



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

OFFICE OF THE ADMINISTRATOR
SCIENCE ADVISORY BOARD

December 18, 2008

EPA-SAB-09-008

The Honorable Stephen L. Johnson
Administrator
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, DC 20460

Subject: SAB Report of FY2008 Recommended Scientific and Technological
Achievement Awards (STAA)

Dear Administrator Johnson:

We are pleased to transmit for your consideration the Science Advisory Board's 2008 Scientific and Technological Achievement Awards report. Of 130 papers authored by Agency scientists received for nominations, the Committee recommends fifty-one for monetary awards and another forty-three for honorable mention. Of the papers recommended for awards, five were recommended for Level I, sixteen for Level II, and thirty for Level III.

The SAB commends the Agency for its support of this important program, the principal way in which science conducted within the Agency is given public recognition. We note in particular the increased monetary awards for each level as further evidence the Agency's commitment toward promoting sound science and supporting human capital. The SAB Committee has also made administrative recommendations related to the nomination procedure to facilitate future SAB reviews.

Thank you for providing us with the opportunity to assist the Agency with this important program and the SAB looks forward to reviewing the 2009 nominations.

Sincerely,

/Signed/

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

/Signed/

Dr. Thomas L. Theis, Chair
Scientific and Technological Achievement
Awards Committee

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. EXECUTIVE SUMMARY

EPA's Scientific and Technological Achievement Awards (STAA) was established in 1980 to recognize Agency scientists and engineers who published their work in the peer-reviewed literature. The STAA Program is an Agency-wide competition to promote and recognize scientific and technological achievements by EPA scientists. The STAA program is administered and managed by EPA's Office of Research and Development (ORD). Each year the EPA Science Advisory Board (SAB) has been asked to review EPA's nominated scientific papers and make recommendations to the Administrator for awards. This report represents the conclusions and recommendations of the SAB regarding the FY 2008 STAA.

At a closed meeting on July 9-11, 2008, the SAB STAA Committee reviewed and evaluated 130 papers nominated for FY2008. The topical categories were: Control Systems & Technology (CS), Environmental Futures (EF), Ecological Research (ER), Health Effects Research and Human Health Risk Assessment (HE), Integrated Risk Assessment (IR), Monitoring & Measurement Methods (MM), Review Articles (RA), Risk Management and Ecosystem Restoration (RM), Social Sciences (SS), Transport and Fate (TF), and Other Environmental Research (OR). The Committee recommended a total of 51 nominations for awards, and also identified an additional 43 nominations worthy of Honorable Mention. These recommendations appear in Appendix A.

In 2004 through 2006, the Agency honored those EPA authors receiving the highest level of awards at the annual EPA Science Forum. The Committee supports the Agency's public recognition of the STAA program to encourage employees to participate, add luster to the awards, and make the general public more aware of the quality and depth of EPA science. Publication of Agency science in the peer reviewed literature is critically important to maintaining the scientific credibility of the Agency in the eyes of both the scientific community and the public. This scientific credibility provides a foundation for sound regulatory decisions by the Agency's Program Offices. The Committee further commends the Agency for raising award levels, consistent with prior recommendations.

This year, the Committee identified two administrative procedures that would strengthen the nomination process: (a) a justification must be provided in situations where scientific papers on related themes are nominated for different categories; and (b) the size of any nomination package be limited to 100 pages. In addition, to facilitate the SAB review, the Committee urges the Agency to initiate the development of a searchable database that houses information pertaining to all nominated papers and authors and those who received recognition during the previous five years.

Overall, the Committee acknowledges the importance of the STAA process and encourages the Agency to continue support for the STAA program as a mechanism for recognizing and promoting high quality research in support of the Agency's mission. The Committee also strongly encourages that EPA broadly acknowledge and disseminate the results of the award competition.

2. REVIEW PROCEDURE

In 2008, the SAB convened a Committee to review and evaluate scientific and technological papers published in peer-reviewed journals by EPA authors and nominated for the FY 2008 STAA program. The current STAA Committee membership was established in 2005. The Committee was augmented with additional experts for the review of the 2008 nominations in accordance with the principles set out in the 2002 commentary of the Science Advisory Board, *Committee Formation Process: Immediate Steps to Improve Policies and Procedures* (EPA-SAB-EC-COM-02-003).

A total of 130 papers were nominated for the STAA program for 2008. Papers were grouped into twelve science and technology categories and screened for conformance with the nomination guidelines. The Committee used the EPA's *STAA Nomination Procedures and Guidelines*, which describes the award levels, eligibility criteria (including the minimum EPA contribution and employer status of the principal author), and the criteria the SAB should use to evaluate the nominations. The Committee was requested to consider each nominated paper for one of three award levels plus the honorable mention category. As defined by the Agency, these are:

- a) 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.
- b) 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.
- c) 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.
- d) Honorable Mention - The Committee has also added 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 Committee wants to encourage; or (3) show an area of research that the

Committees feels is too preliminary to warrant an award recommendation at this time.

Copies of all nominations, the award program guidelines, and nomination evaluation criteria were provided to the Committee in advance of the review meeting.

The Committee met on July 9-11, 2008 in Washington, DC. This meeting was closed to the public to protect the personal privacy of the authors. All but two Committee Members were present at the meeting. Each Committee Member was asked to review a set of papers suited to his or her expertise. Before the meeting, all of the Committee Members provided their individual initial ratings of the papers which were subsequently organized onto a summary table and distributed to the Committee. At least two reviewers considered each nomination.

The Committee discussed the individual rankings and nominations to develop a preliminary consensus rating for each nomination. The Committee first discussed the rankings on a nomination-by-nomination basis. In some cases, additional readers reviewed the papers to provide further insights in their evaluation.

After the Committee Members achieved consensus on each individual nomination, the Committee considered whether the papers were correctly rated in comparison with one another. The Committee compared various rankings and made adjustments, where warranted, until it was comfortable that the nominations were rated consistently in relationship to one another. Papers being recommended for awards received particular attention. Nominations that were not initially recommended for an award were reconsidered to determine whether they might merit either an Honorable Mention or an award.

The final ranking agreed to at that meeting is a consensus ranking. All nominations receiving a recommendation for a Level I, II or III award or an Honorable Mention are listed in Appendix A.

The Committee's draft report (without Appendix A which identifies the award recommendations) was reviewed and approved by the Chartered SAB by e-mail correspondence in December 2008.

3. RECOMMENDATIONS

3.1 Review Recommendations

Table 1 summarizes the Level I and Level II awards by year since 1998, including the recommendations for 2008. The awards criteria for 2008 remained the same as the previous year.

TABLE 1
Comparison of Number of Level I & II Award Recommendations over Time

Award Level	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008
Level I	3	1	0	2	4	7	6	3	5	5	5
Level II	11	7	5	11	7	18	13	6	11	13	16
Total Level I & II	14	8	5	13	11	25	19	9	16	18	21

Table 2 summarizes the distribution of award recommendations for 2008 among categories. Of 130 initial nominations, the Committee recommended 51 for an award and 43 for honorable mention.

TABLE 2
Summary Number of Award Recommendations by Category For FY2008

Nomination Categories	Total Nom.	Award Levels				Award %	Hon. Men.
		I	II	III	Tot		
Control Systems & Technology (CS)	5	0	0	0	0	0	4 ^{**}
Ecological Research (ER)	15	2	3	4*	9	60	1
Health Effects Research and Human Health Risk Assessment (HE)	24	2	5	7	14	58	6
Integrated Risk Assessment (IR)	8	1	0	1	2	25	5
Monitoring and Measurement Methods (MM)	20	0	4	5	9	45	4
Review Articles (RA)	20	0	3	5	8	40	8
Risk Management & Ecosystem Restoration (RM)	7	0	0	1	1	14	3
Social Sciences (SS)	1	0	0	0	0	0	1
Transport and Fate (TF)	15	0	0	3	3	20	6
Environmental Futures (EF)	2	0	0	0	0	0	0
Other Environmental Research (OR)	13	0	1	4	5	38	5
TOTALS:	130	5	16	30	51	39	43

* One paper in ER linked with one paper in TF for a single award

** One paper in CS linked with one paper in EF, one paper in OR, and one paper in TF for a single honorable mention

The full list of award recommendations is contained in Appendix A.

