

PARTICULARS

Newsletter of the American Association for Aerosol Research

Spring 2004

2004 Annual Conference

By Sheryl Ehrman, Conference Chair

Make plans now to attend the 23rd Annual Conference of the American Association for Aerosol Research at the Hyatt Regency Atlanta in Atlanta, GA, from October 4th through October 8th, 2004. The



conference will begin with a day of tutorials, covering basic aerosol science through specialized cutting edge topics. Please encourage your

Important dates to keep in mind: the deadline for abstract submission is **April 14** (abstracts can be submitted via www.aaar.org). Late breaking posters will be accepted into August on a space-available basis. Conference registration will be accepted beginning in May (www.aaar.org), with an early registration

deadline of August 13. Hotel registrations must be made before August 30 to guarantee the conference rate.

For those who are able to come early or stay in the Atlanta region after the conference, options for activities are numerous. Outdoors enthusiasts can take advantage of nearby hiking, rafting, canoeing, and biking opportunities, while those interested in the arts and history can visit numerous museums, including the High Museum of Art and the Museum of Contemporary Art of Georgia (MOCA GA), and important historic sites, such as the Martin Luther King Jr. National Historic Site. During the meeting, the conference location is within walking distance of many attractions including the Atlanta Market Center, the Inforum, Underground Atlanta, and Centennial Olympic Park. Look for more information about local attractions on the AAAR web site in April!



The gardens at President Carter's library

students to attend the conference, and to apply for student assistant positions. Student assistants will be eligible to attend two free tutorials. In addition

to the regular technical and plenary sessions spanning the field of aerosol research, four special symposia are planned, highlighting the following: the relationship between aerosols and climate change, microdosimetry of inhaled particles and drug aerosols, aerosols in the Southeastern U.S., and heterogeneous aerosol chemistry.

We will again be enhancing poster visibility by incorporating poster previews into the technical sessions. All poster presenters who wish to participate in the previews will be asked to provide a power point slide to advertise their talk, and will be given up to a minute to state the purpose and main findings of their research during the preview session. Session chairs will moderate the previews.



View of downtown over piedmont pond

Last but not least, please be sure to spread the news about the annual meeting to colleagues in the field who may not be regular AAAR attendees. A high level of technical excellence and a collegial atmosphere distinguishes this conference, and new participants are always welcome!

04 Conference Sponsored Special Symposia

CHARACTERIZATION AND HEALTH EFFECTS OF AMBIENT SOUTHEASTERN US AEROSOL: SEARCH, ARIES & OTHER STUDIES

Supported by EPRI & Southern Company



MICRODOSIMETRY & TARGETING OF INHALED PARTICLES AND DRUG AEROSOLS

Supported by EPA & ISAM



Thank you. Your support is greatly appreciated.

2005 AAAR International Specialty Conference Atlanta, GA, February 7-11

By Paul A. Solomon, Conference Chair (solomon.paul@epa.gov)

Charging into the 21st Century, AAAR has initiated International Specialty Conferences to enhance dissemination and communication of scientific and policy-relevant findings to its members and the general scientific and regulatory communities. Having a successful first International Specialty Conference in April of 2003, AAAR now embarks on a second entitled Supersites Program and Related Studies. As conference chair, I am at your service to help make this an even more successful conference. Abstracts are due October 1, 2004 and beginning about May 15, 2004 can be submitted electronically from www.aaar.org. Additional information regarding all aspects of the meeting also can be found currently at www.aaar.org. I encourage you to submit abstracts on the wide range of topics listed in Table 1.



An International Specialty Conference by the American Association for Aerosol Research

The format of the conference is similar to the very successful AAAR annual meetings. As many as five concurrent regular technical sessions will be intermixed with viewing time for an extensive set of poster presentations. A wide range of exhibitors has already agreed to participate in this very exciting meeting. On Tuesday, Wednesday, and Thursday, plenary sessions will cover broader topics that support and enhance the findings from studies presented at this meeting. John Bachmann, U.S. Environmental Protection Agency, will discuss the regulatory programs related to PM – Particulate Matter: A Brief History of Nearly Everything. Daniel Greenbaum, Health Effects Institute, will present a view from the health effects communities – PM and Health Effects Research: Progress and the Way Forward. Jeffrey Gaffney, Argonne National Laboratory, will give the third plenary presentation on global climate change – Aerosol Impacts on Global Climate Change: Megacities to Global Scales.

