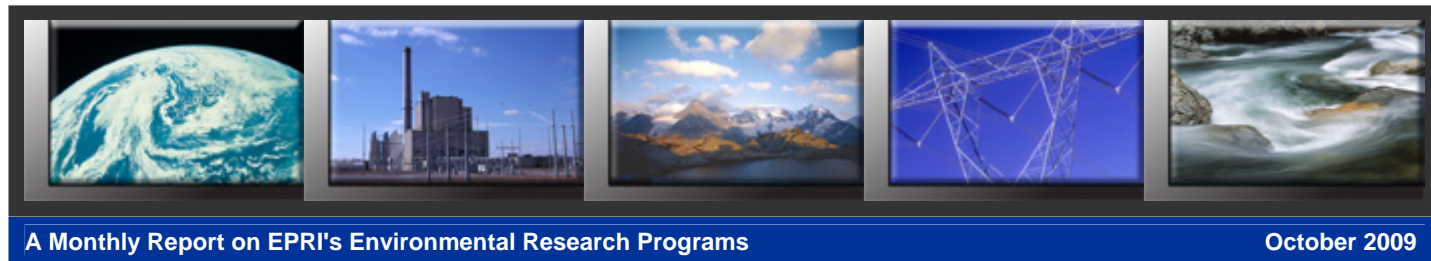


Environment Quick News



Program members can use their epri.com ID and password to download Acrobat PDF files of EPRI technical reports. For assistance, contact the EPRI Customer Assistance Center at (800) 313-3774.

Dear Environment Sector members:

We have just returned from a week of successful Environment Sector advisory meetings in Denver, and we appreciate the contributions by all of you who took the time to attend and participate in those meetings. Like you, we are struck by the multitude of legislative and regulatory decisions that will be made between now and the end of the year that will have significant impacts on the electricity industry. In all of these cases, EPRI is working diligently to provide science and technology information to key stakeholders.

As you all know, the House has passed climate legislation and the Senate is now working on the Boxer–Kerry bill. EPRI is increasingly being called on by key stakeholders to provide information relevant to consideration of U.S. climate legislation and to the international climate negotiations that will continue in Copenhagen in December. With regard to air quality, EPA is about to issue an extensive Information Collection Request for hazardous air pollutants, and EPRI staff members have been providing comments to the Agency and working with members in planning for the sampling program.

Another major decision forthcoming from EPA will be management of coal combustion products (CCPs). We have just completed a series of studies on CCPs in anticipation of this decision, and we will be meeting with EPA and other key agencies in the next few weeks to discuss the results. EPA is also examining its options for fish protection, including the potential for retrofit of cooling towers on once-through plants; a decision is planned for early next year. Already, EPRI analysis of the impacts of a closed-cycle cooling mandate has encouraged EPA to consider other alternatives, such as fine-mesh screens, for fish protection.

None of this valuable work would be possible without your support of the EPRI research into these important issues. We recognize that many of you are dealing with budgetary constraints during the current economic downturn, but given the enormous challenges our industry faces, we think EPRI's collaborative research is more valuable now than ever. We hope you agree.

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Air Quality Area News

Aerosol Research Team Receives Haagen-Smit Prize

Using largely EPRI-sponsored research, Barbara Turpin, Rutgers University; Pradeep Saxena, Kaiser Permanente (and former EPRI project manager); and Elisabeth Andrews, University of Colorado, have received the 2009 Haagen-Smit Prize. The annual prize honors two outstanding papers that have been previously published in *Atmospheric Environment* covering different science areas. The team was recognized for their benchmark and often-referenced technical paper, "Measuring and simulating particulate organics in the atmosphere: problems and prospects," *Atmospheric Environment* 34 (2000) 2983–3013. For more information, contact Eladio Knipping, (202) 293-2691, eknippin@epri.com.

Program 42: Air Toxics Health and Risk Assessment

EPRI Comments on EPA's Information Collection Request for Hazardous Air Pollutants

See story under Program 59.