3.2 Administrative Recommendations

In the course of performing the 2008 STAA review, the committee made note of certain features of the program that might be improved for future competitions. These are related to the evaluation of the differential contributions of “bundled” papers, i.e. papers that are thematically closely linked, the need for an index of previous awards, and issues related to the quantity of materials included in the nomination packet for a given paper.

The Committee notes that it has become increasingly common for groups of papers to be nominated that have similar justifications, address themes and/or methodologies that are essentially the same, have the same or similar groups of authors, and support closely related conclusions. Often such papers are spread among different categories, and in some cases are submitted over several years (note: this does not refer the case where a paper that did not receive an award in a given year and that still meets the criteria for a subsequent nomination is resubmitted). In such cases it is often difficult, and time consuming, for the Committee to discern significant differences in intellectual and scientific contributions, confusing to find such papers spread among various categories and, since STAA does not maintain an index of previous awards, adds an element of arbitrariness to the process (i.e. the only check is reliance on the individual and collective memories of Committee members). Accordingly, the Committee makes the following recommendations:

- **When more than one paper is submitted in a given year with the same principal EPA author(s) on a related theme, a clear statement must be provided that states the relevant submission category and provides an explanation for how the contribution from each paper differs. This information should be placed in a prominent position in the nominating materials.**
- **The Agency should begin work on a STAA index of papers that have received awards and honorable mentions during the previous five years, updated annually. The Committee understands that such an undertaking is not trivial, and suggests that this effort be completed within the next two years.**

The Committee further notes that the amount of supplemental material submitted for nominated papers varies quite widely; in some cases the total nomination package can run to several hundred pages, while in others only the paper itself together with nominating forms is submitted. Such variation can create inequities as the Committee attempts to weigh the relative merit of papers within and, especially, across categories. Further, especially large sets of materials place an unnecessary burden on the reviewers. Accordingly, the Committee recommends that a limit of 100 pages be placed on the total nomination package.

The Committee further discussed a preliminary proposal put forth by ORD to allow nomination of ORD research reports, in addition to peer reviewed papers, to the STAA program but did not render a formal opinion.

Appendix A - Nominations Recommended for Awards

FY2008 Scientific and Technological Achievement Awards (STAA)

Nominations Recommended for a Level I Award -- Total of 5			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08ER 0017	Tissue distribution and metabolism of benzo[a]pyrene in embryonic and larval medaka ("Oryzias latipes")	Dr. Hornung, Michael W. (55%) Dr. Nichols, John W. (15%) Dr. Cook, Philip M. (10%) Dr. Fitzsimmons, Patrick N. (10%) Dr. Kuehl, Douglas W. (10%) NHEERL	Research to Understand the Metabolism and Tissue Distribution of Toxic Chemicals in Fish Early Life Stages
S08ER 0021	A Proteomic (SELDI-TOF-MS) Approach to Estrogen Agonist Screening	Dr. Walker, Calvin C. (30%) Dr. Hemmer, Michael J. (30%) Dr. Salinas, Kimberly A. (20%) Dr. Harris, Peggy S. (10%) Dr. Vickery, Sherry S. (5%) Dr. Watts, James D. (5% Non-EPA) NHEERL	Pioneering Work Developing and Applying a Rapid Technique to Classify Chemicals by Their Toxic Action
<i>*Note: The percentages given after name represent the current percent of the total level of effort as documented in the EPA nomination</i>			

Nominations Recommended for a Level I Award (Cont'd) -- Total of 5

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08HE 0037	<p>(1) Effects of perfluorooctanoic acid exposure during pregnancy in the mouse</p> <p>(2) Developmental toxicity of perfluorooctanoic acid (PFOA) after cross foster and restricted gestational exposure</p> <p>(3) Gene expression profiling in the lung and liver of PFOA-exposed mouse fetuses</p>	<p>Dr. Lau, Christopher (20%) Dr. Abbott, Barbara D. (17%) Dr. Rosen, Mitch (17%) Dr. Wolf, Cynthia J. (13%) Dr. Das, Kaberi (10%) Dr. Fenton, Suzanne E. (10%) Dr. Bryant, X.A. (1% Non-EPA) Dr. Calafat, A.M. (1% Non-EPA) Dr. Hanson, R.G. (1% Non-EPA) Dr. Lindstrom, A.B. (1% Non-EPA) Dr. Narotsky, M.G. (1% Non-EPA) Dr. Rogers, J.M. (1% Non-EPA) Dr. Schmid, J.E. (1% Non-EPA) Dr. Strynar, M.J. (1% Non-EPA) Dr. Thibodeaux, J.R. (1% Non-EPA) Dr. White, S.S. (1% Non-EPA) Dr. Wood, C.R. (1% Non-EPA) Dr. Zehr, R.D. (1% Non-EPA) Dr. Kulenyik, Z. (1% Non-EPA)</p> <p>NHEERL</p>	<p>A Team Contribution to the Understanding of Early-Life Health Effects Following Perinatal Exposure to PFOA in Mice</p>
S08HE 0040	<p>(1) Exposures of preschool children to chlorpyrifos and its degradation product 3,5,6-trichloro-2-pyridinol in their everyday environments</p> <p>(2) An observational study of 127 preschool children at their homes and daycare centers in Ohio: environmental pathways to cis- and trans-permethrin exposure</p> <p>(3) Adult and Children's exposure to 2,4-D from multiple sources and pathways</p>	<p>Dr. Morgan, Marsha K. (33%) Dr. Sheldon, Linda S. (25%) Dr. Croghan, Carry (10%) Dr. Jones, Paul A. (10%) Dr. Thomas, Kent W. (5%) Dr. Egeghy, Peter P. (5%) Dr. Roberson, Gary L. (1%) Dr. Wilson, Nancy K. (5% Non-EPA) Dr. Chuang, Jane C. (5% Non-EPA) Dr. Lyu, Christopher (1% Non-EPA)</p> <p>NERL</p>	<p>Identifying Important Sources, Pathways, and Routes of Children's Exposures to Pesticides in Their Environments</p>

Nominations Recommended for a Level I Award (Cont'd) -- Total of 5			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08IRO 136	(1) Mercury Exposure from Domestic and Imported Estuarine and Marine Fish in the U.S. Seafood Market (2) Human Impacts on Open Ocean Mercury Concentrations	Dr. Sunderland, Elsie (80%) Dr. Mason, Robert P. (20% Non-EPA) OSP	Development of Models Linking Mercury Emission Reductions and Concentrations in Marine Systems to Human Exposure
*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination			

Nominations Recommended for a Level II Award -- Total of 16			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08ER0013	(1) Progress towards development of an amphibian-based thyroid screening assay using "Xenopus laevis": Organismal and thyroidal responses to the model compounds 6-propylthiouracil, methimazole, and thyroxine (2) Metamorphic inhibition of "Xenopus laevis" by sodium perchlorate: Effects on development and thyroid histology	Dr. Degitz, Sigmund (22%) Dr. Tietge, Joseph (22%) Dr. Holcombe, Gary (15%) Dr. Kosian, Patricia (15%) Dr. Flynn, Kevin (10%) Dr. Korte, Joseph (8%) Dr. Wolf, Douglas (5%) Dr. Anderson, Leroy (3%) NHEERL	Development of an Amphibian-Based Thyroid Screening Assay
S08ER0016	Evaluating effects of low quality habitats on regional population growth in "Peromyscus leucopus": Insights from field-parameterized spatial matrix models	Dr. Gear, Jason (50%) Dr. Burns, Catherine E. (50% Non-EPA) NHEERL	Research into Methods of Assessing Localized Stressor Effects on Larger Scale Persistence of Wildlife Populations
S08ER0022	(1) Sources of bias in weighted average inferences of environmental conditions (2) Using biological assemblage composition to infer the values of covarying environmental factors (3) Effects of measurement error inferences of environmental conditions	Dr. Yuan, Lester L. (100%) NCEA	Developing New Analytical Methods That Identify the Causes of Impairment in Streams from Biological Assemblage Characteristics
*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination			

