



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D C 20460

JUN 18 2010

OFFICE OF THE ADMINISTRATOR
SCIENCE ADVISORY BOARD

SUBJECT: Transmittal of Science Advisory Board Report

FROM: Vanessa T. Vu 
Director, Science Advisory Board Staff Office (1400F)

TO: Karen Sheffer
EPA Headquarters Library Repository (3404T)

This is to advise you that the Science Advisory Board, Scientific and Technological Achievement Awards (STAA) Committee, issued a report numbered EPA-SAB-10-002, SAB Recommendations for EPA's FY2009 Scientific and technological achievement Awards (STAA), dated January 21, 2010.

Two copies of the report are attached and a third copy has been sent electronically to the attention of Ms. Jeannie Turner at turner.jeannie@epa.gov. The report is available in electronic format on the Science Advisory Board's Web site at <http://www.epa.gov/sab>.

If you have any questions regarding this report, please contact the Designated Federal Officer, Mr. Edward Hanlon directly at (202) 343-9946.

Attachments (2)



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

**OFFICE OF THE ADMINISTRATOR
SCIENCE ADVISORY BOARD**

January 21, 2010

EPA-SAB-10-002

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 FY2009 Scientific and Technological
Achievement Awards (STAA)**

Dear Administrator Jackson:

The EPA Science Advisory Board (SAB) is pleased to transmit for your consideration the SAB's recommendations for FY 2009 Scientific and Technological Achievement Awards (STAA). Each year since the program was established in 1980, the SAB has been asked by EPA's Office of Research and Development (ORD) to review EPA's nominated scientific papers and make recommendations for awards. We are glad to continue our participation on this important program.

This year, the SAB STAA Committee reviewed a total of 111 nominations comprised of 167 total papers in twelve science and technology categories. The SAB hereby recommends fifty-six nominations for monetary awards and another twenty-five deserving of honorable mention. Of the nominations recommended for monetary awards, three (3) were recommended for the highest award-- Level I, twenty-two (22) for Level II, and thirty-one (31) for Level III awards.

To facilitate the SAB review of future STAA nominations, the SAB recommends that the Agency evaluate the current administrative procedure for the STAA program to (a) strengthen the justification of the nominated papers as to their scientific contributions and relevance to EPA's mission; and (b) discourage the practice of submission of multiple nominations of papers involving the same EPA author(s) on similar topical areas.

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 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 2010 nominations.

Sincerely,

/Signed/

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

/Signed/

Dr. Taylor Eighmy, Chair
SAB 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. REVIEW PROCEDURE

EPA's Scientific and Technological Achievement Awards (STAA) was established in 1980 to recognize Agency's scientists and engineers who published their technical work in peer-reviewed literature. The STAA program is administered and managed by EPA's Office and Research Development (ORD). Each year, the EPA Science Advisory Board (SAB) has been asked to review EPA's nominated scientific papers and make recommendations for awards. In response to ORD's request, the SAB formed a new SAB STAA Committee to review and evaluate scientific and technological papers published in peer-reviewed journals by EPA authors and nominated for the FY2009 STAA program. The Committee was formed in accordance with the SAB process as described in the SAB 2002 publication, *Panel Formation process: Immediate Steps to Improve Policies and Procedures* (EPA-SAB-EC-COM-02-003).

In 2009, ORD provided 111 nominations for STAA awards. ORD grouped the nominations into twelve science and technology categories and screened them for conformance with EPA's *STAA Nomination Procedures and Guidelines*, which describes the award levels, eligibility criteria, and the criteria the SAB should use to evaluate the nominations for awards. The topical categories for nominations were: Control Systems & Technology (CS), Ecological Research (ER), Energy and the Environment (EE), Health Effects Research and Human Health Risk Assessment (HE), Homeland Security (HS), Industry and the Environment (IE), Integrated Risk Assessment (IR), Monitoring & Measurement Methods (MM), Review Articles (RA), Risk Management and Ecosystem Restoration (RM), Transport and Fate (TF), and Other Environmental Research (OR). The number of 2009 STAA nominations sorted by topic category were as follows:

| Topic | Number of Nominations |
|--|-----------------------|
| Control Systems and Technology | 2 |
| Ecological Research | 22 |
| Energy and the Environment | 2 |
| Health Effects Research and Human Health Risk Assessment | 16 |
| Homeland Security | 1 |
| Industry and the Environment | 3 |
| Integrated Risk Assessment | 3 |
| Monitoring and Measurement Methods | 19 |
| Other Environmental Research | 6 |
| Review Articles | 11 |
| Risk Management and Ecosystem Restoration | 7 |
| Transport and Fate | 19 |

The awards criteria are defined by the Agency as follow:

- 1) 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.

- 2) 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.
- 3) 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.
- 4) Honorable Mention - The Agency 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.

Committee members reviewed a set of nominations suited to his or her expertise, and filled out an evaluation form for each nomination. Each nomination was reviewed by at least two Committee members. Prior to the meeting, Committee members provided their individual initial ratings of the nominations. At a closed meeting on August 17-19, 2009 in Washington, DC, the Committee discussed each of the 111 nominations and reached consensus on the score achieved by each individual nomination. In some cases, additional reviewers reviewed the nominations to provide further insights in their evaluation. Due to topic similarities the Committee combined four nominations into two, and thus 109 total nominations were considered for STAA awards. For several cases where conflicts or potential conflicts of interest existed, Committee members recused themselves from the review and discussion process. The Committee considered the relative distribution of Level I, II, III, Honorable Mention, and not recommended for award assignments, and developed a consensus list of award recommendations. The Committee also discussed recommendations for improving the 2010 STAA nomination process. It should be noted that the SAB meeting was closed to the public to protect the personal privacy of the authors.

The Committee's draft report (without Appendix A which identifies the award recommendations) was submitted for the quality review and approval by the Chartered SAB via e-mail correspondence in November 2009.

2. AWARD RECOMMENDATIONS

The Committee recommended fifty-six nominations for 2009 STAA monetary awards and another twenty-five for honorable mention. Of the works recommended for monetary awards, three were recommended for Level I, twenty-two for Level II, and thirty-one for Level III. All nominations receiving a recommendation for a Level I, II or III award or an Honorable Mention are listed in Appendix A. The final ranking agreed to at the August 17-19, 2009 meeting was a consensus ranking of the Committee. The Table below summarizes the awards by year since 1999, including the recommendations for 2009.