Program 91: Assessment Tools for Ozone, Particulate Matter, Regional Haze and Atmospheric Deposition

Research Informs the Urban Haze Discussion

EPRI and Southeastern Aerosol Research and Characterization Program (SEARCH) team members met recently with the National Park Service (NPS) to discuss issues regarding a secondary particulate matter National Ambient Air Quality Standard (NAAQS) to address urban visibility. Historically, visibility has been a regional haze issue, and some of the sampling methods and equations to calculate light scattering and extinction may not work well in urban settings. At an Aug. 26–27 meeting, EPRI, NPS, Southern Company, and SEARCH contractors exchanged information, compared research results based on SEARCH and other data, and discussed appropriate methods for addressing urban haze. EPRI will continue to provide technical comments to the Clean Air Science Advisory Committee, NPS, and EPA throughout the NAAQS development process. For more information, contact Naresh Kumar, (650) 855-8758, nkumar@epri.com, or Stephanie Shaw, (650) 855-2353, sshaw@epri.com.

Program 92: Assessment of Air Quality Impacts on Health and the Environment

Preliminary Results From Detroit Cardiovascular Health Study Suggest Importance of Indoor PM Exposures

An EPRI study investigating associations between human health and fine particle exposures found different results depending on whether the fine particle concentrations were measured by personal or community monitors. The study looked at changes in blood pressure and other vascular function endpoints in 65 nonsmoking individuals. These health data were then compared with variations in fine particle (PM-2.5) concentrations as measured by personal monitors worn by the individuals; these monitors measure total personal exposure, which is composed of both outdoor and indoor exposures. In addition, PM was measured at a nearby outdoor (community) monitoring site. The study found an association between increases in total personal exposure and an elevation in blood pressure. No associations were found between community PM-2.5 concentrations and any of the cardiovascular endpoints measured. A paper on the research has been submitted for journal publication. For more information, contact Annette Rohr, (650) 855-2297, arohr@epri.com.

First Season of Michigan Integrated Cohort and Animal Particle Study Completed

The Michigan Integrated Cohort and Animal Particle Study (MICAPS) has reached a major milestone with the completion of the first season of human field work and animal exposures. MICAPS is an integrated, multiyear effort composed of a hybrid epidemiological panel/controlled human exposure study and a toxicological study in rodents. This summer, 14 individuals from rural communities with low particulate matter (PM) concentrations traveled to Dearborn, MI, where they were exposed to higher ambient PM concentrations for 5 consecutive days, 5 hours each day. Various cardiovascular tests were conducted the week before, week of, and week after the exposures. At the same time, laboratory rats were exposed to concentrated ambient

particles (CAPs) at the same location, and a battery of toxicological tests was conducted. Data analyses are under way. Field work will be repeated in the summer of 2010. For more information, contact Annette Rohr, (650) 855-2297, arohr@epri.com.

EPRI Health Effects Research Presented at Dublin Conference

EPRI's Ron Wyzga participated in the recent 2009 Conference of the International Society for Environmental Epidemiology (ISEE) in Dublin, Ireland. His oral presentation, "[Monitoring to resolve the air quality–health issue](#)," provided an overview of air quality monitoring in the United States, the limitations of current epidemiological studies, and the need for additional monitoring and toxicological studies to resolve key uncertainties. EPRI-linked research was also presented in poster sessions:

- Sinclair, A., Edgerton, E., Wyzga, R., and Tolsma, D. "A comparison of the effects of ambient air pollution on outpatient visits for acute respiratory illnesses over two time periods."
- Sinclair, A., Melly, S., Tolsma, D., Wyzga, R., Spengler, J., and Rohr, A. "Childhood asthma acute primary care visits, traffic, and traffic-related pollutants."
- Klemm, R., Wyzga, R., and Thomas, E. "Comparison of estimated effects of air pollution on human mortality calculated via SPlus and SAS."
- Klemm, R., Wyzga, R., and Thomas, E. "Daily mortality and air pollution in Atlanta: August 1998–December 2006."