Nominations Recommended for a Level II Award (Cont'd) -- Total of 16

Nom.	Titles and Citations of Submitted Papers	Eligible Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08HE0029	Identification of Estrogenic Compounds Emitted from the Combustion of Computer Printed Circuit Boards in Electronic Waste	Dr. Wilson, Vickie S. (40%) Dr. Owens, Clyde V. (35%) Dr. Lambright, Christy (5%) Dr. Bobseine, Kathy (5%) Dr. Gullett, Brian K. (5%) Dr. Gray, Jr., L. Earl (5%) Dr. Ryan, Bryce (5% Non-EPA) NRMRL	Exceptional Research Demonstrating the Importance of Investigating Estrogens from Computer Printed Circuit Boards
S08HE0032	Transcriptional responses in thyroid tissues from rats treated with a tumorigenic and a non-tumorigenic triazole conazole fungicide	Dr. Hester, Susan D. (50%) Dr. Nesnow, Stephen C. (50%) NHEERL	An Exceptional Contribution that Applied Novel Bioinformation Tools to Identify a Mode of Action for a Thyroid Tumorigenic Conazole Fungicide
S08HE0041	Chronic Arsenic Exposure and Cardiac Repolarization Abnormalities with QT Interval Prolongation in a Population-based Study	Dr. Mumford, Judy (50%) Dr. Sanders, William E. (12% Non-EPA) Dr. Wu, Kegong (10% Non-EPA) Dr. Kwok, Richard (10% Non-EPA) Dr. Xia, Yajuan (8% Non-EPA) Dr. Yang, Zhihui (5% Non-EPA) Dr. Foster, James (5% Non-EPA) NHEERL	Linking Chronic Arsenic Exposure and Cardiac Effects on Electrical Signals in Humans

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

Nominations Recommended for a Level II Award (Cont'd) -- Total of 16

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08HE0045	Identification of interspecies concordance of mechanisms of arsenic-induced bladder cancer	Dr. Sen, Banalata (30%) Dr. Hester, Susan D. (25%) Dr. Wolf, Douglas C. (20%) Dr. Sen, Banalata (15% Non-EPA) Dr. Turpaz, Yaron (4% Non-EPA) Dr. Bugrim, Andrej (3% Non-EPA) Dr. Retief, Jacques (3% Non-EPA) NHEERL	In Vitro-In Vivo and Interspecies Concordance of Mechanisms of Arsenic-Induced Bladder Cancer
S08HE0132	(1) Quantitative comparisons of the acute neurotoxicity of toluene in rats and humans (2) A dosimetric analysis of the acute behavioral effects of inhaled toluene in rats (3) Acute toluene exposure alters rat visual function in proportion to momentary brain concentration	Dr. Bushnell, Philip J. (15%) Dr. Benignus, Vernon A. (15%) Dr. Boyes, William K. (15%) Dr. Oshiro, Wendy M. (15%) Dr. Kenyon, Elaina M. (15%) Dr. Shafer, Timothy J. (5%) Dr. Samsam, Tracey E. (5%) Dr. Krantz, Q. Todd (5%) Dr. Bercegeay, Mark (5%) Dr. Bale, Ambuja (5%) NHEERL	Research Quantifying Animal-to-Human Extrapolation in Risk Assessment, Using Toluene as a Case Study
S08M M0060	A General Indication of the Contemporary Background Levels of PCDDs, PCDFs, and Coplanar PCBs in the Ambient Air over Rural and Remote Areas of the United States	Dr. Cleverly, David H. (55%) Dr. Ferrario, Joseph (15%) Dr. Byrne, Christian (15%) Dr. Riggs, Karen (5% Non-EPA) Dr. Joseph, Darrell (5% Non-EPA) Hartford, Pamela (5% Non-EPA) NCEA	The High-Quality Scientific Achievement of Successfully Measuring Dioxins and PCBs in Rural and Remote Areas of the U.S.

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

Nominations Recommended for a Level II Award (Cont'd) -- Total of 16

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08M M0062	<p>(1) Metabolomic evaluation of rat liver and testis to characterize the toxicity of triazole fungicides</p> <p>(2) Raman spectroscopy-based metabolomics for differentiating exposures to triazole fungicides using rat urine</p> <p>(3) NMR analysis of male fathead minnow urinary metabolites: A potential approach for studying impacts of chemical exposures</p>	<p>Dr. Ekman, Drew R. (25%) Dr. Collette, Timothy W. (15%) Dr. Teng, Quincy (8%) Dr. Dix, David J. (6%) Dr. Ankley, Gerald T. (6%) Dr. Villeneuve, Dan L. (6%) Dr. Jensen, Kathleen M. (6%) Dr. Rockett, John C. (2%) Dr. Cherney, Daniel P. (8% Non-EPA) Dr. Keun, Hector C. (6% Non-EPA) Dr. Martinovic, Dalma (6% Non-EPA) Dr. Eads, Charles D. (2% Non-EPA) Dr. Furnish, Carrie M. (2% Non-EPA) Dr. Murrell, Rachel N. (2% Non-EPA)</p> <p>NERL</p>	<p>Establishing an Internationally Recognized Program in Environmental Metabolomics to Assess Chemical Exposure Risk</p>
S08M M0067	<p>(1) Mercury concentration in fish from streams and rivers throughout the western United States</p> <p>(2) Mercury concentration in frozen whole-fish homogenates is insensitive to holding time</p>	<p>Dr. Peterson, Spencer A. (49%) Dr. Van Sickle, John (15%) Dr. Peck, David V. (13%) Dr. Herlihy, Alan T. (13% Non-EPA) Dr. Hughes, Robert M. (10% Non-EPA)</p> <p>NHEERL</p>	<p>Improvement of Methods to Assess Regional Fish Tissue Mercury Contamination</p>
S08M M0068	<p>(1) Competitive Metagenomic DNA Hybridization Identifies Host-Specific Microbial Genetic Markers in Cow Fecal Samples</p> <p>(2) Identification of Bacterial DNA Markers for the Detection of Human Fecal Pollution in Water</p>	<p>Dr. Shanks, Orin C. (60%) Dr. Santo Domingo, Jorge W. (20%) Dr. Kelty, Catherine A. (11%) Dr. Graham, James E. (5% Non-EPA) Dr. Lu, Jingrang (2% Non-EPA) Dr. Lamendella, Regina (2% Non-EPA)</p> <p>NRMRL</p>	<p>Scientific and Technical Achievement in the Field of Water Quality Monitoring and Indicators of Fecal Pollution</p>

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

Nominations Recommended for a Level II Award (Cont'd) -- Total of 16

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08OR0080	<p>(1) Characterizing residue transfer efficiencies using a fluorescent imaging technique</p> <p>(2) Measuring potential dermal transfer of a pesticide to children in a daycare center</p> <p>(3) Comparing surface residue transfer efficiencies to hands using polar and non-polar fluorescent tracers</p>	<p>Dr. Cohen Hubal, Elaine A. (37%) Dr. Egeghy, Peter P. (7%) Dr. Suggs, Jack C. (4%) Dr. Leovic, Kelly W. (3%) Dr. Nishioka, Marcia G. (24% Non-EPA) Dr. Akland, Gerald G. (14% Non-EPA) Dr. Ivancic, William A. (10% Non-EPA) Dr. Morara, M. (1% Non-EPA)</p> <p>NCCT</p>	<p>Research That Improves Our Understanding of Children's Exposure to Pesticides in the Residential Environment</p>
S08RA0087	<p>The importance of the Montreal Protocol in protecting climate</p>	<p>Dr. Andersen, Stephen O. (50%) Dr. Velders, Guus J.M. (20% Non-EPA) Dr. Daniel, John S. (10% Non-EPA) Dr. Fahey, David W. (10% Non-EPA) Dr. McFarland, Mack (10% Non-EPA)</p> <p>OAR</p>	<p>Synthesis and Communication of Stratospheric Ozone and Climate Science</p>
S08RA0092	<p>Drowning in disinfection byproducts? Assessing swimming pool water</p>	<p>Dr. Richardson, Susan D. (25%) Dr. DeMarini, David M. (25%) Dr. Zwiener, Christian (25% Non-EPA) Dr. Grummt, Tamara (10% Non-EPA) Dr. Glauner, Thomas (10% Non-EPA) Dr. Frimmel, Fritz H. (5% Non-EPA)</p> <p>NERL</p>	<p>Summarizing the Water Chemistry and Health Effects Associated with Disinfection By-Product Exposure Via Swimming</p>
S0RA0100	<p>Occurrence, genotoxicity, and carcinogenicity of regulated and emerging disinfection by-products in drinking water: A review and roadmap for research</p>	<p>Dr. Richardson, Susan D. (30%) Dr. DeMarini, David M. (30%) Dr. Schoney, Rita (10%) Dr. Wagner, Elizabeth D. (15% Non-EPA) Dr. Plewa, Michael J. (15% Non-EPA)</p> <p>NERL</p>	<p>Creating a Roadmap for Research on Regulated, and Emerging, Unregulated, Disinfection By-Products in Drinking Water</p>
<p><i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i></p>			

