

PARTICULARS

Newsletter of the American Association for Aerosol Research

Winter 2008

Welcome to another edition of *Particulars*!



First, a big “thank you” to Katharine Moore for her past leadership on *Particulars* and for being there in Reno at the Annual Meeting this year to start the 2007-2008 newsletter season while I was detained by an ankle injury.

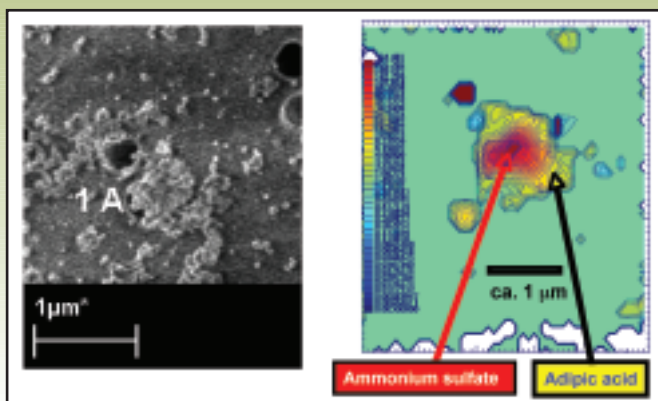
As the snow flies here in Vermont (and the skiing is great this year!) it is exciting to think about how much “science,” in its broadest sense, has been in the national news this year. The most obvious example is global climate change – it is on everyone’s mind with its wide-ranging effects on all human and natural activities. Let us hope that our future brings wiser decision-making at all levels, household to country to continent; more frequent compromising for the benefit of all at the expense of a few; and human action plans that will ultimately lead to long-term sustainable gains across the entire planet.

Aerosols in the Spotlight

Ammonium sulfate is a common atmospheric aerosol species, often mixed with organics, here with adipic acid in the laboratory. To investigate the mixing within such particles the new X-Ray spectro-microscopy at Swiss Light Source (SLS, Switzerland) was used. This technique allows a spatial resolution of about 40 nm and spectroscopic analysis of the chemical environment of oxygen and carbon compounds.

For more information about SLS, see www.psi.ch/medien/medien_news_e.shtml.

Courtesy of T. Huthwelker, A. Weber, S. Sjogren, PSI, Switzerland.



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President's Message

Chris Sorensen
President

Greetings from ice-bound Manhattan, Kansas where half the population is still without power three days after a freezing aqueous aerosol.

There is much good to report about the AAAR. First, the Reno meeting was quite successful with nearly 800 attendees, about 600 papers presented, 475 tutorial participants and 20 vendors presenting their wares. It was a financial success as well. Bill Nazaroff and his conference committee are busy preparing for AAAR 2008 in Orlando, FL. Among other things, Bill is working on an outstanding slate of plenary lecturers. The venue will be the new Rosen Shingle Creek Resort and Golf Club. This will be our first visit to this hotel, but not our last since this is the first year of a nine year cycle in which we will sequentially go to Orlando and the Rosen, then Minneapolis, MN and then Portland, OR. This rotation will help us in many ways such as the hotels getting to know us and thus provide us with better service, and saving us the time, effort and expense of looking for meeting sites. Be sure to mark your calendars for October, 20 to 24, 2008.

The passage of time is marked by change and AAAR is not immune. Rick Flagan is stepping down as Editor in Chief of our journal *Aerosol Science & Technology* after more than four years at the post. Rick has done an excellent job as EIC (no surprise). The new EIC will be Peter McMurray who will assume the role in May 2008. Pete has assembled a team of eight associate editors from the US, Europe, and Asia who will be responsible for manuscripts in their areas of specialty.

There are a number of other exciting changes in the works. A new initiative to have student chapters at universities has caught on with the formation of six such chapters at Carnegie Mellon, Cincinnati, Colorado State, Maryland, Washington in St. Louis, and Yale. To help their activities, AAAR provides funding of \$250 per year. There is certainly funding for more of these which I encourage with enthusiasm. This is the first year of this program and I am excited about what these chapters will do and stimulate. In a similar vein, Andrea Ferro, Lupita Montoya, and Cliff Davidson are working on a young faculty workshop for the next AAAR meeting. The idea here is to advise young scientist/engineers to get their careers going. The pattern here is obvious, AAAR invests in our young members as they are the future of both AAAR and aerosol science in general. Other major activities I and your friendly Board of Directors are working on are starting an endowment program by which people can leave money to AAAR. We have also called for the first round of nominations for the AAAR Fellows to acknowledge members who have made sustained and substantial contributions to aerosol science and the AAAR. These Fellows will be announced at AAAR 2008. Another important issue is the terrific sponsorship support we have had the past few years. We are working on formalizing some of these relationships for long term support. This involves specifying what AAAR can do in return for support and establishing better connections between academics, industry, and government labs.