TABLE
Comparison of Award Recommendations over Time

| Award Level | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Nominations Reviewed | 89 | 102 | 126 | 140 | 136 | 146 | 110 | 90 | 140 | 130 | 109 |
| Level I | 1 | 0 | 2 | 4 | 7 | 6 | 3 | 5 | 5 | 5 | 3 |
| Level II | 7 | 5 | 11 | 7 | 18 | 13 | 6 | 11 | 13 | 16 | 22 |
| Level III | 24 | 36 | 29 | 26 | 29 | 32 | 30 | 29 | 37 | 30 | 31 |
| Honorable Mention | 10 | 20 | 21 | 39 | 33 | 37 | 31 | 26 | 45 | 43 | 25 |
| Not Recommended | 47 | 41 | 63 | 64 | 49 | 58 | 40 | 19 | 40 | 36 | 28 |

3. ADMINISTRATIVE RECOMMENDATIONS

During the August 17-19, 2009 meeting, the Committee identified three aspects of the nomination process that might be improved in future years: a) as with the previous years, the need to assign a significant number of nominations to the “not recommended” category; b) the proper grouping of similar papers within a nomination and identification of topic categories for nominations; and c) the tracking of similar nominations over multiple years. The Committee then developed recommendations to address these areas for potential improvement. These observations are offered with the hope that the nomination process can continue to ensure STAA’s fidelity towards recognizing outstanding science.

The Committee observed that the single largest factor resulting in a “not recommended” categorization is the justification component that describes the value and the utility of the research and its relevance to EPA’s mission. The Committee noted that justifications frequently do not accurately describe the breadth and importance of submitted papers, nor do they clearly state the value of the work to the Agency’s mission. Another identified factor was that certain nominations were very narrowly focused and did not clearly identify their relevance to EPA’s mission even though they represented excellent science and were published in very high quality journals.

As noted in last year’s report to the Administrator, the Committee observed that it is increasingly common to receive a number of nominations of papers that have similar justifications, address themes and/or methods that are essentially the same, have the same or similar groups of authors, and support closely related conclusions. The current nomination form restricts each nomination to a maximum of three papers per nomination, and requires that the nomination be categorized within a specific topic. The Committee observed that some prolific researchers had several nominations containing three papers each, and all papers within these nominations were topically similar. However, these nominations were inappropriately categorized into different topic areas. It was often difficult for the Committee to discern significant differences in intellectual and scientific contributions between these nominations, and confusing for the Committee to find such papers spread among many categories. It was also difficult for the Committee members to identify similar papers that were nominated in previous years, since an index of previous nominations and awards was not immediately available to the Committee during the meeting.

The Committee also observed that last year’s SAB recommendations included a suggestion to limit the amount of supplemental materials to 100 pages or less. The Committee noted this recommendation was satisfactorily implemented within the 2009 STAA nominations and appreciated EPA’s efforts to address this suggestion.

In light of the above-noted observations, the Committee makes the following administrative recommendations to improve the nomination process:

1) Strengthen the justification of the nominated papers as to their scientific contributions and relevance to EPA's mission:

- Nominating and Approving officials should ensure that justification statements within the Nomination Form match the quality and impacts of submitted papers; and are precise, clear, unique, and emphatic in the impacts that the nominated work has on the Agency's mission. Nominating and Approving officials should also ensure that topic categories for nominations are appropriately identified.

2) Discourage the practice of submission of multiple nominations of papers involving the same EPA author(s) on similar topical areas:

- When more than one paper is nominated in a given year or within the previous five years involving the same EPA author(s) on a related subject, a clear statement must be provided in the justification statement of the Nomination Form that identifies these related papers, and explains how the contribution of each paper differs.
- The limitation to three papers per nomination should be dropped, and language should be inserted into the Nomination Form that encourages nomination of an appropriate number of papers that are thematically relevant. However, the authors should be encouraged to select their strongest contributions since the overall score of an otherwise outstanding paper can be negatively impacted by being coupled to a weaker submission.
- The Agency should develop an index of STAA papers that have been nominated during the previous five years. The index should be updated annually and provided to the SAB Staff Office when the Agency sends nominated papers to the SAB Staff Office. The Committee understands that this task is non-trivial, notes that this recommendation was made last year with a two-year implementation time line, and encourages progress towards this goal.