Nominations Recommended for a Level II Award (Cont'd) -- Total of 16

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08RA 0097	The Effectiveness of Voluntary Environmental Programs--A Policy at a Crossroads?	Dr. Koehler, Dinah (100%) NCER	Greatly Increasing the Agency's Understanding of the Effectiveness of Voluntary Environmental Programs
<p align="center"><i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i></p>			

Nominations Recommended for a Level III Award -- Total of 30

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08ER 0011	Depth-specific patterns in benthic-planktonic food web relationships in Lake Superior	Dr. Sierszen, Michael E. (60%) Dr. Peterson, Gregory S. (20%) Dr. Scharold, Jill V. (20%) NHEERL	Refining Depth-Specific Food Web Relationships in the Great Lakes
S08ER 0014	Juvenile coho salmon growth and survival across stream network seasonal habitats	Dr. Ebersole, Joseph L. (45%) Dr. Wigington, Jr., Parker J. (15%) Dr. Baker, Joan P. (15%) Dr. Church, M. Robbins (5%) Dr. Cairns, Michael A. (3%) Dr. Compton, Jana E. (3%) Dr. Leibowitz, Scott G. (3%) Dr. Miller, Bruce A. (5% Non-EPA) Dr. Hansen, Bruce P. (3% Non-EPA) Dr. LaVigne, Henry R. (3% Non-EPA) NHEERL	Innovative Research on the Value of Seasonal Habitats and Intermittent Streams to Coho Salmon Populations
S08ER 0020	Characterizing seiche and tide-driven daily water level fluctuations affecting coastal ecosystems of the Great Lakes	Dr. Trebitz, Anett S. (100%) NHEERL	Providing Data and Analysis Tools Enabling Characterization of Seiche and Tide as Hydrologic Drivers for Coastal Ecosystems

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

Nominations Recommended for Level III Award (Cont'd)-- Total of 30

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
<p>S08ER0023</p> <p>Linked with</p> <p>S08TF0130</p>	<p>The role of nitrogen in chromophoric and fluorescent dissolved organic matter formation</p> <p>Production of Hydrated Electrons from Photoionization of Dissolved Organic Matter in Natural Waters</p>	<p>Dr. Zepp, Richard G. (50%) Dr. Biers, Erin J. (40% Non-EPA) Dr. Moran, Mary Ann (10% Non-EPA)</p> <p>NERL</p> <p>Dr. Zepp, Richard G. (50%) Dr. Wang, Wei (20% Non-EPA) Dr. Zafiriou, Oliver C. (15% Non-EPA) Dr. Blough, Neil V. (10% Non-EPA) Dr. Chan, Iu-Yam (5% Non-EPA)</p> <p>NERL</p>	<p>Creative Elucidation of the Role of Nitrogen in the Production of Colored Organic Substances in Coastal Ecosystems</p> <p>Creative Experimental Techniques Used to Evaluate Pollutant Reductions by Photoionization of Natural Organic Matter</p>
<p>S08HE0024</p>	<p>Pesticide Measurements from the First National Environmental Health Survey of Child Care Centers Using a Multi-Residue GC/MS Analysis Method</p>	<p>Dr. Tolve, Nicolle S. (35%) Dr. Jones, Paul A. (20%) Dr. Croghan, Carry W. (10%) Dr. Fortmann, Roy C. (5%) Dr. Nishioka, Marcia G. (10% Non-EPA) Dr. Zhou, Joey Y. (5% Non-EPA) Dr. Fraser, Alexa (5% Non-EPA) Dr. Cave, Carol (5% Non-EPA) Dr. Friedman, Warren (5% Non-EPA)</p> <p>NERL</p>	<p>Improving Our Understanding of Pesticides in Children's Everyday Environments</p>

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

Nominations Recommended for a Level III Award (Cont'd) -- Total of 30			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08HE0027	(1) Computational pharmacokinetics during developmental windows of susceptibility (2) Predicting Age-Appropriate Pharmacokinetics of Six Volatile Organic Compounds in the Rat Utilizing Physiologically Based Pharmacokinetic Modeling	Dr. Barton, Hugh A. (40%) Dr. Rodriguez, Chester E. (30%) Dr. Lipscomb, John C. (10%) Dr. Mahle, Deirdre A. (10% Non-EPA) Dr. Gearhart, Jeff M. (4% Non-EPA) Dr. Mattie, David R. (4% Non-EPA) Dr. Cook, Robert S. (2% Non-EPA) NCCT	Characterizing the Impacts of Age-Specific Dosimetry on Risk Assessment
S08HE0030	(1) Dimethylthioarsinic anhydride: A standard for arsenic speciation (2) Comparison of a Chemical and Enzymatic Extraction of Arsenic from Rice and an Assessment of the Arsenic Absorption from Contaminated Water by Cooked Rice	Dr. Creed, Patricia A. (22%) Dr. Creed, John T. (21%) Dr. Schwegel, Carol A. (8%) Dr. Fricke, Michael W. (17% Non-EPA) Dr. Ackerman, Amanda H. (14% Non-EPA) Dr. Parks, Amy N. (4% Non-EPA) Dr. Heitkemper, Douglas T. (4% Non-EPA) Dr. Shockey, Nohora Vela (4% Non-EPA) Dr. Zeller, Matthias (2% Non-EPA) Dr. Cullen, William R. (2% Non-EPA) Dr. Witkowski, Mark (2% Non-EPA) NERL	The Speciation of Arsenic in Uncooked and Cooked Rice to Support Exposure Assessment in Endemic Areas
S08HE0031	Elevated PBDE Levels In Pet Cats: Sentinels for Humans?	Dr. Dye, Janice A. (50%) Dr. Birnbaum, Linda S. (15%) Dr. Venier, Marta (20% Non-EPA) Dr. Zhu, Lingyan (5% Non-EPA) Dr. Hites, Ronald A. (5% Non-EPA) Dr. Ward, Cynthia R. (5% Non-EPA) NHEERL	Pet Cats as Sentinels to Assess Health Risk Related to Exposure to Brominated Flame Retardants
<i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i>			

Nominations Recommended for a Level III Award (Cont'd) -- Total of 30			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08HE 0033	(1) Tissue dosimetry, metabolism and excretion of pentavalent and trivalent monomethylated arsenic in mice after oral administration (2) Tissue dosimetry, metabolism and excretion of pentavalent and trivalent monomethylated arsenic in mice after oral administration	Dr. Hughes, Michael F. (30%) Dr. Adair, Blakely (20%) Dr. Kenyon, Elaina M. (10%) Dr. Thomas, David J. (5%) Dr. Creed, John T. (5%) Dr. Devesa, Vicenta (20% Non-EPA) Dr. Styblo, Miroslav (5% Non-EPA) Dr. Conklin, Sean (5% Non-EPA) NHEERL	Research in Determining the Disposition of Pentavalent and Trivalent Methylated Arsenicals in a Rodent Model
S08HE 0035	Pesticide loadings of select pyrethroid and organophosphate pesticides in urban public housing	Dr. Julien, Rhona (60%) Dr. Adamkiewicz, Gary (20% Non-EPA) Dr. Levy, Jonathan (10% Non-EPA) Dr. Spengler, John (5% Non-EPA) Dr. Bennett, Deborah (3% Non-EPA) Dr. Nishioka, Marcia (2% Non-EPA) Region 1	Research Examining Possible Linkages between Exposures to Indoor Contaminants and Adverse Health Outcomes
S08HE 0042	Modeling population exposures to outdoor sources of hazardous air pollutants	Dr. Ozkaynak, Haluk (50%) Dr. Palma, Ted (30%) Dr. Thurman, James (15%) Dr. Touma, Jawad S. (5%) NERL	Demonstrating the Importance of Exposure-Modeling Methods in Conducting Air Pollution Health Research
<p><i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i></p>			

