



September 19–21, 2005  
Marriott Crystal Gateway  
Arlington, VA

### Conference Overview

The Air Quality Conference is a leading forum for reviewing the current state of science and policy on the pollutants mercury, trace elements, SO<sub>3</sub>, and particulate matter in the environment. The conference will focus on air quality impacts on policy, health and ecosystems, emission prevention and control, measurement methods, and atmospheric reactions and modeling.

**English is the official language of this conference.**

### Who Should Attend

The Air Quality Conference provides an excellent opportunity for representatives from industry, environmental groups, the research community, and state and federal government to present and discuss critical issues facing our nation and the world. Conference participants will gain up-to-date information and benefit from discussions on potential health risks, available and developing control technologies, control strategies and research needs, and current and pending regulatory policies.

### Format

Air Quality V will provide two streams of oral presentations: one focusing on mercury issues and one focusing on trace elements, particulate matter, and SO<sub>3</sub>. A poster session will include topics from both streams.

Further information regarding the Air Quality V Conference or information from the first four Air Quality Conferences can be obtained at:

[www.undeerc.org](http://www.undeerc.org)

### Call for Exhibitors and Sponsors

A limited number of 8' x 10' exhibit spaces are available to vendors. Exhibits will be held in the break and social area. Available space will be released on a first-come, first-served basis.

In addition to the sponsors listed on the cover, conference organizers are providing an opportunity for other organizations to sponsor and support the Air Quality V Conference.

To receive more information regarding exhibiting or to learn more about the benefits and opportunities of becoming a sponsor, please check our Web site at [www.undeerc.org](http://www.undeerc.org) or contact Deb Haley at (701) 777-3120.



## Call for Papers

Air Quality V will consist of the following sessions:

### Stream A: Mercury

- A1 – Policy and Regulations
- A2 – Health Issues
- A3 – Measurement
- A4 – Control
- A5 – Transformation, Plume and Atmospheric Reactions, and Modeling
- A6 – Mercury and Coal Utilization By-Products
- A7 – Advanced Power Systems
- A8 – Other Related Topics

### Stream B: Trace Elements, SO<sub>3</sub>, and Particulate Matter

- B1 – Health Issues
- B2 – Policy and Regulations
- B3 – Control
- B4 – Transport, Atmospheric Chemistry, and Modeling
- B5 – Issues in the Oil and Natural Gas Industry
- B6 – Measurement
- B7 – SO<sub>3</sub>
- B8 – Other Related Topics

### Abstract Submittal

Please submit a one-page abstract that includes the following required information:

- Related session code (from list above)
- Poster or paper preference
- Name, title, company, address, phone, fax, and e-mail for presenting author
- Names, companies, cities, and states for coauthors
- Biographical sketch for presenting author
- Presenting author's preferred form of correspondence: mail, fax, or e-mail

The presenting author must provide the above information and is the person to whom all correspondence will be sent and who must meet the deadlines and obligations of the conference, which include giving a presentation at the 2005 conference, submitting a manuscript, and paying a conference fee.

The presenting author is eligible for a reduced registration fee. There is no reimbursement for time spent, for expenses incurred in preparing manuscripts and illustrations, or for transportation to and expenses at the conference.

Notification of acceptance will be made by May 16, 2005. A manuscript (not to exceed 10 pages in length, with illustrations) for inclusion in the proceedings and for distribution on CD-ROM is required by August 15, 2005. Instructions for preparation of manuscripts will be sent with letters of acceptance. Presentations will be scheduled in technical and/or poster sessions as determined by the Conference Committee.

### Deadline for Abstract Submittal: February 1, 2005

E-mail abstracts to: [afiala@undeerc.org](mailto:afiala@undeerc.org) or  
Mail abstract on disk to:

Anne Fiala  
Energy & Environmental Research Center  
PO Box 9018 (overnight mail address: 15 North 23rd Street)  
Grand Forks, ND 58202-9018 (overnight mail zip: 58203)

**Direct any questions to Anne Fiala at (701) 777-3119.**



Watch for the upcoming brochure with further information!