Presenters are strongly encouraged to submit papers to the special peer-reviewed journal issues associated with the meeting, including AS&T, Atmospheric Environment, and J. Geophysical Research – Atmospheres.

I look forward to meeting all of you in Atlanta in 2005.

Table 1. General Sessions Topics:

• Measurement Methods	• Source Apportionment
• Emissions	• Models & Modeling
• Deposition	• Policy Implications
• Measurements and Characterization	• Directions for Future Research
• Atmospheric Processes and Chemistry	• National Ambient Air Monitoring Strategy: Workshop

The primary purpose of this International Specialty Conference is to disseminate results to key stakeholders in the public and private sectors from EPA's PM Supersites Program and other air quality methods, measurements, data analysis, and modeling studies that have taken place in the U.S. and Canada over the last half decade or so. Being an International Specialty Conference, papers from other parts of the world are strongly encouraged. Thus, I ask your help to solicit papers for this meeting from colleagues across the globe. Results from this conference will provide information that should help to ultimately reduce uncertainties in our understanding of atmospheric PM accumulation on urban and regional scales and to allow for the development of effective emissions management programs to reduce the impact of PM related pollution on humans and ecosystems.

From the Editor

By Pete Raynor, Editor



Dear Colleagues:

As I was traveling through airports recently, I had the pleasure of reading the relatively short book *Coal: A Human History* by Barbara Freese (Penguin Books, ISBN 0-14-200098-1). The text is a social, economic, and environmental history of coal's impact on Britain, the United States, and

China. Written to be accessible to readers without a technical background, the book describes ways in which coal has been both a blessing and a problem for humans.

Reading the book caused me to reflect on how significant an impact coal has had on different aerosol science specialties. Coal has certainly been, and continues to be, a major contributor to particulate matter present in the ambient environment. Ms. Freese ably discusses how the effects of exposures to high levels of particles generated by coal burning led to the development of concerns about air pollution during the industrial revolution. Coal dust has long been, and continues to be, an important occupational health issue throughout the world. Many of the techniques used to sample particles in the occupational and ambient environments were developed to assess the exposures of miners to coal dust. More efficient combustion and improved control technology have been and continue to be

studied to minimize particulate and other emissions from coal-fired power plants. The regulation of these emissions is a political issue for the upcoming U.S. presidential contest.

What does any of this have to do with *Particulars*? Not much, I suppose. However, finding books like this every once in a while helps me to put what we all do in perspective and to see the links between the tasks we all perform as aerosol scientists. So, I can recommend *Coal* to anyone who is interested. And I also recommend that you read this issue of *Particulars* carefully to learn more about what is going on in AAAR. Like *Coal*, it's packed with information, but it's a shorter read!

Sincerely,

Peter C. Raynor

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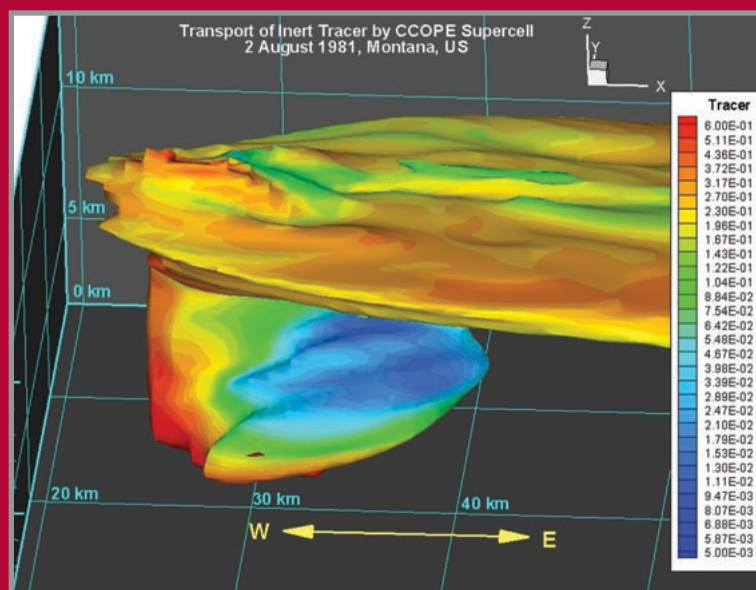
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Aerosols In The Spotlight

Recent experimental and modeling results suggest that deep convective storms can transport some aerosol particles, for example smoke from biomass burning, into the upper troposphere and stratosphere. In the figure, the Wisconsin Dynamical/Microphysical Model (WISCDYMM) has been used to compute the distribution of inert tracer particles at the boundaries of the CCOPE supercell storm of 2 August 1981 ($t = 80$ min). Tracer concentration was assumed to be 1.0 in the lowest 2 km at $t = 0$. The vertical axis has been expanded by 50% for clarity.