Appendix A - Nominations Recommended for Awards

| Nominations Recommended for a Level I Award -- Total of 3 | | |
|---|--|---|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09HE0028 | Monograph titled Integrated Disinfection Byproducts Mixtures Research (the 4Lab Study)· Toxicological and Chemical Evaluation of Alternative Disinfection Treatment Scenarios | Dr Simmons, Jane Ellen (13%) Dr Richardson, Susan D (10%) Mr Miltner, Richard J (9%) Dr Speth, Thomas (8%) Ms Schenck, Kathleen (6%) Dr. Narotsky, Michael G. (5%) Ms Teuschler, Linda K (4%) Mr Rice, Glenn (4%) Ms Warren, Sarah H (4%) Dr Hunter, E. Sidney (3%) Dr Claxton, Larry D. (3%) Dr DeAngelo, Anthony B (3%) Ms Best, Deborah S (3%) Dr. Pegram, Rex A (2%) Dr. Ward, William (2%) Ms Rogers, Ellen H. (2%) Mr. McDonald, Anthony (2%) Mr. Thruston, A. D. (1%) Ms. Moore, Tanya M (1%) Mr. Sey, Yusupha M. (1%) Mr. Krasner, Stuart (4% Non-EPA) Dr Weinberg, Howard (4% Non-EPA) Dr Crosby, Lynn M (3% Non-EPA) Dr McKague, A. B. (1% Non-EPA) Dr Gennings, Chris (1% Non-EPA) Dr. Morgan, Kevin T. (1% Non-EPA) NHEERL |
| S09HE0031 | (1) Gene Expression Profiles in the Cerebellum and Hippocampus Following Exposure to a Neurotoxicant, Aroclor 1254 Developmental Effects (2) Gene Expression Profiles Following Exposure to a Developmental Neurotoxicant, Aroclor 1254 Pathway analysis for possible mode(s) of action | Dr Royland, Joyce E (50%) Dr Kodavanti, Prasada Rao S. (40%) Ms Wu, Jinfang (5% Non-EPA) Dr Zawia, Nassar H (5% Non-EPA) NHEERL |
| S09TF0100 | Review of the Governing Equations, Computational Algorithms, and Other Components of the Models-3 Community Multiscale Air Quality (CMAQ) Modeling System | Mr Schere, Kenneth L (50%) Dr Byun, Daewon (50% Non-EPA) NERL |
| <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 II Award -- Total of 22 | | |
|--|--|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09ER 0004 | Genomic Approaches for Cross-Species Extrapolation in Toxicology | Dr. Benson, William H (60%) Dr. Di Giulio, Richard T. (40% Non-EPA) NHEERL |
| S09ER 0008 | (1) Linkage of Biochemical Responses to Population-Level Effects: A Case Study with Vitellogenin in the Fathead Minnow (<i>Pimephales promelas</i>) (2) Relationship of Plasma Sex Steroid Concentrations in Female Fathead Minnows to Reproductive Success and Population Status | Dr. Ankley, Gerald T. (30%) Dr. Miller, David H. (30%) Ms. Jensen, Kathleen M (10%) Dr. Villeneuve, Daniel L. (10%) Ms. Durhan, Elizabeth J (5%) Mr. Kahl, Michael D. (5%) Ms. Makynen, Elizabeth A. (5%) Dr. Martinovic, Dalma (5% Non-EPA) NHEERL |
| S09ER 0009 | Stable Nitrogen Isotopes of Plankton and Benthos Reflect a Landscape-Level Influence on Great Lakes Coastal Ecosystems | Mr. Peterson, Gregory S (65%) Dr. Sierszen, Michael E. (15%) Dr. Yurista, Peder M (15%) Dr. Kelly, John R. (5%) NHEERL |
| S09ER 0019 | Comparing Environmental Influences on Coral Bleaching Across and within Species Using Clustered Binomial Regression | Dr. Yee, Susan Harrell (80%) Dr. Santavy, Deborah L. (10%) Dr. Barron, Mace G (10%) NHEERL |
| S09ER 0115 | (1) Evaluation of Stony Coral Indicators for Coral Reef Management (2) Estimating 3-Dimensional Colony Surface Area of Field Corals (3) Characterizing Coral Condition Using Estimates of Three-Dimensional Colony Surface Area | Dr. Fisher, William S (42%) Mr. Courtney, Lee (17%) Ms. Oliver, Leah (7%) Mr. Quarles, Robert (3%) Mr. Campbell, Jed (3%) Dr. Raimondo, Sandy (3%) Dr. Davis, Will (3%) Ms. Harris, Peggy (2%) Ms. Hemmer, Becky (2%) Mr. Patrick, Jim (2%) Mr. LoBue, Charles (2%) Mr. Davis, Wayne (2%) Mr. Parsons, Mel (2%) Ms. Force, Leska (8% Non-EPA) Mr. Hutchins, Aaron (2% Non-EPA) NHEERL |
| *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 22 | | |
|--|--|---|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09HE0024 | <p>(1) Evaluation of Physiologically Based Pharmacokinetic Models for Use in Risk Assessment</p> <p>(2) Approaches for Applications of Physiologically Based Pharmacokinetic Models in Risk Assessment</p> | <p>Dr Chiu, Weihsueh (8%) Dr Barton, Hugh A (8%) Dr DeWoskin, Robert S (8%) Dr Lipscomb, John C (8%) Dr Thompson, Chad M. (8%) Dr Schlosser, Paul (8%) Dr. Sonawane, Babasaheb (8%) Dr. Krishnan, Kannan (44% Non-EPA)</p> <p>NCEA</p> |
| S09HE0032 | <p>(1) Differences in Allergenic Potential of Food Extracts Following Oral Exposure in Mice Reflect Differences in Digestibility Potential Approaches to Safety Assessment</p> <p>(2) Failure to Induce Oral Tolerance in Mice is Predictive of Dietary Allergenic Potency Among Foods with Sensitizing Capacity</p> | <p>Dr Bowman, Christal C (50%) Dr Selgrade, MaryJane K (50%)</p> <p>NHEERL</p> |
| S09HE0033 | <p>Toxicogenomic Study of Triazole Fungicides and Perfluoroalkyl Acids in Rat Livers Predicts Toxicity and Categorizes Chemicals Based on Mechanisms of Toxicity</p> | <p>Mr. Dix, David J (15%) Mr. Martin, Matthew T (15%) Mr. Lau, Christopher (10%) Ms. Wood, Carmen R (10%) Ren, Hongzu (10%) Mr. Corton, J. C (5%) Mr. Kavlock, Robert J. (5%) Mr. Brennan, Richard J. (13% Non-EPA) Mr. Hu, Wenyue (12% Non-EPA) Ayanoglu, Eser (5% Non-EPA)</p> <p>NCCT</p> |
| S09IE0042 | <p>(1) Methanol Oxidation Using Ozone on Titania-Supported Vanadia Catalyst</p> <p>(2) Vapor Phase Oxidation of Dimethyl Sulfide with Ozone over V2O5/TiO2 Catalyst</p> <p>(3) Catalytic Oxidation of Dimethyl Sulfide with Ozone Effects of Promoter and Physico-Chemical Properties of Metal Oxide Catalysts</p> | <p>Dr Sahle-Demessie, Endalkachew (54%) Dr. Devulapelli, Venu Gopal (23% Non-EPA) Dr Almquist, Catherine B (13% Non-EPA) Dr Sehker, Sridara Chandra (7% Non-EPA) Ms Sowash, Julia (3% Non-EPA)</p> <p>NRMRL</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 -- Total of 22 | | |