Nominations Recommended for a Level III Award (Cont'd) -- Total of 30			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08IRO049	Impact of Underestimating the Effects of Cold Temperature on Motor Vehicle Start Emissions of Air Toxics in the United States	Dr. Cook, James Richard (20%) Dr. Fernandez, Antonio M. (10%) Dr. Brzezinski, David (10%) Dr. Thurman, James A. (10%) Dr. Strum, Madeleine L. (10%) Dr. Bailey, Chad R. (5%) Dr. Scarbro, Carl A. (5%) Dr. Baldauf, Richard W. (5%) Dr. Touma, Jawad S. (15% Non-EPA) Dr. Ensley, Darrell B. (10% Non-EPA) NVFEL	Assessment of Impacts of an Uncharacterized Source of Vehicle Emissions, Leading to New Emission Standards
S08M0053	Open burning of agricultural biomass: Physical and chemical properties of particle-phase emissions	Dr. Hays, Michael D. (50%) Dr. Geron, Christopher D. (10%) Dr. Gullett, Brian K. (10%) Dr. Fine, Philip M. (20% Non-EPA) Dr. Kleeman, Michael J. (10% Non-EPA) NRMRL	The Chemical and Physical Characterization of PM2.5 Emitted from Agricultural Burning
S08M0056	Interlaboratory evaluation of "Hyaella azteca" and "Chironomus tentans" short-term and long-term sediment toxicity tests	Dr. Norberg-King, Teresa J. (40%) Dr. Mount, David (10%) Dr. Ireland, Scott (5%) Dr. Sibley, Paul K. (15% Non-EPA) Dr. Ingersoll, Christopher (15% Non-EPA) Dr. Kemble, Nile (5% Non-EPA) Dr. Burton, G. Allen (5% Non-EPA) Dr. Rowland, Carrie (5% Non-EPA) NHEERL	Advancing the Use of Biological Test Methods as Monitoring Tools for Assessing Contaminated Sediments
<p><i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i></p>			

Nominations Recommended for a Level III Award (Cont'd) -- Total of 30			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08M M0057	(1) Effect of Single Wide Tires and Trailer Aerodynamics on Fuel Economy and NO _x Emissions of Class 8 Line-Haul Tractor-Trailers (2) Fuel Economy Improvements and NO _x Reduction By Reduction of Parasitic Losses: Effect of Engine Design	Dr. Bachman, L. Joseph (48%) Dr. Bynum, Cheryl (15%) Dr. Erb, Anthony (15%) Dr. Shoffner, Brent (10% Non-EPA) Dr. Ensfield, Carl (7% Non-EPA) Dr. De LaFuente, Hector Non-EPA) OAR	Providing Scientific Documentation of Emissions-Reduction Technologies That Pay for Themselves through Increased Fuel Efficiency
S08M M0070	(1) A null model for the expected macroinvertebrate assemblage in streams (2) Selecting discriminant function models for predicting the expected richness of aquatic macroinvertebrates (3) Exclusion of rare taxa affects performance of the O/E index in bioassessments	Dr. Van Sickle, John (75%) Dr. Larsen, D. P. (7%) Dr. Hawkins, C. P. (10% Non-EPA) Dr. Herlihy, A. T. (4% Non-EPA) Dr. Duff, D. D. (4% Non-EPA) NHEERL	Developing New Methods to Build and Evaluate Bioassessment Models of Species Assemblages in the Nation's Surface Waters
S08M M0073	Opportunistic Aspergillus Pathogens Measured in home and hospital tap water by Quantitative PCR (QPCR) TIMS # 182056	Dr. Vesper, Stephen J. (60%) Dr. Haugland, Richard A. (10%) Dr. Rogers, Melissa E. (20% Non-EPA) Dr. Neely, Alice N. (10% Non-EPA) NERL	Demonstrating a Rapid Method to Protect People from Exposure to Pathogenic Fungi in Drinking Water
S08OR 0074	Occurrence of Antibiotic-Resistant Urpathogenic "Escherichia coli" Clonal Group A in Wastewater Effluents	Dr. Boczek, Laura A. (50%) Dr. Rice, Eugene W. (35%) Dr. Johnson, James R. (10% Non-EPA) Dr. Johnston, Brian (5% Non-EPA) NRMRL	Research Showing the Significance of Antibiotic-Resistant Bacteria in Wastewater, in Relation to Public Health
<p><i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i></p>			

Nominations Recommended for a Level III Award (Cont'd) -- Total of 30			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08OR 0079	Characterization of Air Emissions and Residual Ash from Open Burning of Electronic Wastes during Simulated Rudimentary Recycling Operations	Dr. Gullett, Brian K. (40%) Dr. Linak, William P. (40%) Dr. Gatica, Staci (5%) Dr. Wasson, Shirley J. (5%) Dr. Touati, Abderrahmane (5% Non-EPA) Dr. King, Charles J. (5% Non-EPA) NRMRL	Determining Emissions of Hazardous Substances from Rudimentary Electronic Waste Recycling Methods
S08OR 0083	Impact of Test Cycle and Biodiesel Concentration on Emissions	Dr. Sze, Chien (40%) Dr. Sobotowski, Rafal A. (20%) Dr. Whinihan, Joan K. (20%) Dr. Olson, Brian A. (10%) Dr. Schenk, Charles R. (10%) NVFEL	Enhancing the Understanding of Biodiesel Impact on Emissions and Developing New Correlation Factors to Predict NOx Emissions
S08OR 0086	(1) A Probabilistic Arsenic Exposure Assessment for Children Who Contact Chromated Copper Arsenate (CCA)-Treated Playsets and Decks, Part 1: Model Methodology, Variability Results, and Model Evaluation (2) A Probabilistic Arsenic Exposure Assessment for Children Who Contact Chromated Copper Arsenate (CCA)-Treated Playsets and Decks, Part 2: Sensitivity and Uncertainty Analyses	Dr. Zartarian, Valerie (30%) Dr. Xue, Jianping (30%) Dr. Ozkaynak, Haluk (20%) Dr. Dang, Winston (5%) Dr. Smith, Luther (5% Non-EPA) Dr. Glen, Graham (5% Non-EPA) Dr. Stallings, Casson (5% Non-EPA) NERL	Probabilistic Exposure Modeling Used in EPA's Risk Assessment of Children Contacting CCA-Treated Playsets and Decks
S08RA 0088	Critical Analysis of the Mathematical Relationships and Comprehensiveness of Life Cycle Impact Assessment Approaches	Dr. Bare, Jane C. (70%) Dr. Gloria, Thomas P. (30% Non-EPA) NRMRL	Providing LCIA Analysis and Developing Mathematical Relationships of Midpoint, Endpoint, Damage and Areas of Protection
<p><i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i></p>			

Nominations Recommended for a Level III Award (Cont'd) -- Total of 30			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08RA0091	A review of the mutagenicity and rodent carcinogenicity of ambient air	Dr. Claxton, Larry D. (70%) Dr. Woodall, Jr., George M (30%) NHEERL	Providing a Scholarly Review and Analysis of the Carcinogenicity and Mutagenicity of Urban Air
S08RA0106	Toxicoproteomics and its application to human health risk assessment	Dr. Ge, Yue (70%) Dr. Preston, R. Julian (20%) Dr. Owen, Russell D. (10%) NHEERL	Reviewing the Role of Toxicoproteomics in Assessing Key Events in the Risk Assessment Process
S08RA0107	Interactive effects of solar UV radiation and climate change on biogeochemical cycling	Dr. Zepp, Richard G. (50%) Dr. Paul, Nigel D. (17% Non-EPA) Dr. Sulzberger, Barbara (17% Non-EPA) Dr. Erickson, David J. (16% Non-EPA) NERL	Innovative Assessment of Current Research on the Effects of Ozone and Climate Changes on Biogeochemical Cycles
S08RM0109	Enhanced Corrosion-Based Pd/Mg Bimetallic Systems for Dechlorination of PCBs	Dr. Al-Abed, Souhail (50%) Dr. Agarwal, Shirish (40% Non-EPA) Dr. Dionysiou, Dionysios (10% Non-EPA) NRMRL	Developing Bimetallic Particles for Reductive Dechlorination of Calcitrant Organic Contaminants in Sediments
S08TF0120	Development and analysis of air quality modeling simulations for hazardous air pollutants	Dr. Luecken, Deborah (50%) Dr. Hutzell, William (40%) Dr. Gipson, Gerald (10%) NERL	Demonstrating the Capability to Predict Concentrations of Hazardous Air Pollutant Concentrations in the U.S.
S08TF0121	Use of GIS and ancillary variables to predict volatile organic compound and nitrogen dioxide levels at unmonitored locations	Dr. Mukerjee, Shaibal (25%) Dr. Gonzales, Melissa (15%) Dr. Neas, Lucas (10%) Dr. Norris, Gary (10%) Dr. Ozkaynak, Haluk (5%) Dr. Smith, Luther (20% Non-EPA) Dr. Stallings, Casson (15% Non-EPA) NERL	Contributions in Monitoring and Modeling Traffic and Urban Air Pollution for Children's Health Studies
*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination			