Let me leave you with the thought that we are a small society with a big impact run by our members. Therefore I encourage you to get involved, even if you have never seen yourself as a public person (Hey, we're a bunch of scientists and engineers!). Both the society and you will be the better for it.

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COMING EVENTS 2008**March 10-14, 2008****Darmstadt, Germany**

Spring Meeting of the German Physical Society - Environmental Physics Association

April 9-10, 2008**Leeds, UK**

Second Aerosol Mass Spectrometry Workshop

April 13-18, 2008**Vienna, Austria**

European Geosciences Union - 5th General Assembly

May 1-3, 2008**Saarbrücken, Germany**

Bunsentagung 2008

April 28- May 2, 2008**Moab, Utah, USA**

Aerosol and Atmospheric Optics: Visual Air Quality and Radiation,

June 23-27, 2008**Columbus, Ohio USA**

63rd OSU International Symposium on Molecular Spectroscopy

June 16-20, 2008**Valladolid, Spain**

19th International Conference on Spectral Line Shapes

June 16-17, 2008**Graz, Austria**

17th International Symposium "Transport and Air Pollution"

June 22-27, 2008**Holderness School, Plymouth, NH, USA**

Gordon Research Conference "Environmental Sciences: Water"

July 7-11, 2008**Cancun, Mexico**

15th International Conference on Clouds and Precipitation

July 27 - August 1, 2008**Holderness School,****Plymouth, NH, USA**

Gordon Research Conference "Water and Aqueous Solutions"

August 12-14, 2008**Berkeley, California, USA**

Ninth International Conference on Carbonaceous Particles in the Atmosphere

August 23-28, 2008**St. Petersburg, Russia**

European Conference on Dynamics of Molecular Systems (MOLEC XVII)

August 24-29, 2008**Thessaloniki, Greece**

European Aerosol Conference 2008

August 27-29, 2008**Edinburgh, UK**

Faraday Discussion 141: Water - From Interfaces to the Bulk

September 1-5, 2008**Bologna, Italy**

SPARC 4th General Assembly

September 2-6, 2008**Prague, Czech Republic**

20th International Conference on High Resolution Molecular Spectroscopy

September 6-10, 2008**Zurich, Switzerland**

Latsis-Symposium "Intramolecular Dynamics, Symmetry and Spectroscopy"

September 7-12, 2008**Annecy, France**

IGAC Science Conference "Bridging the Scales in Atmospheric Chemistry: Local to Global"

September 7-12, 2008**Aussois, France**

Gordon Research Conference "Molecular and Ionic Clusters"

October 20-24, 2008**Rosen Shingle Creek Resort and Golf Club****Orlando, FL, USA**

AAAR 27th Annual Conference

December 15-19, 2008**San Francisco, CA, USA**

Fall Meeting of the American Geophysical Union,

“In Case You Missed It”

Regional Sources Major Cause of Urban Particulate Pollution

A recent paper by Chin et al. (*Atmospheric Chemistry and Physics*, 21, 5501) estimates that most ground-level particulate pollution in the United States comes from regional North American sources and only a small amount is transported from other parts of the world. The study estimates that between 65-70 percent of surface particulate matter in the eastern U.S. originates from regional pollution aerosols from fuel combustion in North America. The study also found that 30-40 percent of fine particulates in the western U.S. come from local pollution sources. The model results estimated that just 2-6 percent of U.S. surface fine particulates come from fuel combustion particles emitted outside of North America, including Asia and Europe. About 50 percent of surface fine particulate matter in the western U.S. stems from natural sources: dust transported from Asia or from local deserts and organic aerosols from vegetation. According to this study, controlling regional pollution emissions will be the most effective way to manage U.S. air quality.