Figure submitted by Pao K. Wang, Department of Atmospheric and Oceanic Sciences, University of Wisconsin-Madison.



Getting the Most Out of Your Membership

Membership into AAAR means you are now part of a close-knit organization comprised of the top leaders in the field of aerosol research and science. Today, AAAR is an international organization recognized by its high technical standards and the quality of its Annual Meeting. Membership has grown to more than 1000, with professionals and students from academia, government, and industry throughout the world.

Association members display excellence and leadership in many diverse topics of aerosol research: Global Environment, Microcontamination, Air Pollution, Instrumentation, Aerosol Chemistry, Material Synthesis, Aerosol Physics, Pharmaceutical Aerosols, Occupational and Public Health, Filtration/Separation, Atmospheric Sciences, Combustion, Biological Aerosols, Metrology/Standards, Indoor Air Quality, Radioactive Aerosols and Nuclear Safety.

The Association is committed to the development of aerosol science and its application to important societal issues. Membership in AAAR provides an open forum for education, communication, and networking among leading aerosol researchers.



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- **SAMPLING** - Compact dilution and sample conditioning system for field measurement of diesel and gasoline exhaust aerosols
- **MEASUREMENT** - Realtime instruments (handheld and desktop) to measure active surface area, soot and particle-bound Polycyclic Aromatic Hydrocarbons (PAH)
- **CALIBRATION** - Particle generator for combustion aerosols

For more information ...

www.ecochem.biz

aerosol@ecochem.biz

Get the most out of your membership by taking advantage of these wonderful association benefits:

Subscription to *Aerosol Science & Technology*- Full members receive a one-year subscription to the official Association journal AS&T.

Annual Conference - The AAAR Annual Conference features a technical symposium, Working Group meetings, tutorials, and an exhibition. Conferences often include special symposia on current topics of interest, such as pharmaceutical aerosols or ambient air quality standards.

Newsletter - The member newsletter, *Particulars*, contains up-to-date information about meetings, conferences, symposia, awards, job opportunities, and other official AAAR business.

Membership Directory - Updated annually, the AAAR Membership Directory lists the address, phone, fax, and e-mail numbers for all current members. All members also have access to the online directory.

Election of Officers and Directors - AAAR members elect their own Officers and Directors by an annual mail-in ballot vote. Full Members are eligible for peer or self nomination for any open position on the AAAR Board.

Working Groups and Committees - Members are encouraged to participate in technical Working Groups representing many of the topical areas listed earlier. Working Group members help plan technical symposia, exchange ideas, and recommend programs. Members may join Organizational Committees to assist AAAR Board Members in building and strengthening the AAAR organization in important areas such as Education, Publications, Awards, Finance, Bylaws, and Newsletters.

Awards Program - The prestigious AAAR Awards Program offers support and recognition of individuals who have shown outstanding achievement in aerosol science.

If you would like to see AAAR offer a certain member benefit that you don't see listed, please let us know, email info@aaar.org. We're always looking for new ideas and suggestions to improve membership.

Executive Director Report



2004 is proving to be another exciting year for AAAR. Work has already begun on our main focus – the 23rd Annual Conference, October 4-8 in Atlanta, Georgia. And we have selected Austin, Texas as the host city for the 2005 Conference and St. Paul for the 2006 International Aerosol Conference which will bring together attendees from all over the world.

So here we are only through the first quarter of the year and AAAR is already on the road to success. The following is a brief recap of what's happened already this year...

The bylaw amendments were distributed for a vote in early January and passed with overwhelming approval. Thank you to everyone who sent in their ballot! These amendments addressed several issues related to using technology as a tool for communication in the future. The Bylaws were written at a time that preceded the use of electronic communication and the amendments focus on taking advantage of recent technological improvements.

