeda</i> L.) Leaf Area Index (LAI) Using Two Indirect Optical Methods in the Southeastern United States	Dr. Iames, John S. (60%) Dr. Pilant, Andrew (15%) NERL
S11M M0080	Watershed Vulnerability Predictions for the Ozarks Using Landscape Models	Dr. Lopez, Ricardo D. (60%) Dr. Nash, Maliha S. (30%) Mr. Heggem, Daniel T. (5%) Mr. Ebert, Donald W. (5%) NERL
S11M M0082	(1) Surface-to-Food Pesticide Transfer as a Function of Moisture and Fat Content (2) Influences on Transfer of Selected Synthetic Pyrethroids from Treated Formica to Foods	Dr. Melnyk, Lisa Jo (50%) Dr. Vonderheide, Anne P. (11%) Dr. Bernard, Craig E. (8%) Dr. Morgan, Jeffrey N. (5%) NERL
S11M M0084	Use of Propidium Monoazide in Reverse Transcriptase PCR to Distinguish Between Infectious and Non-Infectious Enteric Viruses in Water Samples	Dr. Parshionikar, Sandhya (60%) Dr. Fout, G. Shay (10%) OW and NERL
S11M M0085	Identification of Bacterial Populations in Drinking Water Using 16S rRNA-based Sequence Analyses	Mr. Revetta, Randy P. (30%) Dr. Santo Domingo, Jorge W. (30%) NRMRL

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 44		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11M M0086	Role of Stream Restoration on Improving Benthic Macroinvertebrates and In-Stream Water Quality in a Urban Watershed: Case Study	Dr. Selvakumar, Ariamalar (50%) Mr. O'Connor, Thomas P. (30%) NRMRL
S11M M0087	(1) Performance of PCR-Based Assays Targeting Bacteroidales Genetic Markers of Human Fecal Pollution in Sewage and Fecal Samples (2) Performance Assessment of PCR-Based Assays Targeting Bacteroidales Genetic Markers of Bovine Fecal Pollution	Dr. Shanks, Orin C. (25%) Ms. Kelty, Catherine A. (15%) Dr. Varma, Manju (15%) Ms. White, Karen (10%) Dr. Sivaganesan, Mano (10%) Dr. Haugland, Richard A. (10%) Dr. Hayes, Sam (5%) Mr. Meckes, Mark (5%) Ms. Blannon, Janet (3%)
Linked With		
S11M M0089	Improved Strategies and Optimization of Calibration Models for Real-Time PCR Absolute Quantification	Dr. Sivaganesan, Mano (40%) Dr. Shanks, Orin C. (40%) Dr. Haugland, Richard A. (15%) NRMRL
S11M M0091	Cryptosporidium Propidium Monoazide-PCR, a Molecular Biology-Based Technique for Genotyping of Viable Cryptosporidium Oocysts	Dr. Villegas, Eric N. (20%) Ms. Griffin, Shannon M. (15%) Mr. Ware, Michael (10%) Ms. Varughese, Eunice A. (5%) Dr. Egorov, Andrey I. (5%) NERL
S11M M0093	Lake Superior Zooplankton Biomass: Alternate Estimates From a Probability-Based Net Survey And Spatially-Extensive LOPC Surveys	Dr. Yurista, Peder M. (40%) Dr. Kelly, John R. (30%) Mr. Miller, Samuel E. (30%) NHEERL

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 44		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11RA 0097	(1) Arsenic Induced Carcinogenesis-Oxidative Stress as a Possible Mode of Action and Future Research Needs for more Biologically Based Risk Assessment (2) The Role of Protein Binding of Trivalent Arsenicals in Arsenic Carcinogenesis and Toxicity. Journal of Inorganic Biochemistry (3) Arsenic's Interactions with Macromolecules and its Relationship to Carcinogenesis.	Dr. Kitchin, Kirk T. (60%) Ms. Wallace, Kathleen A. (30%) Dr. Conolly, Rory B. (10%) NHEERL
S11RA 0103	Computational Toxicology as Implemented by the U.S. EPA: Providing High Throughout Decision Support Tools for Screening and Assessing Chemical Exposure, Hazard and Risk	Dr. Kavlock, Robert (50%) Dr. Dix, David (50%) NCCT
S11RA 0106	(1) Tobacco and Pregnancy: Overview of Exposures and Effects (2) Tobacco and Pregnancy	Dr. Rogers, John M. (100%) NHEERL
S11RA 0112	Timing and Prediction of Climate Change and Hydrological Impacts: Periodicity in Natural Variations	Dr. Yang, Y. Jeffrey (60%) Dr. Goodrich, James A. (40%) NRMRL
S11RA 0116	(1) Disruption of the Arsenic (+3 oxidation state) Methyltransferase Gene in the Mouse Alters the Phenotype for Methylation of Arsenic and Affects Distribution and Retention of Orally Administered Arsenate (2) Arsenic (+3 oxidation state) Methyltransferase Genotype Affects Steady-State Distribution and Clearance of Arsenic in Arsenate-Treated Mice	Dr. Hughes, Michael F. (20%) Ms. Edwards, Brenda C. (20%) Dr. Thomas, David J. (10%) Ms. Herbin-Davis, Karen M. (10%) Dr. Creed, John T. (5%) NHEERL
S11SI0 117	(1) Beyond the Medicine Cabinet: An Analysis of Where and Why Medications Accumulate (2) The Afterlife of Drugs and the Role of PharmEcovigilance (3) Reducing the Ecological Footprint of Pharmaceutical Usage: Linkages between Healthcare Practices and the Environment	Dr. Daughton, Christian (100%) NERL