|---|---|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09M M0049 | (1) Perfluorinated Compounds in House Dust from Ohio and North Carolina, USA (2) Perfluorinated Compounds in the Cape Fear Drainage Basin in North Carolina (3) Perfluorinated Compounds in Whole Fish Homogenates from the Ohio, Missouri, and Upper Mississippi Rivers, USA | Dr Lindstrom, Andrew B. (25%) Dr. Strynar, Mark J (25%) Dr. Egeghy, Peter (5%) Dr. Lazorchak, James (5%) Dr Ye, Xibiao (15% Non-EPA) Dr. Nakayama, Shoji (15% Non-EPA) Dr. Varns, Jerry L. (5% Non-EPA) Mr. Helfant, Laurence (5% Non-EPA) NERL |
| S09M M0065 | Using Field Data and Weight of Evidence to Develop Water Quality Criteria | Dr. Cormier, Susan M (25%) Dr Paul, John F. (25%) Dr Spehar, Robert L (25%) Dr. Berry, Walter J (10%) Dr. Suter, II, Glenn W (10%) Dr Shaw-Allen, Patricia (5%) NCEA |
| S09OR 0070 | (1) Hydrologic Modeling of an Eastern Pennsylvania Watershed with NEXRAD and Rain Gauge Data (2) Stochastic Residual-Error Analysis for Estimating Hydrologic Model Predictive Uncertainty | Dr Hantush, Mohamed M (50%) Dr Kalin, Latif (50% Non-EPA) NRMRL |
| S09OR 0072 | Spatial and Temporal Variability of Solar Ultraviolet Exposure of Coral Assemblages in the Florida Keys: Importance of Colored Dissolved Organic Matter | Dr. Zepp, Richard G (35%) Dr Fisher, William S (10%) Dr Cyterski, Michael J (10%) Dr Shank, G. Christopher (15% Non-EPA) Dr. Stabenau, Erik (10% Non-EPA) Mr Bartels, Erich (10% Non-EPA) Dr Patterson, Karen W. (5% Non-EPA) Dr Anderson, Susan L. (5% Non-EPA) NERL |
| S09RA 0075 | Dietary Uptake Models Used for Modeling the Bioaccumulation of Organic Contaminants in Fish | Dr Barber, M. Craig (100%) NERL |
| <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 II Award -- Total of 22 | | |
|---|--|---|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09RA0082 | (1) Bioavailability of Chemical Contaminants in Aquatic Systems (2) Toxicokinetics in Fishes (3) Ecological Risk Assessment | Dr. Erickson, Russell (10%) Dr. Ankley, Gerald (10%) Dr Barron, Mace (10%) Dr. Cook, Philip (10%) Dr. Henry, Tala (10%) Dr. McKim, James (10%) Dr. Mount, David (10%) Dr. Nichols, John (10%) Mr Hayton, William (10% Non-EPA) Mr. Kleinow, Kevin (10% Non-EPA) NHEERL |
| S09RA0083 | Non-Navigable Streams and Adjacent Wetlands: Addressing Science Needs Following the Supreme Court's Rapanos Decision | Dr. Leibowitz, Scott G. (50%) Dr Wigington, Jr, Parker J (25%) Ms Downing, Donna M (10%) Dr. Rains, Mark C. (15% Non-EPA) NHEERL |
| S09TF0094 | (1) Effects of Using the CB05 vs. SAPRC99 vs CB4 Chemical Mechanism on Model Predictions Ozone and Gas-Phase Photochemical Precursor Concentrations (2) Impact of an Updated Carbon Bond Mechanism on Predictions from the Community Multiscale Air Quality Modeling System: Preliminary Assessment | Ms. Luecken, Deborah (32%) Dr. Sarwar, Golam (32%) Dr Phillips, Sharon (9%) Dr. Jang, Carey (5%) Dr Yarwood, Greg (12% Non-EPA) Dr Whitten, Gary (5% Non-EPA) Dr Carter, William P L (5% Non-EPA) NERL |
| S09TF0099 | (1) Seasonal and Regional Air Quality and Atmospheric Deposition in the Eastern US (2) Changes in Air Quality and Atmospheric Deposition in the Eastern US 1990-2004 | Dr Sickles, II, Joseph E (75%) Mr Shadwick, Douglas S (25% Non-EPA) NERL |
| S09TF0101 | Organic Carbon-Water Concentration Quotients (II socS and pocS) Measuring Apparent Chemical Disequilibria and Exploring the Impact of Black Carbon in Lake Michigan | Dr. Burkhard, Lawrence P (38%) Dr Cook, Philip M (37%) Ms. Lukasewycz, Marta T (25%) NHEERL |
| S09TF0103 | Evaluation of Groundwater Flow Patterns Around a Dual-Screened Groundwater Circulation Well | Dr. Simon, Michelle A (50%) Dr. Johnson, Richard L (50% Non-EPA) NRMRL |
| <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 II Award -- Total of 22 | | |
|---|---|---|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09TF0 108 | Designing Small Molecules for Biodegradability | Dr. Boethling, Robert S (90%) Mr DiFiore, David (5%) Ms Sommer, Elizabeth (5%) OPPTS |
| S09TF0 111 | Air-Liquid Partition Coefficient for a Diverse Set of Organic Compounds: Henry's Law Constant in Water and Hexadecane | Dr Hilal, Said (80%) Dr. Carreira, L A (15% Non-EPA) Dr. Ayyampalayam, S N. (5% Non-EPA) NERL |
| <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 -- Total of 31 | | |
|---|--|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09CS0001 | Evaluation of Contaminant Resuspension Potential during Cap Placement at Two Dissimilar Sites | Mr Lyons, Terrence M (50%) Mr Marcy, Ken (1%) Ms. Guza, Olga (1%) Dr Magar, Victor (20% Non-EPA) Ms. Ickes, Jennifer A (20% Non-EPA) Dr Myers, Tommy E. (3% Non-EPA) Ms. Cumming, Lydia (1% Non-EPA) Dr. Keegan, Michael (1% Non-EPA) Mr Albro, Carl S. (1% Non-EPA) Ms. Bachman, Brenda (1% Non-EPA) Mr. Fredette, Thomas J (1% Non-EPA) NRMRL |
| S09ER0006 | (1) Ketoconazole in the Fathead Minnow (<i>Pimephales promelas</i>) Reproductive Toxicity and Biological Compensation (2) Reproductive Toxicity of Vinclozolin in the Fathead Minnow Confirming an Anti-Androgenic Mode of Action (3) Transcription of Key Genes Regulating Gonadal Steroidogenesis in Control and Ketoconazole-or Vinclozolin-Exposed Fathead Minnows | Dr. Villeneuve, Daniel L (17%) Dr. Ankley, Gerald T (17%) Ms Jensen, Kathleen M (6%) Mr. Kahl, Michael D. (6%) Ms. Makynen, Elizabeth A (6%) Ms Durhan, Elizabeth J (3%) Dr. Johnson, Rodney D. (3%) Dr. Knoebl, Iris (3%) Dr. Martinovic, Dalma (15% Non-EPA) Ms. Blake, Lindsey S. (9% Non-EPA) Ms. Greene, Katie J. (9% Non-EPA) Mr Brodin, Jeffrey D. (3% Non-EPA) Dr Miracle, Ann L (3% Non-EPA) NHEERL |