In the first quarter of 2004 we also finalized the meeting contract for the 2005 Supersites Conference - February 7-11 at the Sheraton Atlanta Hotel in Atlanta, Georgia. Be sure to check out Paul Solomon's article on page 2.

I'm happy to report that AAAR is also staying fiscally responsible. The final 2003 figures show a net profit for the year which was the result of some difficult budget cuts and a successful PM specialty conference.

At the recent March board meeting, the board reviewed and approved the 2004 annual budget-one of the most important board responsibilities! The board continued with the emphasis on reducing expenses and increasing revenue. Sonia Kreidenweis and the Development Committee have developed an organized approach to

conference sponsorship. They will be rolling out the new plan for interested companies soon.

The call for nominations for the prestigious AAAR awards was recently distributed (refer to page 6 for more details). You are encouraged to take the time to nominate an

As we continue throughout the year, it will be important to focus on achieving our goals and moving forward.

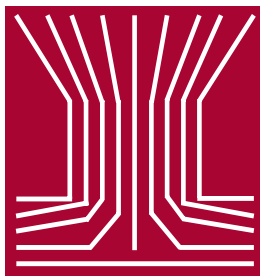
individual you feel might be worthy of one of these awards. Remember that the deadline is June 7.

AAAR has begun to collaborate with other Societies on mutually beneficial projects. For now, many of these collaborations center on the sharing of information of upcoming meetings and special journal issues with both our members and those of our partners. In addition, we are working with A&WMA on the technical aspects of their Measurements meeting. ISAM will also be co-sponsoring a symposium at the upcoming annual conference.

As you can see, AAAR has shown progress in many areas in such a short period of time. As we continue throughout the year, it will be important to focus on achieving our goals and moving forward. Keep an eye out for additional updates in future issues of my *Particulars* report.

Continued Success,

Libby McDannell
Executive Director



Call for Award Nominations

The Awards Committee of the American Association for Aerosol Research (AAAR) invites you to submit nominations for the following prestigious awards:

Kenneth T. Whitby Award
Sheldon K. Friedlander Award
David Sinclair Award
Thomas T. Mercer Joint Prize
Benjamin Y.H. Liu Award

Each award consists of a cash prize and plaque. The awards will be presented at the 23rd Annual AAAR Conference, October 4-8, 2004 at the Hyatt Regency Atlanta, Atlanta, Georgia. Any AAAR member, except members of the Awards Committee, may make nominations.

The Awards

Kenneth T. Whitby Award

The Kenneth T. Whitby Award recognizes outstanding technical contributions to aerosol science and technology by a young scientist. The purpose of the award is to encourage continued work in the field and ongoing support of such endeavors.

The award memorializes Kenneth T. Whitby, known for his contributions to aerosol measurement, the study of aerosol properties and behavior, and the nature of atmospheric aerosols. Whitby established the University of Minnesota's Particle Technology Laboratory in the Department of Mechanical Engineering.

Eligibility for the 2004 Award

- Nominee must have earned his/her highest degree in 1994 or later
- At least one letter of nomination must be submitted by a current AAAR member
- Two additional supporting letters (need not be from AAAR members)
- Nominee's curriculum vita

The letters must state the particular reasons for nominating the individual. The curriculum vita should include a list of published work.

David Sinclair Award

The David Sinclair Award recognizes sustained excellence in aerosol research and technology by an established scientist still active in his/her career. The individual's research must have a lasting impact in aerosol science.

The award memorializes David Sinclair, one of aerosol science's great innovators, known for his knowledge, ingenuity and energy. Sinclair distinguished himself as a pioneer in aerosol science through his work with Victor LaMer at Columbia University.

Eligibility for the 2004 Award

- Nominee must have received his/her highest degree in 1994 or earlier
- At least one letter of nomination must be submitted by a current AAAR member
- Two supporting letters (need not be from AAAR members)
- Nominee's curriculum vita

The letters must state the particular reasons for nominating the individual. The curriculum vita should include a list of published work.

Sheldon K. Friedlander Award

The Sheldon K. Friedlander Award recognizes an outstanding dissertation by an individual who has earned a doctoral degree. The dissertation can be in any discipline in the physical, biomedical, or engineering sciences but has to be in a field of aerosol science and technology.