## Join Us for Air Quality VI!

### Organizations in Attendance at Air Quality IV

- |   |   |   |
|---|---|---|
| ADA-Environmental Solutions, LLC                      | Hamon Research-Cottrell   | Sandia National Laboratories  |
| Advanced Technology Systems, Inc.                     | Hill & Associates, Inc.   | Sasol Technology  |
| AIR Daily   | Hitachi Zosen Corporation   | SCANA Corporation   |
| Alcoa   | Horiba Instruments, Inc.  | Science Applications International Corporation                                      |
| Alliant Energy  | Idaho National Engineering and Environmental Laboratory                             | SCR-Tech LLC  |
| Alstom Power  | Idemitsu Kosan Co. Ltd.   | Sensor Research & Development Corporation   |
| Amended Silicates, LLC                                | Illinois Department of Commerce and Economic Opportunity Office of Coal Development | Separation Technologies, Inc.   |
| American Chemical Society                             | Inside Energy   | Sherwin Alumina, L.P.   |
| American Electric Power                               | Institute of Clean Air Companies  | SICK MAIHIK, Inc.   |
| American Public Power Association (APPA)              | Johns Hopkins University  | Sierra Southwest Cooperative Services, Inc.   |
| Apogee Scientific, Inc.                               | J-POWER (Electric Power Development Company, Ltd.)                                  | Sorbent Technologies Corporation  |
| ARCADIS   | KEMA Power Generation & Sustainables  | South Carolina Electric and Gas Company   |
| Argonne National Laboratory                           | KFz Inc.  | Southern Company  |
| ATCO Power Canada Ltd.                                | Kinectrics Inc.   | Southern Environmental, Inc.  |
| Atmospheric and Environmental Research, Inc. (AER)    | KOPEC   | Southern Research Institute   |
| Babcock Power Environmental, Inc.                     | Lehigh University   | Spectra Gases, Inc.   |
| Babcock & Wilcox                                      | Lignite Energy Council  | State of Michigan   |
| Baldwin, Inc.   | Lovelace Respiratory Research Institute   | Stone & Webster   |
| Barr Engineering Company                              | Luscar Ltd.   | STORM Coalition   |
| Basin Electric Power Cooperative                      | Massachusetts Department of Environmental Protection                                | Sunflower Electric Power Corporation  |
| BCS Incorporated                                      | M&C Products  | Technology Management Associates, Inc.  |
| Black & Veatch  | METCO Environmental   | Tekran, Inc.  |
| BP  | Minnesota Power   | Tennessee Valley Authority  |
| Brookhaven National Laboratory                        | Minot Area Development Corporation  | Texas A&M University-Kingsville   |
| CANMET Energy Technology Centre - Ottawa              | M.J. Bradley & Associates   | Thermo Electron Corporation   |
| Carnegie Mellon University                            | Mobotec USA, Inc.   | Tondu Corporation   |
| CDEM Holland BV                                       | MSE Technology Applications, Inc.   | Troutman Sanders LLP  |
| CEED  | MSP Corporation   | TXU   |
| Central Research Institute of Electric Power Industry | N.S. Harding & Associates   | UniField Engineering, Inc.  |
| CH2M HILL   | National Wildlife Federation  | United States Gypsum Company  |
| Cinergy   | National Institute of Standards and Technology                                      | University of Kentucky  |
| Cleco   | National Oceanic and Atmospheric Administration                                     | University of Maryland  |
| Codan Development LLC                                 | National Park Service - Shenandoah National Park                                    | University of North Dakota  |
| CONSOL Energy Inc.                                    | Natural Resources Canada  | University of Stuttgart   |
| Constellation Energy Group                            | Nippon Instruments Corporation  | University of Utah  |
| Consumers Energy                                      | NORIT Americas Inc.   | URS Corporation   |
| Cormetech, Inc.                                       | North American Coal Corporation - The Falkirk Mining Company                        | U.S. Department of Energy National Energy Technology Laboratory                     |
| Croll-Reynolds Clean Air Technologies                 | North Carolina Department of Environment and Natural Resources                      | U.S. Environmental Protection Agency  |
| Dayton Power & Light Company                          | Northeast Generation Services   | U.S. Geological Survey  |
| Department of Environment and Natural Resources       | Oglethorpe Power Corporation  | U.S. House of Representatives   |
| Desert Research Institute                             | Ohio State University   | U.S. Senate   |
| Donau Carbon Corporation                              | OhioLumex Company   | Utah Geological Survey  |
| Duke Energy   | Ontario Power Generation  | Virginia Polytechnic Institute and State University - Alexandria Research Institute |
| Edison Electric Institute                             | Otter Tail Power Company  | Vosteen Consulting GmbH   |
| Electric Energy                                       | Pace University   | Washington Group International  |
| Enel Produzione Ricerca                               | PacifiCorp - Jim Bridger Plant  | Western Kentucky University   |
| Enerfab   | Pierre et Marie Curie University  | Weston Solutions, Inc.  |
| Energy & Environmental Research Center                | Platts/McGraw-Hill  | Wind River Environmental Group LLC  |
| Energy Research Center                                | POWER Magazine  | W.Energies  |
| ENSR International                                    | Powergen UK plc   | W.L. Gore & Associates, Inc.  |
| Entergy   | Powerspan Corporation   | Xcel Energy   |
| Environment Canada                                    | PS Analytical Ltd.  |   |
| Environmental Systems Corporation                     | Public Service Enterprise Group   |   |
| EnviroScrub Technologies Corporation                  | Queenstake Resources USA, Inc.  |   |
| E.ON Engineering                                      | Reaction Engineering International  |   |
| EPCOR   | Rheinbraun Brennstoff GmbH  |   |
| EPRI  | RJ Lee Group  |   |
| Etaa Energy, Inc.                                     | RMB Consulting and Research   |   |
| Florida Power and Light                               | Robert L. Hershey, P.E.   |   |
| Fluent Inc.   | Rupprecht & Patashnick Co., Inc.  |   |
| Fredrikson & Byron, P.A.                              |   |   |
| GE EER  |   |   |
| GE KVB-EnerTech                                       |   |   |
| Georgia Institute of Technology                       |   |   |
| Great River Energy                                    |   |   |