| S09ER0012 | (1) Setting Expectations for the Ecological Condition of Streams The Concept of Reference Condition (2) Striving for Consistency in a National Assessment the Challenges of Applying a Reference-Condition Approach at a Continental Scale | Dr Stoddard, John (35%) Dr Larsen, David P. (5%) Dr Paulsen, Steven G (5%) Dr Sickle, John Van (5%) Dr Yuan, Lester L (5%) Dr Herlihy, Alan T. (25% Non-EPA) Dr Hawkins, Charles P (10% Non-EPA) Dr Johnson, Richard K (5% Non-EPA) Dr. Norris, Richard H (5% Non-EPA) NHEERL |
| <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 -- Total of 31 | | |
|--|--|---|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09ER 0015 | Marine Sediment Toxicity Identification Evaluation Methods for the Anionic Metals Arsenic and Chromium | Dr Burgess, Robert (35%) Dr Cantwell, Mark G. (10%) Dr Ho, Kay T. (10%) Ms Pelletier, Marguente C (10%) Mr. Serbst, Jonathan R. (10%) Mr. Ryba, Stephan A. (10%) Ms Perron, Monique M. (15% Non-EPA) NHEERL |
| S09ER 0018 | (1) Assessing the attributable risks, relative risks, and regional extents of aquatic stressors (2) Using Relative Risk to Compare the Effects of Aquatic Stressors at a Regional Scale | Dr. Sickie, John Van (60%) Dr. Paulsen, Steven G. (20%) Dr. Stoddard, John L. (10%) Dr. Olsen, Anthony R. (10%) NHEERL |
| S09ER 0021 | An Approach for Evaluating the Effectiveness of Various Ozone Air Quality Standards for Protecting Trees | Dr Hogsett, William E (40%) Dr. Tingey, David T. (25%) Dr. Lee, E Henry (25%) Dr. Beedlow, Peter A (5%) Dr Andersen, Christian P. (5% Non-EPA) NHEERL |
| S09HE 0023 | (1) Perfluorooctanoic Acid-induced Developmental Toxicity in the Mouse is Dependent on Expression of Peroxisome Proliferator-Activated Receptor-Alpha (2) Developmental Toxicity of Perfluorooctane Sulfonate (PFOS) is not Dependent on Expression of Peroxisome Proliferator Activated Receptor-Alpha (PPARalpha) in the Mouse (3) Gene Profiling in the Livers of Wild-Type and PPARalpha-Null Mice Exposed to Perfluorooctanoic Acid | Dr Abbott, Barbara D. (20%) Dr. Rosen, Mitchell B (20%) Dr Wolf, Cynthia J (10%) Dr. Das, Kaberi P. (10%) Dr. Wolf, Douglas C. (10%) Dr. Lau, Christopher S. (5%) Dr Corton, Chris (5%) Dr Strynar, Mark J. (5%) Dr Lindstrom, Andrew B. (5%) Ms Wood, Carmen R (5%) Ms Schmid, Judith E (1%) Dr. Nakayama, Shoji (1% Non-EPA) Mr Zehr, Robert D (1% Non-EPA) Mr. Helfant, Laurence (1% Non-EPA) Mr Blair, Eric (1% Non-EPA) NHEERL |
| S09HE 0026 | Lingering Effect: Epidemiological Information Useful for Risk Assessment | Dr. Chen, Chao W (100%) NCEA |
| *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 -- Total of 31 | | |
|--|--|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09HE0030 | Mechanistic Investigation of the Noncytochrome P450-Mediated Metabolism of Triadimefon to Triadimenol in Hepatic Microsomes | Dr Kenneke, John F. (43%) Mr Mazur, Christopher S (42%) Ms Rutger, Susan E (10% Non-EPA) Mr Sack, Thomas J (5% Non-EPA) NERL |
| S09HE0035 | (1) Uncertainties in Biologically-Based Modeling of Formaldehyde-Induced Respiratory Cancer Risk: Identification of Key Issues (2) Uncertainties in the CIIT model for Formaldehyde-Induced Carcinogenicity in the Rat A Limited Sensitivity Analysis-I (3) Sensitivity Analysis of Biologically Motivated Model for Formaldehyde-Induced Respiratory Cancer in Humans | Dr Subramaniam, Ravi P (25%) Mr. White, Paul (11%) Dr Chen, Chao (8%) Dr Fox, John (7%) Dr Schlosser, Paul M (5%) Dr Thompson, Chad M (3%) Dr Devoney, Danielle (2%) Dr Crump, Kenny S (24% Non-EPA) Ms Landingham, Cynthia Van (12% Non-EPA) Dr. Portier, Christopher J (3% Non-EPA) NCEA |
| S09HE0039 | (1) Substitution of Synthetic Chimpanzee Androgen Receptor for Human Androgen Receptor in Competitive Binding and Transcriptional Activation Assays for EDC Screening (2) High Throughput Adjustable 96-Well Plate Assay for Androgen Receptor Binding A Practical Approach for EDC Screening Using the Chimpanzee AR | Dr. Harig, Phillip C (30%) Ms Cardon, Mary C. (25%) Dr. Wilson, Vickie S (15%) Ms Lambright, Christy (10%) Ms Bobseine, Kathy (10%) Dr Gray, Jr, L Earl (5%) Dr Blystone, Chad (5% Non-EPA) NHEERL |
| S09HS0041 | An Integrated Culture and Real-Time PCR Method to Assess Viability of Disinfectant Treated Bacillus Spores Using Robotics and the MPN Quantification Method | Ms Varughese, Eunice A (75%) Dr Haugland, Richard A (20%) Mr Wymer, Larry J (5%) NERL |
| S09IE0044 | Arsenate Adsorption on Ruthenium Oxide A Spectroscopic and Kinetic Investigation | Dr Luxton, Todd P (50%) Dr Scheckel, Kirk G (25%) Dr Eick, Matthew J. (25% Non-EPA) NRMRL |
| S09IRO046 | The relationship of maternal and fetal toxicity in developmental toxicology bioassays with notes on the biological significance of the "no observed adverse effect level" | Dr Chernoff, Neil (60%) Ms Rogers, Ellen H (30%) Dr Gage, Michael I (5% Non-EPA) Dr Francis, Bettina M (5% Non-EPA) NHEERL |
| *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 -- Total of 31 | | |
|--|---|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09IR0047 | <p>(1) Identification by Microarray of a Common Pattern of Gene Expression in Intact Intestine and Cultured Intestinal Cells Exposed to Virulent <i>Aeromonas hydrophila</i> Isolates</p> <p>(2) Evaluating Virulence of Waterborne and Clinical <i>Aeromonas</i> Isolates Using Gene Expression and Mortality in Neonatal Mice Followed by Assessing Cell Culture's Ability to Predict Virulence Based on Transcriptional Response</p> | <p>Dr. Hayes, Sam (40%) Dr. Vesper, Stephen (15%) Dr. Lye, Dennis (10%) Dr. Rodgers, Mark (5%) Dr. Stelma, Gerard (5%) Ms Lye, Bethany (10% Non-EPA) Mr. McKinstry, Craig (5% Non-EPA) Dr. Mallard, Joel (5% Non-EPA) Dr Vandewalle, Alain (5% Non-EPA)</p> <p>NERL</p> |