For more information, contact Ron Wyzga, (650) 855-2132, rwyzga@epri.com.

GLOBAL CLIMATE CHANGE

[Visit the Global Climate Webpage](#)

Program 102: Global Climate Policy Costs and Benefits

Paper Explores "Effect of Anticipation" on International Climate Policy

Building upon prior research done for the Energy Modeling Forum, Richard Richels and Geoff Blanford of EPRI and Thomas Rutherford of the Swiss Federal Institute of Technology have examined the effect of policy anticipation for international greenhouse gas emissions (GHG) reductions. The new paper compares a scenario in which developing countries commit now to reducing emissions at a specified future date with a scenario where no action is taken prior to the commitment date. Anticipation of GHG emission reduction targets results in avoided costs from stranded assets, reducing the overall economic impact of the target. Countries already reducing emissions also benefit from anticipation of future targets. The paper, "International climate policy: A 'second best' solution for a 'second best' world?," has been accepted for publication in *Climate Change Letters*. For more information, contact Geoff Blanford, (650) 855-2126, gblanford@epri.com, or Richard Richels, (202) 293-2160, rrichels@epri.com.

Effects of U.S. Climate Policy on U.S. Agriculture

EPRI, in collaboration with Duke University's Nicholas Institute for Environmental Policy Solutions, Texas A&M University, and others, recently published a working paper evaluating the potential impacts of U.S. cap-and-trade policies on the net income of the U.S. agricultural sector and consumers. The study factors in higher production costs (due to increased fuel and energy-intensive input costs) as well as new revenue opportunities (e.g., supplying low-carbon bioenergy feedstocks such as switchgrass and crop residues, and emissions offset credit activities such as afforestation and livestock manure management). Unlike other recent analyses, the study finds an overall increase in net farm income and agricultural sector economic welfare. The paper, "The effects of low-carbon policies on net farm income," is posted on the Nicholas Institute [website](#). For more information, contact Steven Rose, (202) 293-6183, srose@epri.com.

Program 103: Greenhouse Gas Reduction Options

EPRI Cosponsors 9th Annual Workshop on International Greenhouse Gas Emission Trading

The 9th Annual Workshop on Greenhouse Gas Emission Trading was held in Paris, France on Sept. 14–15. Cosponsored by EPRI, the International Energy Agency (IEA), and the International Emissions Trading

Association (IETA), the workshop provided an opportunity for government, business, and various stakeholders to discuss key issues relating to the ongoing evolution of international climate policy. Tom Wilson and Adam Diamant from EPRI chaired several workshop sessions, made presentations, and provided opening and closing remarks. Most workshop [presentations](#) are now available at the IEA website. A more detailed discussion of the workshop will soon be posted on the [Global Climate webpage](#). For more information, contact Tom Wilson, (650) 855-7928, twilson@epri.com, or Adam Diamant, (510) 260-9105, adiamant@epri.com.

LAND AND GROUNDWATER

Program 49: Coal Combustion Products—Environmental Issues

Database Improves Accuracy of Groundwater Transport Modeling

[CD-MUSIC Reaction Database for Modeling Adsorption of Oxyanions on Iron Oxyhydroxides](#) (1017921). EPRI has developed a database of complexation reactions—based on fundamental knowledge of the physical and chemical structures of surfaces—to describe how oxyanions such as arsenic and selenium adsorb on iron oxyhydroxides, influencing their transport in groundwater. This Technical Report describes the database and how it can be used in modeling groundwater transport of oxyanions commonly encountered at coal combustion product management sites. For more information, contact Ken Ladwig, (262) 754-2744, keladwig@epri.com.

Program 50: Manufactured Gas Plant Site Management

Fall Meeting Informs Funders of Manufactured Gas Plant Site Management Program

The Manufactured Gas Plant (MGP) Site Management Program meeting on September 1–2 in Alexandria, VA featured information for program funders, including

- [technical presentations](#) on current EPRI research;
- a workshop on evaluating nonaqueous-phase liquid (NAPL) in bedrock at MGP sites, based on EPRI's 2008 [MGP Site Characterization Best Practices Manual for Bedrock](#) (1018276);
- discussion of an approach to make air monitoring at MGP sites more easily understood and publicly available; and
- an overview of efforts to address the sustainability of remediation projects.

