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# PARTICULARS

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Spring 2000

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## AAAR 2000

# Conference Program Continues Traditions of Excellence

By **Sonia M. Kreidenweis, Conference Chair**

AAAR 2000, to be held in the superb Adam's Mark Hotel in downtown St. Louis, Missouri, from November 6-10, is shaping up to be one of AAAR's all-around top conferences. Our venue, the Adam's Mark, boasts excellent meeting rooms, a range of amenities including top restaurants and an indoor pool, and a downtown location within easy walking distance of the landmark Gateway Arch and the Old St. Louis Waterfront lined with restaurants, cafes and clubs. It's not too early to call in your room reservation (314-241-7400 or 800-444-2326; ask for the AAAR conference rates).

The Conference Program for 2000 reflects our commitment to continue AAAR's long-standing tradition of high-quality presentations, cutting-edge tutorials and special programs, and opportunities for networking with colleagues from the international community. Response to the Call for Papers for AAAR 2000 has been exceptional, and an outstanding Technical Program is currently being assembled by the Conference Committee. We've also instituted some new ideas for this year in response to our members' input, and we look forward to your participation and feedback. A Preliminary Conference Agenda appears in this issue; highlights of the week are:

### **Exhibits Conference**

o Our *Exhibits Conference* will be an exciting opportunity to learn about the latest in particle detection and measurement techniques and instrumentation. Bernie Greenspan, Exhibits Conference Chair, has recruited an exciting slate of Exhibitors with a broad range of aerosol-related applications (see <http://www.aaar.org/00exhlst.htm> for a current list, which is continuing to evolve).

We have reserved a spacious ballroom in the Adam's Mark where the exhibits and posters will be co-located (see the layout at the above web site), and we will serve complimentary morning coffee there before the start of each day's technical program. The Exhibits will be open and

staffed with knowledgeable representatives each morning during that time, during late morning / midday Tuesday through Thursday, and, of course, during the traditional *Exhibitors' Reception* Tuesday evening.

## Plenary Speakers

o I am very pleased to announce that the following distinguished speakers, representing four areas in the AAAR membership's broad range of interests, have accepted invitations to participate in our *Plenary Program*. In alphabetical order, they are:

- Dr. Patrick McCormick, Hampton University, "Aerosol Measurements by Spaceborne Lidar: The Next Generation of Remote Sensors";
- Dr. Daniel Rosner, Yale University, "Aerosol Reaction Engineering: Measuring and Modeling the Performance of Combustion-Synthesized Nano-particle Reactors";
- Dr. Jonathan Samet, Johns Hopkins University, "Particulate Air Pollution and Health: Setting a National Research Agenda";
- Dr. Edward Stuebing, US Army Edgewood Chemical Biological Center, "Aerosol Science in Biowarfare and Bioterrorism."

## Tutorials Program

o Tutorials Program Chair Gurumurthy Ramachandran has done an outstanding job developing this year's *Tutorials Program*. We will have sixteen offerings in areas as diverse as basic aerosol physics, advances in health-related aerosols, and exciting new aerosol measurement techniques. Please see the Preliminary Conference Agenda in this issue for a complete listing, and plan on taking advantage of this wonderful opportunity for learning from these leaders in their fields.

## Student Program

o Our *Student Program* offers opportunities to meet other students, network with other aerosol researchers, apply for special travel grants, and participate in working at tutorials and sessions. Applications for Student Travel Grants and for Student Assistant positions are included in this issue. Student Program Chair Donald Dabdub is working with Connie Brock at the Management office on student activities. Contact Connie for additional information at 513-742-2227; e-mail: [cbrock@acgih.org](mailto:cbrock@acgih.org).

## Technical Program

o The heart of the annual meeting, our *Technical Program*, will comprise platform and poster presentations in the wide range of topics in which our members are involved. In addition to the regular Program spearheaded by our Working Groups, three special Symposia have been organized:

- Respiratory Dose Estimation of Inhaled Particles: Advances in Experiment and Theoretical Modeling.

- Aerosols in Semiconductor Manufacturing: From Materials Processing to Microcontamination.
- Dynamics and Effects of Organic Aerosols in the Atmosphere.

The Symposia promise to be exciting forums for hearing about the latest developments in these important areas. Please note that two of the Symposia were supported through the AAAR "*Special Initiatives*" Program — and consider developing your own ideas for a future meeting through this mechanism (see <http://www.aaar.org> for information and deadlines).

## **Poster Sessions**

o We will have two *Poster Sessions* that will provide excellent opportunities for scientific and social interactions with colleagues. The first will be held Tuesday evening in conjunction with the Exhibitors' Reception. The second session will be held midday on Thursday, again in conjunction with an Exhibits session, and will feature a complimentary lunch for registered members.

## **Awards Luncheon**

o We hope to see you all at the *Awards Luncheon* on Wednesday, where we will honor this year's recipients of AAAR's prestigious honors and prizes. Please note that we are featuring a special discounted student rate and we encourage all of our student members to participate!

## **Working Group Meetings**

o And finally, don't forget to plan for one of AAAR's most important activities: the *Working Group Meetings*, to be held on Wednesday afternoon. Everyone is encouraged to join a Working Group, meet colleagues with similar interests, and get involved in the program planning process for 2001. See <http://www.aaar.org/whoswho.htm>) for a list of the Working Groups and contact information.

So that the many recreational, dining and club experiences St. Louis has to offer can be enjoyed, we've arranged the week's program to provide several free evenings for sampling the city's nightlife. AAAR 2000 promises a full and busy program of the latest in aerosol research and science, in a great location. See you in St. Louis in November!