| S09M M0053 | Investigating Compensation and Recovery of Fathead Minnow (<i>Pimephales promelas</i>) Exposed to 17a- Ethynylestradiol with Metabolite Profiling | <p>Dr. Ekman, Drew R. (22%) Dr. Collette, Timothy W. (19%) Dr. Teng, Quincy (14%) Dr. Villeneuve, Daniel L (12%) Dr. Ankley, Gerald T (12%) Dr. Jensen, Kathleen M (7%) Dr Kahl, Michael D (7%) Dr Durhan, Elizabeth (7%)</p> <p>NERL</p> |
| S09M M0054 | Multi-Laboratory Testing of a Screening Method for World Trade Center (WTC) Collapse Duet | <p>Dr. Rosati, Jacky Ann (50%) Ms. Bern, Amy M (30%) Dr Willis, Robert D (10%) Ms. Conner, Teri L (4%) Dr. Kahn, Henry (4%) Mr. Friedman, David (1%) Mr. Blanchard, Fredrick T. (1% Non-EPA)</p> <p>NHSRC</p> |
| S09M M0057 | Development of EPA Method 535 for the Determination of Chloroacetanilide and Other Acetamide Herbicide Degradates in Drinking Water by Solid-Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry | <p>Dr. Shoemaker, Jody A (75%) Ms. Vazquez (Bassett), Margarita (25%)</p> <p>NERL</p> |
| S09M M0060 | The Effects of Meteorology on Ozone in Urban Areas and their Use in Assessing Ozone Trends | <p>Ms. Camalier, Louise (50%) Mr. Cox, William (30%) Mr. Dolwick, Patrick (20%)</p> <p>OAQPS</p> |
| S09M M0062 | Retained Nitrate, Hydrated Sulfates, and Carbonaceous Mass in Federal Reference Method Fine Particulate Matter for Six Eastern U S Cities | <p>Mr Frank, Neil H. (100%)</p> <p>OAQPS</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 III Award -- Total of 31 | | |
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| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09M M0064 | Signals from the Benthos Development and Evaluation of a Benthic Index for the Nearshore Gulf of Maine | Mr Hale, Stephen S. (90%) Dr Heltshe, James F (10% Non-EPA) NHEERL |
| S09M M0066 | (1) A Bioassessment Approach for Mid-Continent Great Rivers. the Upper Mississippi, Missouri, and Ohio (USA) (2) Using Stressor Gradients to Determine Reference Expectations for Great River Fish Assemblages | Dr Angradi, Theodore (Ted) R. (50%) Mr. Pearson, Mark S. (7%) Dr. Bolgrien, David W (5%) Ms. Jicha, Terri M. (5%) Dr. Hill, Brian H (5%) Ms. Taylor, Debra L. (5%) Ms. Blocksom, Karen A (5%) Mr Batterman, Allan R (3%) Dr. Moffett, Mary F (3%) Ms Elonen, Colleen M. (3%) Mr. Anderson, Leroy E (3%) Mr. Shepard, Larry J. (3%) Dr Schweiger, E William (3% Non-EPA) NHEERL |
| S09OR 0069 | Parameters of Dose-Response are on the Boundary What Happens with BMDL? | Dr. Kopylev, Leonid (50%) Dr. Fox, John (50%) NCEA |
| S09OR 0073 | Pb Isotopes in Drinking Water: A New Strategy for Source Detection of Low Pb Sources | Dr Sidle, William (90%) Mr Haught, Roy (10%) NRMRL |
| Linked With | | |
| S09RM 0090 | Vulnerability of Headwater Catchment Resources to Incidences of Pb-210 Excess and Cs-137 Radionuclide Fallout | Dr. Sidle, William (100%) NRMRL |
| S09RA 0076 | Repeating History Pharmaceuticals in the Environment | Dr Ankley, Gerald T (50%) Dr Sumpter, John P (20% Non-EPA) Dr Brooks, Bryan W (15% Non-EPA) Dr Huggett, Duane B (15% Non-EPA) NHEERL |
| *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 -- Total of 31 | | |
|--|---|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09RM0088 | Prospects for Enhanced Groundwater Recharge via Infiltration of Urban Storm Water Runoff: A Case Study | Dr. Shuster, William D (60%) Mr Gehring, Richard (35% Non-EPA) Mr Gerken, Jon (5% Non-EPA) NRMRL |
| S09RM0089 | Front-Loading Urban Stormwater Management for Success- a Perspective Incorporating Current Studies on the Implementation of Retrofit Low-Impact Development | Dr. Shuster, William D. (65%) Dr Morrison, Matthew A. (30%) Ms. Webb, Rachel M (5% Non-EPA) NRMRL |
| S09RM0092 | Effect of Natural Organic Matter on the Reduction of Nitroaromatics by Fe(II) Species | Dr. Colon, Dalizza (80%) Dr. Weber, Eric J. (10%) Dr Anderson, James L (10% Non-EPA) NERL |
| S09TF0096 | Characterization of Near-Road Pollutant Gradients Using Path-Integrated Optical Remote Sensing | Dr Thoma, Eben D. (25%) Mr Shores, Richard C. (25%) Dr Isakov, Vlad (25%) Dr Baldauf, Richard W. (25%) NRMRL |
| S09TF0097 | (1) Arsenic Speciation and Identification of Monomethylarsonous Acid and Monomethylthioarsonic Acid in Complex Matrix (2) Investigation of the pH Effects on the Formation of Methylated Thio-Arsenicals, and the Effects of pH and Temperature on their Stability | Dr. Creed, John T (29%) Dr Creed, Patricia A (20%) Ms. Schwegel, Carol A (8%) Dr Conklin, Sean D. (17% Non-EPA) Dr Yathavakilla, Santha Ketavarapu V (15% Non-EPA) Dr Fricke, Michael W (5% Non-EPA) Dr Heitkemper, Douglas T. (2% Non-EPA) Dr Shockey, Nohora V (2% Non-EPA) Dr Caruso, Joseph A (2% Non-EPA) NERL |
| S09TF0098 | Measurement of Bi-Directional Ammonia Fluxes Over Soybean Using the Modified Bowen-Ratio Technique | Dr Walker, John T (85%) Dr Robarge, Wayne (5% Non-EPA) Dr. Wu, Yihua (5% Non-EPA) Dr Meyers, Tilden (5% Non-EPA) NRMRL |
| *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 25 | | |
|---|---|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09ER 0011 | (1) Quantification of Phenol, Phenyl Glucuronide, and Phenyl Sulfate in Blood of Unanesthetized Rainbow Trout by Online Microdialysis Sampling (2) Use of Online Microdialysis Sampling to Determine the in vivo Rate of Phenol Glucuronidation in Rainbow Trout | Mr. Nichols, John (25%) Mr. Hoffman, Alex (25%) Mr. Fitzsimmons, Patrick (25%) Mr. Lien, Gregory (15%) Ms. Jenson, Correne (10%) NHEERL |