For more information, contact Jeff Clock, (845) 608-0642, jclock@epri.com; Jim Lingle, (414) 355-5559, jlingle@epri.com; or Babu Nott, (650) 855-7946, bnott@epri.com.

Program 59: Power Plant Toxics Characterization

Accuracy Improved in Measuring Condensable Particulate Matter

[Evaluation of Alternative Condensable Particulate Matter Measurement Methods](#) (1017976). This Technical Update describes a study evaluating methods of measuring condensable particulate matter—species present in vapor form at stack gas temperatures that condense to liquid or solid aerosol form at ambient temperatures—by taking stack gas sulfuric acid into account. EPA's modified reference method offers some improvement but still has shortcomings; this report suggests techniques that can improve accuracy. For more information, contact Naomi Goodman, (650) 855-2193, ngoodman@epri.com.

EPRI Comments on EPA's Information Collection Request for Hazardous Air Pollutants

EPRI recently submitted [comments](#) to the U.S. Environmental Protection Agency (EPA) on its proposed Information Collection Request (ICR) for hazardous air pollutants from coal- and oil-fired electric utility steam generating units. The comments focus on improving sampling and analytical methods to produce data of high quality and maximum usefulness. For more information, contact Paul Chu, (650) 855-2362, pchu@epri.com, or Naomi Goodman, (650) 855-2193, ngoodman@epri.com.

Program 55: Strategic Water Issues: TMDLs, Availability, Climate

Project Update: Managing Water Requirements for Thermoelectric Generation

EPRI's Bob Goldstein held a project update webcast on Sept. 18 to discuss "Managing Water Requirements for Thermoelectric Generation: Evaluation of Available Methodologies." The webcast covered

- an evaluation of different methodologies for assessing and managing water resources for power plant use,
- illustrations of applications of the methodologies,
- strengths and weaknesses of each approach, and
- recommendations for selecting appropriate methodologies.

The project's draft final report is available for review by any funder of the Strategic Water Issues program. For more information, contact Robert Goldstein, (650) 855-2154, rogoldst@epri.com.

EPRI Presents Electric Power/Water Sustainability at Ground Water Protection Council Meeting

EPRI's Bob Goldstein gave a presentation entitled "Electric Power/Water Sustainability" as plenary speaker at the Water/Energy Sustainability Symposium during the 2009 Ground Water Protection Council Annual Forum, held Sept. 13–16 in Salt Lake City, UT. The Symposium was cosponsored by the U.S. Department of Energy and brought together leaders from government, the energy and water industries, academia, nongovernment water organizations, and other stakeholders to chart a collaborative course toward sustainability for both energy and water. The Ground Water Protection Council is a national association of state groundwater and underground injection control agencies that promotes the protection and conservation of groundwater resources for beneficial uses, and recognizes groundwater as a critical component of the ecosystem. For more information, contact Robert Goldstein, (650) 855-2154, rogoldst@epri.com.

Program 56: Effluent Guidelines and Water Quality Management

DOE Award Given to EPRI Team to Evaluate and Manage Selenium Chemistry in Wet FGDs

The U. S. Department of Energy recently granted an EPRI team lead by Trimeric Corporation a Phase II Small Business Innovation Research (SBIR) award to continue its work on evaluating and managing selenium chemistry in wet flue gas desulfurization (FGD) systems. The project's vision is to understand and then manage the selenium chemistry of wet FGDs up front in order to minimize downstream water treatment requirements. The initial Phase I results have been encouraging and have uncovered several potential approaches to improving selenium water management. EPRI's Effluent Guidelines and Water Quality Management program, as well as the Integrated Environmental Controls program in Generation, are part of the team and will cosponsor this research effort. For more information, contact Paul Chu, (650) 855-2362, pchu@epri.com.