## Technical Directors

If you have any questions regarding the technical content of the conference, please contact one of the individuals listed below:

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## Event Coordinators

### Deb Haley

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## Comments from Prior Air Quality Attendees

*"Another stimulating conference addressing today's most pressing air quality issues."  
– Dan Battleson, MSE – Technology Applications*

*"This has been a class act showing the best can be done! Outstanding conference."  
– Paul Groble, Department of Environment and Natural Resources*

*"Informative, challenging, and controversial material. Cutting-edge, with several options presented. Shows importance of research and development."  
– Anna Tilman, STORM Coalition*

*"This conference is by far the best I have attended as a professional. It provided important information to be used in performing my job duties. I look forward to attending this conference in the future. Keep up the good work!"  
– Daniel Adams, We Energies*

*"This conference was extremely cost-effective and productive based on the high level of information that was provided, timeliness of the information, and the quality of the presenters."  
– Jay Ratafia-Brown, Science Applications International Corporation*

*"Clearly the best conference I attend that balances policy and technical discussions."  
– Douglas G. McKinney, U.S. Environmental Protection Agency*

*"Whether you're a policy maker or a plant engineer, this conference is a "one-stop shop" for air quality-related information."  
– Malcolm Boyd, ATCO Power*

*"[This] conference [provides ideas] for foreign participants concerning environmental policy in the United States, helping them to propose similar solutions in their countries and gives [participants the] perfect opportunity to learn about recent developments in analytical and control methods."  
– A.G. Chmielewski, Institute of Nuclear Chemistry and Technology – Poland*

Abstracts Due  
February 1, 2005

Energy & Environmental Research Center  
University of North Dakota  
15 North 23rd Street  
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Grand Forks, ND 58202-9018 USA



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International Conference on

CALL FOR PAPERS

International Conference on

**Air Quality**

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Organized and Sponsored by:  
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National Center for Environmental Research

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