| S09ER 0013 | Assessing Vulnerabilities from Alternative Development Patterns | Dr. Mehaffey, Megan (30%) Mr. Wade, Timothy (10%) Dr. Smith, Betsy (10%) Dr. Wainger, Lisa (20% Non-EPA) Mr. Yankee, Dennis (10% Non-EPA) Ms. Bott, Vicki (10% Non-EPA) Ms. Yarbrough, Rebecca (10% Non-EPA) NERL |
| S09ER 0020 | (1) Using a Geographic Information System to Identify Areas with Potential for Off-Target Pesticide Exposure (2) Selecting and Evaluating Native Plants for Region-Specific Phytotoxicity Testing | Dr. Pfleeger, Thomas (25%) Dr. Olszyk, David (25%) Ms. Burdick, Connie (20%) Dr. Lee, E. Henry (10%) Dr. King, George (5% Non-EPA) Mr. Plocher, Milton (5% Non-EPA) Mr. Kem, Jeffery (5% Non-EPA) Dr. Fletcher, John (5% Non-EPA) NHEERL |
| S09ER 0022 | (1) The Role of Particulate Matter-Associated Zinc in Cardiac Injury in Rats (2) Systemic Imbalance of Essential Metals and Cardiac Gene Expression in Rats Following Acute Pulmonary Zinc Exposure | Dr. Kodavanti, Urmila P. (25%) Ms. Schladweiler, Mette C. (10%) Dr. Karoly, Edward D. (8%) Mr. Ledbetter, Allen D. (5%) Mr. McGee, John K. (5%) Ms. Schmidt, Judy (5%) Ms. Richards, Judy E. (5%) Dr. Costa, Daniel L. (2%) Mr. Jaskot, Richard H. (2%) Dr. Gilmour, Peter S. (10% Non-EPA) Dr. Mandavilli, Bhaskar S. (5% Non-EPA) Dr. Nyska, Abraham (5% Non-EPA) Dr. Thomas, Ronald (3% Non-EPA) Ms. Wallenborn, J. Grace (2% Non-EPA) Dr. Christiani, David C. (2% Non-EPA) Dr. Runge, Marshall S. (2% Non-EPA) Dr. Peddada, Shyamal (2% Non-EPA) Dr. Nageswara, Madamanchi (2% Non-EPA) NHEERL |
| *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 25 | | |
|--|---|---|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09HE0027 | Development of a Human Physiologically Based Pharmacokinetic (PBPK) Model for Inorganic Arsenic and its Mono-and Di-Methylated Metabolites | Dr El-Masri, Hisham A. (50%) Dr Kenyon, Elaina M. (50%) NHEERL |
| S09HE0036 | (1) Children's Health Risk Assessment Incorporating a Lifestage Approach into the Risk Assessment Process (2) A Lifestage Approach to Assessing Children's Exposure (3) A Lifestage-Specific Approach to Hazard and Dose-Response Characterization for Children's Health Risk Assessment | Ms Brown, Rebecca C. (20%) Dr Hubal, Elaine Cohen (15%) Dr. Makris, Susan L. (15%) Dr. Thompson, Chad M. (11%) Dr. Euling, Susan Y (8%) Ms. Kimmel, Carole A (8%) Dr. Moya, Jacqueline (8%) Dr Barone, Jr., Stanley (5%) Dr. Selevan, Sherry G (5%) Dr Sonawane, Babasaheb R. (5%) NCEA |
| S09M0048 | (1) Automated Determination of Precursor Ion, Product Ion, and Neutral Loss Compositions and Deconvolution of Composite Mass Spectra Using Ion Correlation Based on Exact Masses and Relative Isotopic Abundances (2) An Inexpensive Autosampler to Maximize Throughput for an Ion Source that Samples Surfaces in Open Air (3) An Integrated Wipe Sample Transport/Autosampler to Maximize Throughput for a Direct Analysis in Real Time (Dart)/Orthogonal Acceleration, Time-of-Flight Mass Spectrometer (oa-TOFMS) | Dr. Grange, Andrew H (95%) Dr. Sovocool, G Wayne (5%) NERL |
| S09M0050 | (1) Water Quality in Great Lakes Coastal Wetlands: Basin-Wide Patterns and Responses to an Anthropogenic Disturbance Gradient (2) Human Influences on Water Quality in Great Lakes Coastal Wetlands | Dr Trebitz, Anett S (20%) Dr Morrice, John A. (20%) Ms Cotter, Anne C (15%) Dr Brazner, John C (5%) Dr. Kelly, John R (5%) Mr Knuth, Michael L. (5%) Mr Peterson, Gregory (5%) Dr. Sierszen, Michael E. (5%) Ms Thompson, Jo A. (5%) Dr. Danz, Nicholas P (5% Non-EPA) Dr Hollenhorst, Tom (4% Non-EPA) Dr Niemi, Gerald J (2% Non-EPA) Dr Reavie, Euan D (2% Non-EPA) Dr Axler, Richard P (1% Non-EPA) Dr Regal, Ronald R (1% Non-EPA) NHEERL |
| *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 25 | | |
|--|--|---|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09M M0051 | Survey Design and Extent Estimates for the Wadeable Streams Assessment | Dr Olsen, Anthony R (70%) Mr. Peck, David V. (30%) NHEERL |
| S09M M0058 | A Process for Creating Multimetric Indices for Large-Scale Aquatic Surveys | Dr. Stoddard, John L. (50%) Mr Peck, David V (10%) Ms. Tarquinio, Ellen (10%) Dr. Herlihy, Alan T (10% Non-EPA) Dr Hughes, Robert M (10% Non-EPA) Mr. Whittier, Thomas (10% Non-EPA) NHEERL |
| S09M M0059 | Combining Existing Monitoring Sites with a Probability Survey Design-Examples from U S EPA's National Coastal Assessment | Dr. Paul, John F (14%) Dr Walker, Henry A (13%) Mr. Galloway, Walter B (13%) Dr. Pesch, Gerald G (13%) Mr. Cobb, Donald J. (13%) Mr. Strobel, Charles J. (13%) Dr. Summers, J. Kevin (13%) Mr Charpentier, Michael (4% Non-EPA) Dr. Heltshe, James (4% Non-EPA) NHEERL |
| S09M M0063 | (1) A Roughness-Corrected Index of Relative Bed Stability for Regional Stream Surveys (2) Geomorphic and Anthropogenic Influences on Fish and Amphibians in Pacific Northwest Coastal Streams | Dr Kaufmann, Philip R (80%) Dr Larsen, David P. (4%) Dr Shirazi, Mostafa A (1%) Dr. Faustini, John M (10% Non-EPA) Dr Hughes, Robert M (5% Non-EPA) NHEERL |
| S09OR 0068 | (1) Persistence of Nontuberculous Mycobacteria in a Drinking Water System after Addition of Filtration Treatment (2) Molecular Comparison of Mycobacterium avium Isolates from Clinical and Environmental Sources | Dr Hilborn, Elizabeth (30%) Mr. Covert, Terry C (15%) Dr. Harris, Stephanie I (8%) Ms. Bailey, Stephanie A (7%) Dr. Rice, Eugene (5%) Dr. Stelma, Jr., Gerard N (4%) Mr Schmitt, Michael T (3%) Mr. Yakrus, Mitchell A (15% Non-EPA) Ms. Donnelly, Sandra F (10% Non-EPA) Mr. Toney, Sean (3% Non-EPA) NHEERL |
| S09RA 0079 | Biomarkers of Exposure a Case Study with Inorganic Arsenic | Dr. Hughes, Michael (100%) NHEERL |