Program 58: Waterpower

Dixon Presents EPRI Research at American Fisheries Society Annual Meeting

Doug Dixon made two presentations at the annual meeting of the American Fisheries Society, held in Nashville, TN, Aug. 31–Sept. 3. His first presentation, part of a symposium on Promoting Innovation in Fish Passage and Protection, was entitled "Fish-Friendly Turbines: Their Design and Development and a Roadmap for the Future." The second presentation was part of a symposium on Energy Production and Fisheries in the Coastal Zone; its topic was "Planned Energy (Ocean, Tidal, Hydropower, and Thermal) Development in the Coastal Zone and Relevant Fisheries Issues." In addition, Doug moderated a symposium on Monitoring, Characterizing, and Managing Big River Fish Communities; he co-organized this symposium with the Ohio River Sanitation Commission. For more information or copies of the presentations, contact Doug Dixon, (804) 642-1025, ddixon@epri.com.

EPRI Research Presented at Oregon Ocean Renewable Energy Conference IV

For the fourth year, Roger Bedard was the first speaker in the plenary session at the Oregon Ocean Renewable Energy Conference, held on Sept. 15–16 in Seaside, OR. Mr. Bedard's topic was "The Global Context for Ocean Renewable Energy." The focus of this year's conference, put on by the Oregon Wave Energy Trust, was on Oregon's efforts to cooperate internationally and lead the United States in the

responsible development of wave energy, emphasizing a collaborative approach to getting projects into the water. Interest in wave energy has been growing rapidly, and conference attendance was up 30% over last year. The conference was followed on Sept. 17 by a meeting in Seaside of EPRI's Marine Hydrokinetics Interest Group, attended by members from four utilities and invited guests. Mr. Bedard led the meeting, which focused on the technology development status, economics, and interconnection/integration with the grid of wave energy implementation in the United States. Roger Dugan, Senior Technical Executive in EPRI's Distribution Research Area, briefed the group on the EPRI Open Distribution System Simulator. For more information, contact Roger Bedard, (520) 979-3275, rbedard@epri.com.

Dixon Awarded Distinguished Service Award

Doug Dixon was presented with a Distinguished Service Award from the Bioengineering Section of the American Fisheries Society (AFS) at the AFS Annual Meeting in Nashville, TN, Aug. 31–Sept. 3. The award recognized Doug's service as President of the Bioengineering Section from August 2007 through August 2009. A notable accomplishment during his term was the development of a Continuing Education Program on bioengineering issues for fisheries professionals. The first course, Tools and Information for Upstream Passage of Fish, was held at this year's meeting. Future courses will focus on downstream fish passage and fish protection at water intakes. Doug's service continues as Past President for the Section through 2011. For more information, contact Doug Dixon, (804) 642-1025, ddixon@epri.com.

T&D ENVIRONMENTAL ISSUES

Program 51: T&D Facilities & Equipment: Environmental Issues

Report Reviews State-of-the-Art Technologies for Arsenic Remediation

[Arsenic Remediation Technologies for Groundwater and Soil](#) (1019476). This Technical Update reviews state-of-the-art technologies currently available to remediate arsenic contamination in soils, groundwater, and surface water. In the report, researchers consider the advantages and disadvantages of implementing each technology in different settings. For more information, contact Mary McLearn, (650) 855-2487, mmclearn@epri.com.

Stable Composition of PCB Dielectric Fluids Simplifies Risk Assessment

[Changes to Polychlorinated Biphenyl Congeners in Dielectric Fluids in Use](#) (1014091). Distributions of polychlorinated biphenyl (PCB) congeners in dielectric fluids undergo little or no change over time with normal use in transformers and capacitors, according to analyses presented in this Technical Update. Thus, risk assessors can reasonably assume that used fluid spills have the PCB congener profile (and associated mobility and toxicity) of fresh fluids specified by the manufacturer before these products were banned in the mid-1970s. For more information, contact Mary McLearn, (650) 855-2487, mmclearn@epri.com.