Organic Aerosol Evolution


Robinson et al. (*Science*, 315, 1259-1262, 2007) combine observations and models to show that the life histories of organic aerosols are quite complex and that large numbers of those particles have gone through a cycle of evaporation, photooxidation, and recondensation. Thus far, most urban organic aerosols have been thought to be primary in nature. Existing theories of organic aerosol distributions, while in many cases matching observations fairly well, may often be getting the right answers by chance. This improved understanding of organic aerosol behavior could lead to important changes in measurement methods and emission regulations of organic aerosols.

Global Warming Amplified by Brown Cloud

Ramathan et al. (*Nature*, 448(2), 2007) report observations from the Maldives Autonomous unmanned aerial vehicle Campaign (MAC) in the Indian Ocean. The authors argue that atmospheric brown clouds enhanced lower atmospheric solar heating by about 50 percent. Simulation results from their general circulation model suggest that atmospheric brown clouds contribute to regional lower atmospheric warming trends as much as the recent increase in anthropogenic greenhouse gases. The authors propose that the combined warming trend of 0.25 K per decade may be sufficient to account for the observed retreat of the Himalayan glaciers.

Aerosols and Hydrological Cycle

Trenberth and Dai (*Geophys. Res. Lett.* 34, L15702) show that the massive quantity of aerosols emitted by the eruption of Mount Pinatubo in 1991 led to a remarkable slowing of Earth's hydrologic cycle. Examining precipitation and streamflow records from 1950 to 2004 for the effects of volcanic eruptions from El Chichón (March 1982) and Pinatubo (June 1991), they show that 1992 was deficient in both precipitation over land and streamflow to a degree unseen in 55 years of records. Possibly explained as the result of reduced incoming solar radiation leading to reduced evaporation, the authors caution against 'geoengineering' projects that have been proposed to offset greenhouse warming. Geoengineering projects intended to reduce the amount of incoming solar radiation by injecting large amounts of aerosols to emulate volcanic eruptions, the authors warn, may have similar unintended consequences.



Conference Update

Jay Turner

2007 AAAR Conference Chair

The Association's 26th annual stampede was held last September 24-28 in Reno, spreading out our bedrolls at the Grand Sierra Resort. The round-up started with a slate of 15 tutorials; 175 persons registered for one-or-more tutorials which had a cumulative attendance of nearly 400. During the subsequent four days there were more than 300 platform presentations and nearly 400 poster presentations with a total stock of 768 registered attendees. As is the tradition of AAAR, the technical program was the core attraction and provided opportunities for both greenhorns and seasoned cowhands to advance their understanding of our ever-evolving field.



Following each day's morning chuck, we took in excellent plenary presentations delivered by Dan Murphy (Single Particle Analysis All the Way Up to the Stratosphere), John Patton (Inhaled Insulin and the Marvelous New Innovations in Aerosol Medicines), Paul Ziemann (The Devil is in the Details: On the Role of Molecular Structure in Secondary Organic Aerosol Chemistry) and Samy El-Shall (Clusters, Nucleation and Nanoparticles: Connecting the Dots). Three special symposia were convened – Aerosols, Clouds and Climate, Innovations in Medicinal Particle and Aerosol Science, and Advances in Instrumentation for Organic Aerosols.

The 20 registered exhibitors showed us their finest stock, and the Desert Research Institute took us off the ranch for tours of their environmental analysis facility, source characterization laboratory, organic analytical laboratory, and the Dorothy Gallagher Great Basin Environmental Research Laboratory.

On behalf of AAAR, I gratefully acknowledge the wranglers of the Association Headquarters (AH) staff; Abstracts Committee, Conference Committee, and Technical Program Committee members; and special symposia conveners and session chairs for their contributions.

We are indebted to our conference sponsors which included NASA (Platinum); U.S. Army Research Office (Gold); TSI Inc. (Silver); California Air Resources Board (Bronze); and Aerodyne Research Inc., Cabot Corporation, and Quant Technologies (Supporting).

Next stop on the rodeo circuit is Orlando with Bill Nazaroff orchestrating the drive.