Nominations Recommended for a Level III Award (Cont'd) -- Total of 30

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08TF0 128	(1) Analysis of Perfluorinated Carboxylic Acids in Soils: Detection and Quantitation Issues at Low Concentrations (2) Analysis of Perfluorinated Carboxylic Acids in Soils II: Optimization of Chromatography and Extraction	Dr. Washington, John W. (80%) Mrs. Ellington, J. Jackson (12%) Dr. Henderson, W. Matthew (3%) Dr. Jenkins, Thomas M. (3% Non-EPA) Dr. Evans, John J. (2% Non-EPA) NERL	Developing Methods That Establish the Essential Basis for Fluorotelomer Research That is a High Priority for EPA
S08RA 0095	Assessing Susceptibility from Early-Life Exposure to Carcinogens	Dr. Barton, Hugh A. (20%) Dr. Flowers, Lynn (20%) Dr. Setzer, Woodrow (20%) Dr. Woodruff, Tracey (20%) Dr. Cogliano, V. James (10%) Dr. Valcovic, Larry (10%) NCEA	Analysis of the Risk Assessment Implications of Early-Life Exposure to Carcinogens Considering Mode of Action

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

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 43

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08CS0002	XAS and XPS Characterization of Mercury Binding on Brominated Activated Carbon	Dr. Hutson, Nick (40%) Dr. Scheckel, Kirk (30%) Dr. Attwood, Brian (30% Non EPA) NRMRL	Studies That Provide a Fundamental Understanding of the Binding of Mercury to Brominated Activated Carbon
S08CS0003	Iron Optimization for Fenton-Driven Oxidation of MTBE-Spent Granular Activated Carbon	Dr. Huling, Scott G. (80%) Dr. Jones, P. Kyle (10%) Dr. Lee, Tony (10%) NRMRL	Process Diagnostics and Treatment Optimization in Chemical Regeneration of Activated Carbon
S08CS0004	Optimizing Arsenic Removal During Iron Removal: Theoretical and Practical Considerations	Dr. Lytle, Darren A. (70%) Dr. Sorg, Thomas (25%) Dr. Snoeyink, Vernon (5% Non-EPA) NRMRL	The Optimization of Arsenic Removal from Drinking Water During Iron Removal
S08ER0019	An Approach to Predict Risks to Wildlife Populations from Mercury and Other Stressors	Dr. Nacci, Diane (20%) Dr. Pelletier, Marguerite (10%) Dr. Bennett, Rick (10%) Dr. Gear, Jason (10%) Dr. Kuhn, Anne (10%) Dr. Walters, Steven (10%) Dr. Lake, Jim (5%) Dr. Nichols, John (5%) Dr. Haebler, Romona (5%) Dr. Nicholson, Matthew (5%) Dr. Munns, Jr., Wayne R. (5%) Dr. Copeland, Jane (5% Non-EPA) NHEERL	An Integrative, Transparent Process Developed to Address the Need to Assess Complex, Population-Level Eco Risks

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

Nominations Recommended for Honorable Mention (No Monetary Award) --- Total of 43

Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08CS0006	(1) Revisiting Nucleophilic Substitution Reactions: Microwave-Assisted Synthesis of Azides, Thiocyanates, and Sulfones in an Aqueous Medium (2) Aqueous N-Heterocyclization of Primary Amines and Hydrazines with Dihalides: Microwave-Assisted Syntheses of N-Azacycloalkanes, Isoindole, Pyrazole, Pyrazolidine, and Phthalazine Derivatives	Dr. Varma, Rajender S. (50%) Dr. Ju, Yuhong (35% Non-EPA) Dr. Kumar, Dalip (15% Non-EPA)	Exceptional Technical Achievement in Developing a Microwave Technology for Greener Chemical Synthesis in Water
Linked with	(3) Clean Chemical Synthesis in Water	NRMRL	
S08EF0008	(1) Solvent-free Facile Synthesis of Novel Alpha-Tosyloxy Beta-Keto Sulfones Using [Hydroxy(tosyloxy)iodo]benzene (2) Greener Organic Syntheses Under Non-Traditional Conditions (3) 'Greener' Chemical Synthetic Processes Using Enzymatic, Mechanochemical Mixing or Microwave- and Ultrasound Irradiation	Dr. Varma, Rajender S. (65%) Dr. Kumar, Dalip (35% Non-EPA)	Exceptional Technical Achievement in Advancing Emerging Alternative Technologies for Greener Chemical Processing
&		NRMRL	
S08OR0084	(1) Green Approach to Bulk and Template-free Synthesis of Thermally Stable Reduced Polyaniline Nanofibers for Capacitor Applications (2) Nanosized Magnesium Oxide as Catalyst for the Rapid and Green Synthesis of Substituted 2-Amino-2-Chromenes	Dr. Varma, Rajender S. (50%) Dr. Kumar, Dalip (35% Non-EPA) Dr. Nadagouda, Mallikarjuna N. (15% Non-EPA)	Exceptional Technical Achievement in Green Synthesis of Nanofibers for Capacitor Applications and Chemical Catalysis
&		NRMRL	
S08TF0127	(1) Preparation of Novel Metallic and Bimetallic Cross-Linked Poly (vinyl alcohol) Nanocomposites Under Microwave Irradiation (2) Microwave-Assisted Synthesis of Crosslinked Poly (vinyl alcohol) Nanocomposites Comprising Single-Walled Carbon Nanotubes, Multi-Walled Carbon Nanotubes, and Buckminsterfullerene	Dr. Varma, Rajender S. (50%) Dr. Nadagouda, Mallikarjuna N. (50% Non-EPA)	Exceptional Technical Achievement in the Synthesis of Green Nanocomposites Comprising Nanometals and Carbon Nanotubes
		NRMRL	

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 43			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08HE 0028	The cyanobacterial toxin, cylindrospermopsin, induces fetal toxicity in the mouse after exposure late in gestation	Dr. Chernoff, Neil (48%) Dr. Rogers, Ellen H. (47%) Dr. Zehr, R. Daniel (1% Non-EPA) Dr. Gage, Michael I. (1% Non-EPA) Dr. Humpage, Andrew R. (1% Non-EPA) Dr. Falconer, Ian R. (1% Non-EPA) Dr. Marr, Melissa C. (1% Non-EPA) NHEERL	Research on the Unusual Developmental/Maternal Toxicity of a Hazardous, Environmentally Relevant Cyanobacterial Toxin
S08HE 0036	The Spontaneously Hypertensive Rat: An Experimental Model of Sulfur Dioxide-Induced Airways Disease	Dr. Kodavanti, Urmila P. (25%) Dr. Schladweiler, Mette C. (10%) Dr. Ledbetter, Allen D. (10%) Dr. Richards, Judy (5%) Dr. Jaskot, Richard H. (5%) Dr. Karoly, Edward (5%) Dr. Costa, Daniel L. (5%) Dr. Evansky, Paul (5%) Dr. Pinkerton, Kent E. (5% Non-EPA) Dr. Gilmour, Peter S. (5% Non-EPA) Dr. Thomas, Ronald (5% Non-EPA) Dr. Huang, Yuh-Chin T. (5% Non-EPA) Dr. Ortuno, Roselia Villalobos (5% Non-EPA) Dr. Suffia, Marie (5% Non-EPA) NHEERL	Development of an Experimental Animal Model of Human Chronic Pulmonary Disease
S08HE 0039	Using IFN- γ as a Biomarker for Detecting Exposure to Viral Pathogens	Dr. Li, Lu (80%) Dr. Dufour, Alfred P. (20%) NERL	Using IFN-Gamma as a Biomarker to Detect Exposure to Viral Pathogens
<i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i>			