Program 60: EMF Health Assessment and Radio-Frequency Safety

[Visit the EMF Health Assessment and RF Safety Public Webpage](#)

EPRI Sponsors Conference, Leads International TransExpo Study of Childhood Leukemia

As the leader of an international study of childhood leukemia that currently includes eight countries, EPRI sponsored its fourth TransExpo research conference, held in Jerusalem, Israel, on September 6–7 for study participants and invited representatives of countries considering participation. Now in the feasibility assessment stage, TransExpo is a case-control study of leukemia in children who live in apartment buildings with built-in transformers. Measurements in Finish, Hungarian, and Israeli apartments confirm that magnetic fields are significantly higher in apartments located immediately above or next to transformer rooms than in apartments farther away. Researchers can thus identify highly exposed children without access to the building or permission from subjects that could result in selection bias, a type of inadvertent error in epidemiologic studies that might explain the reported association between childhood leukemia and exposure to residential magnetic fields above 0.4 μ T. To ensure adequate statistical power in the TransExpo study, EPRI is currently recruiting more countries to participate. Qualifying countries must have transformers inside apartment

buildings, and reliable cancer and population registries. For more information, contact Gabor Mezei, (650) 855-8908, gmezei@epri.com.

OCCUPATIONAL HEALTH AND SAFETY

Program 62: Occupational Health and Safety

EPRI Invited to Participate in Federal Workshop on Making Green Jobs Safe

As part of the federal initiative on Going Green: Safe and Healthy Jobs, the National Institute for Occupational Safety and Health is hosting a workshop entitled Making Green Jobs Safe, to be held Dec. 14–16 in Washington, DC. The EPRI Occupational Health and Safety program has been asked to participate in the workshop, and Dr. Sharan Campleman will attend. The workshop's purpose is to frame issues related to integrating worker health and safety into green and sustainability processes and efforts. For more information, contact Sharan Campleman, (650) 855-2331, scampleman@epri.com.

EPRI Plans Webinar on Ergonomic Interventions in Fossil-Fueled Power Plants

EPRI has scheduled a webinar for P62 member companies interested in ergonomic interventions for workers in fossil-fueled power plants. "Implementing Ergonomics in Fossil-Fueled Power Plants: Saving Electricians' Health and the Company Money in a Tight Economy" will be held on Oct. 29 at 1 p.m. Eastern/10 a.m. Pacific time. This webinar will focus on how to overcome common obstacles to implementing ergonomic interventions in power plants. It will show how using the tools provided by EPRI—such as the [EPRI Ergonomics Handbook for the Electric Power Industry: Ergonomic Interventions for Electrical Workers in Fossil-Fueled Power Plants](#) (1014042) and an upcoming related DVD—can help company staff put together an effective ergonomics effort. The results can be expected to improve the work environment to prevent injuries and save the company money. For more information, contact Sharan Campleman, (650) 855-2331, scampleman@epri.com.

ENVIRONMENT FEDERAL HIGHLIGHTS (Washington D.C. Office, John Novak)

For more information on the items below, contact John Novak, 202-293-6180, jnovak@epri.com.

Briefings on the Updated Prism/MERGE Analysis

In August and September, EPRI Senior Vice Presidents Mike Howard and Hank Courtright and EPRI staff provided briefings on the 2009 update to the Prism/MERGE analysis to

- the Edison Electric Institute,
- the American Public Power Association,
- the National Rural Electric Cooperative Association, and
- the Electric Power Supply Association.

Briefings were held for House and Senate staff; for the EPA Assistant Administrator, Office of Air and Radiation, Gina McCarthy; and for the FERC General Counsel and staff. The U.S. Energy Agency (affiliated with the World Energy Congress), Resources for the Future, and Troutman Sanders also hosted briefings

National Rural Electric Environmental Association

On Sept. 15, EPRI staff participated in the fall meeting of the National Rural Electric Environmental Association, held at the National Rural Electric Cooperative Association headquarters in Arlington, VA. Jessica Fox participated by phone and gave a presentation on the Ohio River Water Quality Trading Project. John Novak attended in person and provided an update on EPRI CO₂ capture and storage activities.