AAAR Would Like to Welcome the Following New Members:

*denotes student member

- Viviana Acevedo-Bolton***, Stanford University
Harshit Agrawal*, University of California, Riverside
Bastien Albriet, ENPC
Brian Ament, Nektar Therapeutics
Bret Anderson, US EPA
Jean Andino, Arizona State University
Michael Anisimov, Institute of Chemical Kinetics and Combustion SB RAS
Lyubov Anisimova*, SUNY Binghamton University
Andrew Ault*, University of California, San Diego
Neal Baker, Johns Hopkins University
George Ban-weiss*, University of California, Berkeley
Donifan Barahona*, Georgia Institute of Technology
Chris Bare, Johns Hopkins University
Rebecca Barthelmie, Indiana University
Timothy Barzyk, US EPA
Kelly Brinkley, Johns Hopkins University
Nancy Brown, Lawrence Berkeley Lab
William Brune, Pennsylvania State University
Thomas Poen Hoen Budiman, TSE Systems GMBH
Jeremy Cain*, University of Southern California
Gerard Capes*, University of Manchester
Gianni Caravaggio, NRCAN CETC-Ottawa
Purnendu Chakraborty*, University of Maryland
Arthur Chan*, California Institute of Technology
Santosh Chandru*, Georgia Institute of Technology
Wayne Chang*, University of California, Irvine
Gao Chen, NASA-Langley
Qi Chen*, Harvard University
Yu-Cheng Chen*, National Cheng Kung University
Fang-Yi Cheng, University of Houston
Puneet Chhabra*, California Institute of Technology
Gangnam Cho*, Gwangju Institute of Science and Technology
Steven Cliff, University of California, Davis
Alexander Cohan*, University of California, Irvine
Edouard Debry, CERE
Olivier Delhomme*, CNRS/ULP
Frank Digenova, Sierra Research
Xiang Ding, Georgia Institute of Technology
Melanie Doyle, Lovelace Respiratory Research Institute
Stephen Drake*, Texas A&M University
Praney Dubey*, Clarkson University
Mikael Ehn*, University of Helsinki
Jennifer Ehrhardt*, Clarkson University
Samy El-Shall, Virginia Commonwealth University
Johann Engelbrecht, Desert Research Institute
Robert Eninger*, University of Cincinnati
Scott Epstein*, Carnegie Mellon University
Kazunobu Eryu*, Kanazawa University
Salvatore Farina*, Carnegie Mellon University
Delphine Farmer, University of Colorado-Boulder
Brian Frank, NYS Dept of Environmental Conservation
James Frazier, Divining Technologies
Patricia Fritz*, Rensselaer Polytechnic Institute
Cha-Chen Fung*, University of California, Los Angeles
Harmony Gates*, California Institute of Technology
Terence Ghee, NAVAIR
Kathy Gill, Air Resources Board
Elisabeth Gilmore*, Carnegie Mellon University
Ian Gilmour, US EPA
Rasa Grivicke*, Washington State University
Madhu Gyawali*, University of Nevada, Reno
Odelle Hadley*, Scripps Institution of Oceanography
Walter Ham*, University of California, Davis
Young Ji Han, Kangwon National University
James Hanley, RTI International
Lindsay Hatch*, University of California, San Diego
Leila Hawkins*, Scripps Institution of Oceanography
Harmonie Hawley*, Rutgers University
Meilu He*, Clarkson University
Jack Heller, Charles Henry, Colorado State University
Joshua Herron, Space Dynamics Lab
David Hesse, Battelle Memorial Institute
Lea Hildebrandt*, Carnegie Mellon University
Jason Hill, RTI International
Silke Hings, Boston College
Mark Hixson*, University of California, Davis
Kim Yong Ho*, Pusan National University
Amanda Holden*, Colorado State University
Christopher Hollars, Midwest Research Institute
Jason Holm*, University of Minnesota
Heather Holmes*, University of Utah
Shamia Hoque*, Drexel University
Allen Q. Howard, Jr., Utah State University
Shaohua Hu, University of Southern California
Jianlin Hu*, University of California, Davis
Jong-Bae Huh*, Seoul National University
James Hutchings*, Arizona State University
Grace Hwang, MITRE
Yuling Jia*, Rice University
Xingmao Jiang, Lovelace Respiratory Research Institute
Hafliði Jonsson, CIRPAS/NPS
Hector Jorquera, Pontificia Universidad Católica de Chile
Jinhee Jung*, Kangwon National University
Heikki Junninen*, University of Helsinki
Alexei Khalizov, Texas A&M University
Hyun-Sun Kim*, Seoul National University
Jong Kim*, Yonsei University
Kye-Seon Kim*, Seoul National University
Woojin Kim*, KAIST
Steven Kochevar, Particle Measuring Systems
John Kolivosky, US Army
Evangelia Kostenidou*, University of Patras
Boris Krasovitev, Ben-Gurion University of the Negev
David Kryak, US EPA
Andreas Kuerten*, California Institute of Technology
Alan Kwan*, California Institute of Technology
Jeonghoon Lee, Brookhaven National Laboratory
Byong Hyeok Lee*, Carnegie Mellon University
KwangSung Lee*, Pusan National University
SeungHoon Lee*, KyungSung University
Yi-Lien Lee*, Graduate Institute of Public Health
Yunha Lee*, Carnegie Mellon University
Ezra Levin*, Colorado State University
Kristin Lewis, University of Nevada, Reno
Zheng Li, North Carolina State University
Jingmin Li*, Nagoya University
Ching-Ho Lin, Fooyin University
Ming-Yeng Lin*, Duke University
Yong Liu, Pacific Northwest National Laboratory
Julie Lloyd*, University of Delaware
Raimar Loebenberg, University of Alberta
Giovanni Lonati, Politecnico Di Milano
Yilin Ma, US EPA
Laura Mack*, Colorado State University
Randy Martin, Utah State University
Paola Massoli, CIRES / NOAA
Andrew May*, Clarkson University
Kyle McElhoney*, Siena College
Conor McGrath, British American Tobacco
Maygan McGuire*, University of Toronto
Peter McKinney, Strion Air
Andrew Metcalf*, California Institute of Technology
Charles Miller, US EPA
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Maurice Millet, University of Strasbourg I/CNRS
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Leah Mitchell*, Lovelace Respiratory Research Institute
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Pamela Murowchick, Alburty Lab
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Saho Osone*, Kanazawa University
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Songeeta Palchaudhuri*, MITRE Corporation
Jiyeon Park*, Gwangju Institute of Science and Technology
John Patton, Nektar Therapeutics
Dwane Paulsen, Physical Sciences, Inc.
John Pettibone*, University of Iowa
Chin Phuah*, University of California, Davis