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## **President's Message**

# **The Great Things About AAAR Will Get Even Better**

## By Cliff Davidson

First item of good news: AAAR is in great shape. Our finances are healthy, membership figures are strong, and the AAAR Annual Conferences continue to be applauded by attendees. Second item of good news: things are going to get even better. Building on the success of AAAR '99 arranged by Conference Chair Tony Wexler, AAAR 2000 led by Sonia Kreidenweis will see many important changes. For the first time, we will have laptop computers and projectors available for the technical sessions and the plenaries — bring your talk in Powerpoint (but don't forget your backup transparencies!). Improved scheduling of poster sessions and exhibits will enable attendees to take advantage of both without missing a meal. For the first time, the Awards Lunch will be available at half price for students to encourage their attendance. There will also be three special symposia, with two of them funded by the new AAAR Special Initiatives program.

In fact, the Special Initiatives program is gaining momentum. Our members have lots of ideas on how to share their expertise with other aerosol scientists — and how to promote the field of aerosol science to those outside the discipline. This is good news for an Association whose assets continue to grow and whose importance to society is also growing. Six proposals have been approved — and we expect this number to increase in the coming year. Of special note are two symposia tentatively planned just prior to AAAR 2001 in Portland: The Second International Symposium on the History of Aerosol Science to be organized by Gil Sem, Jim Gentry, and Dave Ensor, and the Symposium on Global Aerosol Climatology to be organized by Nels Laulainen. The next deadline for Special Initiative proposals is July 31 — I encourage you to submit a proposal.

Since the Tacoma meeting, we have revised the Policies & Procedures Document to reflect the best of current AAAR practices. Many of the P&P committee statements have been rewritten, with updated objectives and functions as well as important details such as rotation of members and terms of membership. This should facilitate our committee work. Furthermore, the new P&P document is written in such a way that changes can be incorporated as new ideas develop. This revised, flexible P&P will be printed for the first time in the Membership Directory about to be issued. Thanks to all of the Board members and officers for spending the extra time needed to enable approval of the P&P at the Winter Board meeting. Sharon Ziegler deserves a special thanks for her leadership in this effort.

The Working Groups are the backbone of the AAAR. Vice-President David Pui has been leading an effort to improve their operations, including compiling mission statements from each Working Group and also increasing communication on the ways in which the most active Working Groups have contributed to the Association.

*Aerosol Science and Technology* under Phil Hopke's editorship continues to receive record numbers of submissions. Discussions are underway to explore changing the journal's format to allow a greater number of papers per issue.

As research in atmospheric aerosols grows, so do opportunities for AAAR. The PM-Health Centers and the Supersites established by the U.S. Environmental Protection Agency are

expected to produce exciting research results. The AAAR Annual Conferences can provide an ideal forum for discussing these results. Furthermore, with the help of our hard-working Management Office, AAAR can organize additional meetings on these major research efforts. Discussions with U.S. EPA on this possibility have already been initiated.

Many other positive changes are underway or currently being discussed. I welcome your suggestions on any aspect of the AAAR; feel free to contact me at [cliff@cmu.edu](mailto:cliff@cmu.edu). Let's work together to make the AAAR a *particularly* good Association.

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## **Make a Difference!**

# **Opportunities Abound for Proactive Members**

What should the American Association for Aerosol Research be doing to facilitate education, research, and regulatory and industrial use of aerosol science and technology? The Board of Directors is asking not only for your ideas but also for your participation in moving aerosol science forward.

Think about this question, discuss it among your working group members, and formulate a proposal. If the working group supports it and there is enough energy to make it happen, your idea can become a Special Initiative.

Make a difference in aerosol science, and let the organizational structure (i.e. the AAAR Office and leadership) help you to do so. Short on ideas? Adopt one of these:

- Promote AAAR to potential new members and to the general public;
- Develop and produce promotional materials to introduce AAAR to professionals and the public;
- Publish papers in professional journals outside of aerosol journals;
- Foster development of texts on aerosol science and contribute materials to such texts whenever possible;
- Identify parent or daughter organization(s) for AAAR (e.g., ACS, AIChE);
- Provide free technical advice to small start-up companies or recommend experts to large corporations who can write critical technology assessment papers;
- Extend global outreach to Asia Pacific Rim;
- Participate in AIChE powder technology forums and draw them to AAAR;
- Target powder or fluidized bed industries to join AAAR;
- Engage U.S. Environmental Protection Agency and the new Airborne Particulate Matter Research Centers to work closely with AAAR (e.g., organize Center review meetings in conjunction with AAAR Conferences).

Want to help? The Long-Range Planning Committee also recommended other projects and identified contact persons who volunteered to pursue the identified objectives. These ideas for promoting AAAR and aerosol science are as follows with the contact person listed after the project:

- Co-sponsoring symposia with other organizations (David Pui, [dyhpui@tc.umn.edu](mailto:dyhpui@tc.umn.edu))
- Organize Gordon Conferences on special aerosol topics annually or biannually (Sheldon Friedlander, [skf@seas.ucla.edu](mailto:skf@seas.ucla.edu))
- Participate with Engineering Foundation on special topics, e.g., nanoparticle catalysis (Rick Flagan, [flagan@caltech.edu](mailto:flagan@caltech.edu))
- Nominate national lecturer to Sigma Xi (Tai Chan, [tai\\_chan@gmr.com](mailto:tai_chan@gmr.com))

If you would like to be part of this exciting opportunity to increase the visibility of AAAR and the field of aerosol science, you can volunteer your time and talents by contacting President Cliff Davidson ([cliff@andrew.cmu.edu](mailto:cliff@andrew.cmu.edu)) or one of the members listed immediately above. In addition, please read the Procedures for Special Initiatives in this issue. This information is essential in organizing any of the projects listed in this article.