New Supplemental Project Opportunities

Program 54: Fish Protection at Steam Electric Power Plants

- [Evaluation of Fine-Mesh Traveling Screen Performance in Sediment and Debris-Laden Rivers](#) (1020177)

Program 59 : Power Plant Toxics Characterization

- [Toxic Release Inventory for Power Plants \(LARK-TRIPP\) User's Group 2010](#) (1020333)

Program 91 : Assessment Tools for Ozone, Particulate Matter, Regional Haze and Atmospheric Deposition

- [Environmental and Economic Assessment of a Full Electric Transportation Portfolio](#) (1020216)

For a complete list of all active Environment Supplemental Project Opportunities, click [here](#).

New Marketing Communications

Program 55: Strategic Water Issues: TMDLs, Availability, Climate

- [Advanced Cooling Technology Quarterly Newsletter, June 2009](#), Newsletter (1019619)
- [EPRI's Program on Strategic Water Issues: Selected Publications](#), Fact Sheet (1020259)
- [Ohio River Basin Trading Project – Quarterly Update, Winter and Spring 2009](#), Newsletter (1019619)

Upcoming Events

* denotes EPRI sponsored or cosponsored event

Environment Sector

*** Energy Sustainability Interest Group Webcast**

Oct. 21, 1:00 p.m. Eastern/10:00 a.m. Pacific. Contact: Todd Maki (650) 855-2162, tmaki@epri.com.

*** Energy Sustainability Interest Group Workshop**

Nov. 4–5, Tempe, AZ. Contact: Todd Maki (650) 855-2162, tmaki@epri.com. More information is available at the [event website](#).

*** Environment Sector and Area Council Advisory Meetings**

March 15–18, 2010, Orlando, FL. Contact: Marsha Grossman, (650) 855-8760, mgrossma@epri.com.

Air Quality

8th Annual Community Modeling and Analysis System (CMAS) Conference

Oct. 19–21, Chapel Hill, NC. Contact: Naresh Kumar, (650) 855-8758, nkumar@epri.com. More information is available at the [event website](#).

Air Quality VII Conference

Oct. 25–29, Arlington, VA. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

American Association for Aerosol Research 28th Annual Conference

Oct. 26–30, Minneapolis, MN. Contact: Stephanie Shaw, (650) 855-2353, sshaw@epri.com. More information is available at the [event website](#).

2009 National Ambient Air Monitoring Conference

Nov. 2–5, Nashville, TN. Contact: Stephanie Shaw, (650) 855-2353, sshaw@epri.com. More information is available at the [event website](#).

Society of Environmental Toxicology and Chemistry 30th Annual Meeting

Nov. 19–23, New Orleans, LA. Contact: Sharan Campleman, (650) 855-2331, scampleman@epri.com. More information is available at the [event website](#).

Society for Risk Analysis 2009 Annual Meeting

Dec. 6–9, Baltimore, MD. Contact: Sharan Campleman, (650) 855-2331, scampleman@epri.com. More information is available at the [event website](#).

American Geophysical Union 2009 Fall Meeting

Dec. 14–18, San Francisco, CA. Contact: Stephanie Shaw, (650) 855-2353, sshaw@epri.com. More information is available at the [event website](#).

Power Plant Air Pollutant Control “MEGA” Symposium

Aug. 30–Sept. 2, 2010, Baltimore, MD. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

Land and Groundwater

University of Massachusetts 25th Annual International Conference on Soils, Sediments, and Water

Oct. 19–22, Amherst, MA. Contact: Jeff Clock, (845) 608-0642, jclock@epri.com.