Nominations Recommended for Honorable Mention (No Monetary Award) -- Total of 43			
Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08HE0043	Improved Estimates on Cancer Site-Specific Risks for A-Bomb Survivors	Dr. Pawel, David J. (55%) Dr. Preston, Dale L. (20% Non-EPA) Dr. Pierce, Don (20% Non-EPA) Dr. Cologne, John (5% Non-EPA) OAR	An Outstanding Paper of Radiation Risk Estimates for Specific Types of Cancer
S08HE0044	Exposure reconstruction for reducing uncertainty in risk assessment: Example using MTBE biomarkers and a simple pharmacokinetic model	Dr. Pleil, Joachim D. (70%) Dr. Prah, James D. (10%) Dr. Kim, David (10% Non-EPA) Dr. Rappaport, Stephen (10% Non-EPA) NERL	Innovative Use of Human Biomarker Measurements in Exposure Reconstruction with Classical Pharmacokinetic Modeling
S08HE0046	Estimating Risk from Ambient Concentrations of Acrolein across the United States	Dr. Woodruff, Tracey J. (25%) Dr. Wells, Ellen M. (25%) Dr. Holt, Elizabeth W. (20%) Dr. Axelrad, Daniel A. (20%) Dr. Burgin, Deborah E. (10%) OA	Developing and Demonstrating Methods for Noncancer Risk Assessment of Acrolein
S08IRO047	(1) Incorporating results of avian toxicity tests into a model of annual reproductive success (2) Estimating pesticide effects on fecundity rates of wild birds using current laboratory reproduction tests (3) On the use of published demographic data for population-level risk assessment in birds	Dr. Bennett, Richard S. (50%) Dr. Etterson, Matthew A. (50%) NHEERL	Developing a Modeling Approach for Improving Estimates of Contaminant Effects on Avian Reproductive Success
<p><i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i></p>			

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Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08IRO048	(1) Economics and Ecological Risk Assessment: Applications to Watershed Management. Chapter 1. Introduction (2) Chapter 9. Conceptual Approach for Integrated Watershed Management (3) Chapter 16. Conclusions	Dr. Bruins, Randall J. F. (50%) Dr. Heberling, Matthew T. (45%) Dr. Maddock, Tara A. (5%) NERL	Research That Demonstrates How Ecology and Economics Can Be Integrated to Improve the Management of Watersheds
S08IRO050	(1) Quantification of fluorotelomer-based chemicals in mammalian matrices by monitoring perfluoroalkyl chain fragments with GC/MS (2) Perfluorooctanoic Acid and Perfluorononanoic Acid in Fetal and Neonatal Mice Following in Utero Exposure to 8-2 Fluorotelomer Alcohol	Dr. Henderson, W. Matthew (80%) Dr. Weber, Eric J. (5%) Dr. Duirk, Stephen E. (5%) Dr. Washington, John W. (5%) Dr. Smith, Mary Alice (5% Non-EPA) NERL	Developing Methods to Enhance the Analysis of Perfluorinated Chemicals in Mammalian Systems
S08IRO051	Towards quantitative uncertainty assessment for cancer risks: central estimates and probability distributions of risk in dose-response modeling	Dr. Kopylev, Leonid (34%) Dr. Chen, Chao (33%) Dr. White, Paul (33%) NCEA	Developing a Statistical Methodology That Provides Probability Distributions and Stable Central Estimates of Risk
S08IRO052	In Vitro Metabolism of the Fungicide and Environmental Contaminant trans-bromuconazole and Implications for Risk Assessment	Dr. Mazur, Christopher S. (22%) Dr. Kenneke, John F. (22%) Dr. Tebes-Stevens, Caroline (22%) Dr. Lipscomb, John C. (22%) Dr. Okino, Miles (12%) NERL	Providing Critical Metabolism Data Needed for Risk Assessment of Conazole Compounds

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Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08M M0058	(1) Quantification and Associated Variability of Induced Vitellogenin Gene Transcripts in Fathead Minnow ("Pimephales promelas") by Quantitative Real-Time Polymerase Chain Reaction Assay (2) A Quantitative Real-Time Polymerase Chain Reaction Method for the Analysis of Vitellogenin Transcripts in Model and Nonmodel Fish Species	Dr. Biales, Adam (35%) Dr. Bencic, David C. (25%) Dr. Lattier, David L. (15%) Dr. Flick, Robert W. (15%) Dr. Lazorchak, Jim L. (10%) NERL	Work Which Aided States and US EPA Regional Laboratories in Estrogenic Exposure Assessments of Aquatic Ecosystems
S08M M0063	Chemical markers of human waste contamination: Analysis of urobilin and pharmaceuticals in source waters	Dr. Jones-Lepp, Tammy L. (100%) NERL	Providing Public Authorities Analytical Tools to Accurately Measure Markers of Human Sewage in the Nation's Waters
S08M M0064	Characterization of Fine Particle and Gaseous Emissions during School Bus Idling	Dr. Kinsey, John S. (55%) Dr. Dong, Yuanji (25% Non-EPA) Dr. Williams, David C. (15% Non-EPA) Dr. Logan, Russell (5% Non-EPA) NRMRL	The First Study to Quantify the Benefits of Diesel School Bus Anti-Idling
S08M M0069	A Diurnal Reflectance Model Using Grass: Surface-Subsurface Interaction and Inversion	Dr. Shirazi, Mostafa A. (80%) Dr. Reporter, Minocher (20% Non-EPA) NHEERL	Developing a New Method of Remote Sensing Applicable to Integrated Agronomy, Soil, and Landscape Research
S08OR 0076	Reference Values for Exposure to PAH Contaminants: Comparison of Fish from Ohio and Mid-Atlantic Streams	Dr. Cormier, Susan M. (50%) Dr. Lin, Luan-Ho C. (50%) NCEA	Advancing the Application of Environmental Epidemiological Approaches for Environmental Protection
<i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i>			

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Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08OR 0077	(1) The development of a matrix-assisted laser desorption/ionization mass spectrometry-based method for the protein fingerprinting and identification of "Aeromonas" species using whole cells (2) Differentiation of "Aeromonas" Isolated from Drinking Water Distribution Systems Using Matrix-Assisted Laser Desorption/Ionization-Mass Spectrometry	Dr. Donohue, Maura J. (25%) Dr. Shoemaker, Jody A. (20%) Dr. Rodgers, Mark R. (10%) Dr. Pfaller, Stacy L. (10%) Dr. Best, Jennifer A. (10%) Dr. Kostich, Mitchell S. (10%) Dr. Smallwood, Anthony Wayne (15% Non-EPA) NERL	Development and Application of a MALDI-MS Technique to Identify and Speciate "Aeromonas" Isolates in Drinking Water
S08OR 0081	Emissions from Cooking Microwave Popcorn	Dr. Rosati, Jacky A. (60%) Dr. Krebs, Kenneth A. (35%) Dr. Liu, Xiaoyu (5% Non-EPA) NHSRC	Innovative Research into the Chemicals Emitted While Cooking Microwave Popcorn
S08OR 0082	Comparison of (85)Kr and (3)H Apparent Ground-Water Ages for Source Water Vulnerability in the Collyer River Catchment, Maine	Dr. Sidle, William C. (100%) NRMRL	Field Development and Application of (85)Kr to Replace Tritium as a Practical Age-Dating Tool to Map Watersheds
S08OR 0085	A graphical systems model to facilitate hypothesis-driven ecotoxicogenomics research on the teleost brain-pituitary-gonadal axis	Dr. Villeneuve, Daniel L. (45%) Dr. Ankley, Gerald T. (10%) Dr. Knoebl, Iris (5%) Dr. Kahl, Michael D. (5%) Dr. Jensen, Kathleen M. (5%) Dr. Makynen, Elizabeth A. (5%) Dr. Durhan, Elizabeth J. (5%) Dr. Miracle, Ann L. (5% Non-EPA) Dr. Carter, Barbara J. (5% Non-EPA) Dr. Denslow, Nancy D. (5% Non-EPA) Dr. Larkin, Patrick (5% Non-EPA) NHEERL	Development of a Graphical Framework for Understanding and Predicting Impacts of Stressors on Fish Reproduction