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 44		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11TF0 125	Contamination Profiles and Mass Loadings of Macrolide Antibiotics and Illicit Drugs from a Small Urban Wastewater Treatment Plant	Ms. Jones-Lepp, Tammy (50%) NERL
S11TF0 126	(1) Spatial Analysis and Land Use Regression Of VOCs and NO2 From School-Based Urban Air Monitoring in Detroit/Dearborn, USA (2) Field Comparison of Passive Air Samplers with Reference Monitors for Ambient Volatile Organic Compounds and Nitrogen Dioxide Under Week-Long Integrals	Dr. Mukerjee, Shaibal (15%) Dr. Johnson, Mary M. (10%) Dr. Neas, Lucas M. (10%) Ms. Croghan, Carry (10%) Mr. Seila, Robert L. (5%) NERL
S11TF0 131	Impacts of Noise Barriers on Near-Road Air Quality	Dr. Baldauf, Richard (18%) Dr. Thoma, Eben (18%) Dr. Isakov, Vlad (18%) Dr. Bowker, George (18%) NRMRL
S11TF0 132	(1) Protocol to Reconstruct Historical Contaminant Loading to Large Lakes: The Lake Michigan Sediment Record of Mercury (2) Total and Methyl Mercury Accumulation in 1994-1995 Lake Michigan Lake Trout and Forage Fish	Dr. Rossmann, Ronald (65%) NHEERL
S11TF0 133	(1) A Comparison of CMAQ HONO Predictions with Observations from the Northeast Oxidant and Particle Study (2) Examination of the Impact of Photoexcited NO2 Chemistry on Regional Air Quality (3) Eta-CMAQ Air Quality Forecasts for O3 And Related Species Using Three Different Photochemical Mechanisms (CB4, CB05, SAPRC-99): Comparisons With Measurements During the 2004 ICARTT Study	Dr. Sarwar, Golam (35%) Dr. Yu, Shaocai (13%) Dr. Mathur, Rohit (12%) Mr. Appel, K. Wyatt (8%) Dr. Dennis, Robin L. (7%) Dr. Pinder, Robert (5%) Mr. Roselle, Shawn (3%) Dr. Pouliot, George (3%) Dr. Pleim, Jon (3%) Dr. Carlton, Annmarie G. (2%) NERL

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 44		
Nom.	Titles and Citations of Submitted Papers	EPA Authors and Nominating Organization
S11TF0 135	(1) Modeling and Testing of Reactive Contaminant Transport in Drinking Water Pipes: Chlorine Response and Implications for Online Contamination Detection (2) Real-time Contaminant Detection and Classification in a Drinking Water Pipe Using Conventional Water Quality Sensors: Techniques and Experimental Results	Dr. Yang, Y. Jeffrey (50%) Dr. Goodrich, James A. (20%) Dr. Li, Sylvana Y. (10%) Mr. Haught, Roy C. (10%) NRMRL
S11TF0 137	Geochemical Impacts to Groundwater from Geologic Carbon Sequestration: Controls on pH And Inorganic Carbon Concentrations from Reaction Path and Kinetic Modeling	Dr. Wilkin, Richard T. (80%) Dr. DiGiulio, Dominic C. (20%) NRMRL

Key to Acronyms used in the above Tables

NCCT – Office of Research and Development (ORD) National Center for Computational Toxicology

NCEA – ORD National Center for Environmental Assessment

NCER – ORD National Center for Environmental Research

NERL – ORD National Exposure Research Laboratory

NHEERL – ORD National Health and Environmental Effects Laboratory

NHSRC – ORD National Homeland Security Research Center

NRMRL - ORD National Risk Management Research Laboratory

NVFEL - OAR's National Vehicle and Fuel Emissions Laboratory

OAR - Office of Air and Radiation

OCHPEE - Office of Children's Health Protection and Environmental Education

OPPT - Office of Pollution Prevention and Toxics

OW – Office of Water

Region 1 – EPA Region 1

Region 3 – EPA Region 3