Air Quality VII Conference

Oct. 25–29, Arlington, VA. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

**** Plant Closure, Remediation and Redevelopment—Options, Challenges/Opportunities***

Nov. 12, Astoria, NY. Contact: Jeff Clock, (845) 608-0642, jclock@epri.com. This workshop will convene at a plant anticipating closure in the near future. Participants will review recent closure projects and help to plan an EPRI Interest Group on plant closure. More information is available at the [event website](#).

**** Agricultural Uses of FGD Gypsum***

Nov. 17–19, Indianapolis, IN. Contact: Ken Ladwig, (262) 754-2744, keladwig@epri.com. This workshop is jointly sponsored by EPRI, ACAA, USDA-ARS, EPA, and Southern Company. More information is available at the [event website](#).

**** EPRI MGP 2010 Symposium***

Jan. 27–29, 2010, San Antonio, TX. Contact: Jeff Clock, (845) 608-0642, jclock@epri.com, or Jim Lingle, (414) 355-5559, jlingle@epri.com. EPRI received 83 abstracts and has chosen the most interesting and technically innovative for platform sessions, with the remainder as poster sessions. Tabletop displays will also be included. Please register early since the symposium is likely to be overbooked. More information is available at the [event website](#).

Power Plant Air Pollutant Control “MEGA” Symposium

Aug. 30–Sept. 2, 2010, Baltimore, MD. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

Water and Ecosystems

**** Webcast: Power Plant Utilization of Stormwater***

Oct. 15, 1:00 p.m. Eastern/10:00 a.m. Pacific. Contact: Robert Goldstein, (650) 855-2154, rogoldst@epri.com. For logistics: Katie Vroom, (650) 855-2417, kavroom@epri.com. Open to members of the Water Strategic Issues Program.

*** Webcast: Water Resource Trends and Implications for the Electric Power Industry**

Oct. 22, 1:00 p.m. Eastern/10:00 a.m. Pacific. Contact: Robert Goldstein, (650) 855-2154, rogoldst@epri.com. For logistics: Katie Vroom, (650) 855-2417, kavroom@epri.com. Open to members of the Water Strategic Issues Program.

*** Flue Gas Desulfurization (FGD) Water Discharge Treatment Workshop**

Nov. 9–10, Atlanta, GA. Contact: Paul Chu, (650) 855-2362, pchu@epri.com. More information is available at the [event website](#).

T&D Environmental Issues

Second Scientific Meeting of the Health and Radiofrequencies Foundation

Oct. 20–21, Paris, France. Contact: Gabor Mezei, (650) 855-8908, gmezei@epri.com. More information is available at the [event website](#).

*** Multi Phase Software Training Webcast**

Oct. 29, 1 PM EDT. Contact: Mary McLearn, (650) 855-2487, mmclearn@epri.com. The webcast will offer training on the Multi Phase component of EPRI's Mineral Oil Spill Evaluation System–Multi Phase (MOSES-MP) software. Multi-Phase simulates subsurface movement of oil that may impact groundwater.

International Conference on Electromagnetic Fields, Health and Environment

Nov 17–19, São Paulo, Brazil. Contact: Gabor Mezei, (650) 855-8908, gmezei@epri.com. More information is available at the [event website](#).

Radiofrequency Fields and Health

Nov. 23–25, Stuttgart, Germany. Contact: Gabor Mezei, (650) 855-8908, gmezei@epri.com. This workshop will focus on the special topic, “Radiofrequency Electromagnetic Fields and Brain Physiology—What Is the Connection?” The workshop will summarize state-of-the-science knowledge in the field of biological and health effects of RF-EMF. More information is available at the [event website](#).

*** Arsenic Working Group**

Dec. 3, Pensacola, FL. Contact: Mary McLearn, (650) 855-2487, mmclearn@epri.com. Simultaneous audio broadcast of the meeting will be available.

Occupational Health and Safety

Webinar: Implementing Ergonomics in Fossil-Fueled Power Plants: Saving Electricians' Health and the Company Money in a Tight Economy

Oct. 29, 1 p.m. Eastern/10 a.m. Pacific. Contact: Sharan Campleman, (650) 855-2331, scampleman@epri.com.

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