New Members (continued)

*denotes student member

Laurent Poulain, Leibniz Institute for Tropospheric Research
 Derek Price*, Utah State University
 Noenne Prisle*, University of Copenhagen
 Li Qi*, University of California, Riverside
 Jason Quizon, JHUAPL
 Minna Rantamäki, Finnish Meteorological Institute
 Kent Redwine, US Army
 Paul Rieger, California Air Resources Board
 Christoph Roden*, University of Illinois at Urbana Champaign
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 Feng-Ta Tsai*, Kaohsiung Medical University
 Nabin Upadhyay*, Arizona State University
 Prabodh Varanasi, SC Johnson
 Alan Vette, U.S. EPA
 Katherine Wade, Sonoma Technology, Inc.
 Fang Wang, National Institute of Standards and Technology
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 Alla Zelenyuk, Pacific Northwest National Laboratory
 Renyi Zhang, Texas A & M University
 Guan Zhao*, Clarkson University
 Joey Zhou, US Army

Who's Who at the AAAR Office

AAAR staff is here to help with any and all questions you may have on the association, benefits, dues, the annual conference and more. Office hours are Monday - Friday 8:30 AM - 5:00 PM (EST). Phone calls and e-mails are typically answered within 24 hours.

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AAAR JOB POSTINGS

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The Duke Human Vaccine Institute

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Engineering and the Laboratory for
Atmospheric Research (LAR) at
Washington State University

Regional Sales Manager

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Biologist - Aerosol Scientist

ITT Advanced Engineering
and Sciences
Technology and Sensor Sciences
Laboratories in Alexandria, VA

Aerosol Scientist

EG&G Technical Services, Inc.

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Department of Aerospace and
Mechanical Engineering

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Research and the Purdue Climate
Change Research Center (PCCRC), the
College of Science and the College of
Agriculture

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Engineering at Rice University

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Engineering Mgr

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Post Doctoral Researcher

The University of Iowa

Aerosol Scientist

Johns Hopkins University Applied
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Light Scattering - Aerosol Characterization – Biopolymer Scientist

ClearPoint Resources Scientific

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Rutgers University
Research Associate, Civil &
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Postdoctoral Researcher

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AAAR 27TH ANNUAL CONFERENCE

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