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Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08RA 0089	Neurodegenerative Diseases: An Overview of Environmental Risk Factors	Dr. Brown, Rebecca C. (60%) Dr. Sonawane, Babasaheb R. (25%) Dr. Lockwood, Alan H. (15% Non-EPA) NCEA	An Outstanding Review of Environmental Risk Factors for Neurodegenerative Diseases and Recognition of Research Needs
S08RA 0096	Pharmaceuticals and personal care products in biosolids/sewage sludge: the interface between analytical chemistry and regulation	Dr. Jones-Lepp, Tammy L. (50%) Dr. Stevens, Rick (50%) NERL	Contributing to the Body of Knowledge Regarding Biosolids: Their Characterization and Regulatory Practices
S08RA 0094	Immunoassays and Other Bioanalytical Techniques: Chapter 1. Integrating Bioanalytical Capability in an Environmental Analytical Laboratory	Dr. Van Emon, Jeanette M. (60%) Dr. Chuang, Jane C. (25% Non-EPA) Dr. Trejo, Raquel M. (10% Non-EPA) Dr. Durnford, Joyce (5% Non-EPA) NERL	Development of a Reference Work Environmental on Immunochemical Techniques
S08RA 0099	Receptor modeling of ambient particulate matter data using positive matrix factorization: Review of existing methods	Dr. Reff, Adam (70%) Dr. Eberly, Shelly (20%) Dr. Bhave, Prakash (10% Non-EPA) NERL	Reviewing and Synthesizing Methods of Receptor Models Used in the Study of Air Pollution
S08RA 0101	Water Analysis: Emerging Contaminants and Current Issues	Dr. Richardson, Susan D. (100%) NERL	Providing a Critical Review on Analytical Methods and Measurements of Emerging Contaminants in Environmental Waters
S08RA 0103	Removing Esoteric Contaminants from Drinking Waters: Impacts of Treatment Implementation	Dr. Speth, Thomas F. (60%) Dr. Schock, Michael R. (40%) NRMRL	Exploring the Possible Unintended Consequences of Implementing Treatment Changes at a Drinking Water Utility
*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination			

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Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08RA 0105	Waterborne pathogens in urban watersheds	Dr. Arnone, Russell D. (50%) Dr. Walling, Joyce M. (50%) NRMRL	Their Contribution to the Study of Microbial Contaminants in Watersheds and the Field of Watershed Management
S08RA 0135	(1) In vitro-in vivo extrapolation of quantitative hepatic biotransformation data for fish. I. A review of methods, and strategies for incorporating intrinsic clearance estimates into chemical kinetic models (2) A compilation of vitro rate and affinity values for xenobiotic biotransformation in fish, measured under physiological conditions (3) In vitro-in vivo extrapolation of quantitative hepatic biotransformation data for fish. II. Modeled effects on chemical bioaccumulation	Dr. Nichols, John W. (55%) Dr. Fitzsimmons, Patrick N. (20%) Dr. Burkhard, Lawrence P. (10%) Dr. Lien, Gregory J. (5%) Dr. Schultz, Irvin R. (10% Non-EPA) NHEERL	Improved Prediction of Metabolism Impacts on Chemical Bioaccumulation in Fish
S08RM 0108	Partitioning, Desorption, and Dechlorination of a PCB Congener in Sediment Slurry Supernatants	Dr. Al-Abed, Souhail (70%) Dr. Fang, Yuanxiang (James) (30% Non-EPA) NRMRL	Revealing Relationships between Its Partitioning, Desorption, and Dechlorination of PCBs in Contaminated Sediments
S08RM 0112	Arsenic Release from Iron Rich Mineral Processing Waste: Influence of pH and Redox Potential	Dr. Al-Abed, Souhail (50%) Dr. Allen, Derrick (10%) Dr. Jegadeesan, Gautham (20% Non-EPA) Dr. Purandare, Jaydeep (20% Non-EPA) NRMRL	Highlighting the Effects of Geochemical Variables on the Leaching of Metals in Landfills and Disposal Sites
S08RM 0113	(1) Use of Granular Graphite for Electrolytic Dechlorination of Trichloroethylene (2) Modeling the Electrolytic Dechlorination of Trichloroethylene in a Granular Graphite-Packed Reactor	Dr. Al-Abed, Souhail (70%) Dr. Fang, Yuanxiang (James) (30% Non-EPA) NRMRL	First Use of Graphite Electrodes Successfully to Dechlorinate Toxic Chlorinated Solvents in Water and Soil
<i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i>			

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Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08SS0 115	Personal Values, Beliefs, and Ecological Risk Perception	Dr. Slimak, Michael W. (75%) Dr. Thomas, Dietz (25% Non-EPA) NCEA	Advancing Our Understanding of How Our Own Personal Views and Beliefs Affect Our Perception of Ecological Risk
S08TF0 117	Calculating Physical Properties Of Organic Compounds For Environmental Modeling From Molecular Structure	Dr. Hilal, Said (65%) Dr. Whiteside, Tad S. (15% Non-EPA) Dr. Saravananaraj, A. N. (10% Non-EPA) Dr. Carreira, L. A. (10% Non-EPA) NERL	Predicting Environmental Fate of Organic Compounds Using SPARC Property Estimations
S08TF0 122	Relative congener scaling of polychlorinated dibenzo-p-dioxins and dibenzofurans to estimate building fire contributions in air, surface wipes, and dust samples	Dr. Pleil, Joachim D. (60%) Dr. Lorber, Matthew N. (40%) NERL	Novel Variable Clustering and Multivariate Regression Analysis of Complex Environmental Dioxin Data from WTC
S08TF0 123	Modeling the effect of chlorine emissions on ozone levels over the eastern United States	Dr. Sarwar, Golam (75%) Bhave, Prakash (25%) NERL	Evaluating the Effects of Chlorine Emissions and Chemistry on Ozone in the Lower Atmosphere
S08TF0 125	Zero-Valent Iron Reactive Materials for Hazardous Waste and Inorganics Removal: Chapter 8. Utilization of Zero-valent Iron for Arsenic Removal from Groundwater and Wastewater	Dr. Su, Chunming (100%) NRMRL	Invited Review of the State-of-the-Art of Groundwater and Wastewater Arsenic Remediation
S08TF0 126	(1) Removal of added nitrate in cotton burr compost, mulch compost, and peal: Mechanisms and potential use for groundwater nitrate remediation (2) Removal of added nitrate in the single, binary, and ternary systems of cotton burr compost, zerovalent iron, and sediment: Implications for groundwater nitrate remediation using permeable reactive barriers	Dr. Su, Chunming (75%) Dr. Puls, Robert W. (25%) NRMRL	Systematic Research on Cost-Effectively and Efficiently Removing Groundwater Nitrate Using Agricultural By-Products
<i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i>			

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Nom.	Titles and Citations of Submitted Papers	Authors* and Nominating Organization	Suggested Citation from Nominating Organization
S08TF0 134	Formation of Pb(IV) Oxides in Chlorinated Water	Dr. Lytle, Darren A. (65%) Dr. Schock, Michael R. (35%) NRMRL	The Impact of Water Chemistry on the Transformation of Pb(II) to Pb(IV) in Chlorinated Water
<p><i>*Note: The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination</i></p>			

Key to Acronyms used in the above Tables

NCCT - National Center for Computational Toxicology
NCEA - National Center for Environmental Research
NERL - National Exposure Research Laboratory
NHEERL - National Health and Environmental Effects Laboratory
NHSRC - National Homeland Security Research Center
NRMRL - National Risk Management Research Laboratory
NVFEL - National Vehicle and Fuel Emissions Laboratory
OA - Office of the Administrator
OAR - Office of Air and Radiation
OPPT - Office of Pollution Prevention and Toxics
OSP - Office of Science Policy
OTAQ - Office of Transportation and Air Quality