| *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 25 | | |
|--|---|---|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09RA0081 | <p>(1) Aqueous Microwave Chemistry A Clean and Green Synthetic Tool for Rapid Drug Discovery</p> <p>(2) Greener and Expeditious Synthesis of Bioactive Heterocycles using Microwave Irradiation</p> <p>(3) Greener and Sustainable Approaches to the Synthesis of Pharmaceutically Active Heterocycles</p> | <p>Dr. Varma, Rajender S (50%) Dr. Polshettiwar, Vivek (50% Non-EPA)</p> <p>NRMRL</p> |
| S09RA0084 | <p>(1) Role of Environmental Factors in the Timing of Puberty</p> <p>(2) Examination of US Puberty-Timing Data from 1940 to 1994 for Secular Trends: Panel Findings</p> <p>(3) Environmental Factors and Puberty Timing: Expert Panel Research Needs</p> | <p>Dr. Euling, Susan Y (29%) Dr. Selevan, Sherry G (14%) Dr. Gray, Jr, L Earl (7%) Dr. Buck Louis, Germaine M (7% Non-EPA) Dr. Marcus, Michele (7% Non-EPA) Dr. Herman-Giddens, Marcia (5% Non-EPA) Dr. Lee, Peter A (5% Non-EPA) Dr. Pescovitz, Ora Hirsch (3% Non-EPA) Dr. Skakkebaek, Niels E (3% Non-EPA) Dr. Juul, Anders (3% Non-EPA) Dr. Sorensen, Thorkild I A (3% Non-EPA) Dr. Ojeda, Sergio R (1% Non-EPA) Dr. Witchel, Selma Feldman (1% Non-EPA) Dr. Sippell, Wolfgang (1% Non-EPA) Mr Abbott, David H. (1% Non-EPA) Dr. Soto, Ana M (1% Non-EPA) Dr. Tyl, Rochelle W (1% Non-EPA) Dr. Bourguignon, Jean-Pierre (1% Non-EPA) Dr. Swan, Shanna H (1% Non-EPA) Dr Golub, Mari S (1% Non-EPA) Dr Wabitsch, Martin (1% Non-EPA) Dr Toppari, Jorma (1% Non-EPA) Dr Dunkel, Leo (1% Non-EPA) Dr. Himes, John H (1% Non-EPA) Dr. Teilmann, Grete (1% Non-EPA)</p> <p>NCEA</p> |
| S09RM0086 | <p>(1) Correlation of 2-Chlorobiphenyl Dechlorination by Fe/Pd with Iron Corrosion at Different pH</p> <p>(2) Dechlorination Kinetics of Monochlorobiphenyls by Fe/Pd: Effects of Solvent, Temperature, and PCB Concentration</p> | <p>Dr Al-Abed, Souhail R (70%) Dr Fang, Yuanxiang (30% Non-EPA)</p> <p>NRMRL</p> |
| S09TF0093 | <p>(1) Chemical Characterization of Ambient Particulate Matter Near the World Trade Center: Source Apportionment Using Organic and Inorganic Source Markers</p> <p>(2) Chemical Characterization of Volatile Organic Compounds Near the World Trade Center: Ambient Concentrations and Source Apportionment</p> | <p>Dr Olson, David A (35%) Dr Norris, Gary A (25%) Mr. Seila, Robert L (20%) Dr Landis, Matthew S. (10%) Dr Vette, Alan F (10%)</p> <p>NERL</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 Honorable Mention (No Monetary Award) - Total of 25 | | |
|--|---|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09TF0 095 | <p>(1) Cumulative Effects of Dibutyl Phthalate and Diethylhexyl Phthalate on Male Rat Reproductive Tract Development: Altered Fetal Steroid Hormones and Genes</p> <p>(2) A Mixture of Seven Antiandrogens Induces Reproductive Malformations in Rats</p> <p>(3) A Mixture of Five Phthalate Esters Inhibits Fetal Testicular Testosterone Production in the Sprague-Dawley Rat in a Cumulative, Dose-Additive Manner</p> | <p>Dr. Howdeshell, Kembra (32%) Mr , Johnathan Furr (20%) Dr. Gray, Jr., Leon Earl (18%) Dr Wilson, Vickie S (10%) Ms Lambright, Christy (10%) Dr. Rider, Cynthia (10% Non-EPA)</p> <p>NHEERL</p> |
| S09TF0 102 | <p>(1) Method for Measuring Air-Immiscible Liquid Partition Coefficients</p> <p>(2) Analysis of a Gas-Phase Partitioning Tracer Test Conducted in an Unsaturated Fractured-Clay Formation</p> | <p>Dr. Simon, Michelle A. (90%) Dr Brusseau, Mark L (10% Non-EPA)</p> <p>NRMRL</p> |
| S09TF0 105 | Resolving Local-Scale Emissions for Modeling Air Quality Near Roadways | <p>Dr Isakov, Vlad (40%) Mr. Cook, James Richard (30%) Mr. Touma, Jawad S (16%) Dr Thurman, James (5%) Dr Benjey, Bill (5%) Ms Kinnee, Ellen (2% Non-EPA) Mr Ensley, Darrell (2% Non-EPA)</p> <p>NVFEL</p> |
| S09TF0 107 | Perchlorate Behavior in a Municipal Lake Following Fireworks Displays | <p>Dr. Wilkin, Richard T (65%) Dr Fine, Dennis G (20% Non-EPA) Ms Burnett, Nicole G. (15% Non-EPA)</p> <p>NRMRL</p> |
| S09TF0 109 | Evaluation of Three Watershed-Scale Pesticide Environmental Transport and Fate Models | <p>Dr. Parker, Ronald D. (30%) Dr Barrett, Michael (10%) Dr Burns, Lawrence (10%) Dr. Arnold, J G (10% Non-EPA) Dr. Carrubba, Lee (10% Non-EPA) Dr. Snyder, N J. (10% Non-EPA) Dr Srinivasan, R (10% Non-EPA) Ms Neitsch, S L (10% Non-EPA)</p> <p>OPP</p> |
| S09TF0 112 | Chlorpyrifos Transformation by Aqueous Chlorine in the Presence of Bromide and Natural Organic Matter | <p>Dr Duirk, Stephen E. (75%) Dr Collette, Timothy W (15%) Mr Tarr, J C (10% Non-EPA)</p> <p>NERL</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 Honorable Mention (No Monetary Award) - Total of 25 | | |
|--|---|--|
| Nom. | Titles and Citations of Submitted Papers | Authors* and Nominating Organization |
| S09EE0114 | (1) High Permeability Membranes for the Dehydration of Low Water Content Ethanol by Pervaporation (2) A Novel Hydrophilic Polymer Membrane for the Dehydration of Organic Solvents | Dr. Namboodiri, Vasudevan V (55%) Dr. Vane, Leland M. (30%) Dr. Ponangi, Ravi P. (15% Non-EPA) NRMRL |
| Linked With | | |
| S09EE003 | Membrane-Assisted Vapor Stripping Energy Efficient Hybrid Distillation-Vapor Permeation Process for Alcohol-Water Separation | Dr Vane, Leland M (60%) Mr. Alvarez, Franklin R. (40%) NRMRL |
| *Note The percentages given after each name represent the current percent of the total level of effort as documented in the EPA nomination | | |

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

OAQPS - Office of Air Quality Planning and Standards

OPP - Office of Pesticide Programs

OPPTS - Office of Pollution Prevention and Toxic Substances