The award is named in honor of Professor Sheldon Friedlander for his leadership as a researcher, teacher, and pioneer in aerosol science. One of AAAR's founders, Friedlander is a past recipient of the distinguished Fuchs Memorial Award. He has directed graduate students at The Johns Hopkins University, the California Institute of Technology, and the University of California for more than 30 years.

Eligibility for the 2004 Award

- Nominee must have received a doctoral degree in 2001 or later
- At least one letter of nomination by a current AAAR member
- Copy of the dissertation abstract
- Copy of the candidate's curriculum vita. The curriculum

vita should include a list of published work.

- Two supporting letters that include reasons for nominating the individual, a critical review stating the value of the dissertation in terms of its originality, significance and potential applications in the field of aerosol science and technology
- Supporting letters may focus on one or two of the above stated attributes

Thomas T. Mercer Joint Prize

Sponsored by AAAR and the International Society for Aerosols in Medicine (ISAM), the Thomas T. Mercer Joint Prize recognizes excellence in the areas of pharmaceutical aerosols and inhalable materials.

The award honors the legacy of Thomas T. Mercer, an outstanding researcher and author whose work encompassed aerosol physics and chemistry as well as inhalation toxicology, industrial hygiene, and health physics.

Eligibility for the 2004 Award

- The award is based strictly on achievement in the field of inhalable materials and medicinal aerosols. No other qualifications are required of the recipient
- At least one letter of nomination must be submitted by a current AAAR or ISAM member
- Two supporting letters (need not be from AAAR or ISAM members)
- Nominee's curriculum vita

The letters must state the particular reasons for nominating the individual. The curriculum vita should include a list of published work.

Presentation of the Thomas T. Mercer Joint Prize is shared between AAAR and ISAM on alternating years.

Benjamin Y.H. Liu Award

The Benjamin Y. H. Liu Award recognizes outstanding contributions to aerosol instrumentation and experimental techniques that have significantly advanced the science and technology of aerosols.

The award honors Professor Benjamin Liu for his leadership in the aerosol community and his own seminal contributions to aerosol science through instrumentation and experimental research. Professor Liu is a founding father of the AAAR and of the society's journal, *Aerosol Science and Technology*, and helped establish the International Aerosol Research Assembly. He received the

Fuchs Memorial Award in 1994 and retired as Regents' Professor from the University of Minnesota in 2002, where he also served as the director of the Particle Technology Laboratory from 1973 to 1997.

Eligibility for the 2004 Award

- At least one letter of nomination must be submitted by a current AAAR Member
- Two supporting letters (need not be from AAAR members)
- Nominee's curriculum vitae

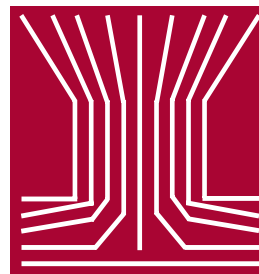
The letters must describe specific instrumentation and/or experimental techniques developed by the candidate that have had a significant impact on aerosol science and technology. The curriculum vitae should include a list of relevant commercial instruments, patents, and/or publications.

Submission of Nominations

Nominations and supporting documentation for all awards must be received by **June 7, 2004**, at the AAAR national office:

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17000 Commerce Parkway, Suite C
Mt Laurel, NJ, 08054
Phone: 856-439-9080
Fax: 856-439-0525
E-mail: info@aaar.org

All AAAR members are encouraged to submit nominations for these prestigious awards. If you have any questions, call Deanna Bright at your national office at 856-439-9080.



In Case You Missed It...

T. Cains and colleagues from the South East Sydney Public Health Unit in Australia have published a study in Tobacco Control (<http://tc.bmjournals.com/>) which concludes that “no smoking” sections of licensed gaming clubs provided only partial protection against environmental tobacco smoke. Mean nicotine and PM10 concentrations in the “no smoking” sections were only reduced to about 50% of the levels in the smoking areas.

An article entitled “Torch Song” by Mary Ellen Egan in the February 2, 2004 issue of Forbes, <http://www.forbes.com>, discusses the potential for significant litigation over tenuous links between exposure to welding fumes and Parkinson’s disease. In October 2003, a former maintenance worker was awarded \$1 million in a lawsuit against three welding rod manufacturers. Many more suits have subsequently been filed. Ongoing research on the health effects of occupational exposures to welding fumes at the National Institute of Occupational Safety and Health (NIOSH) are discussed at <http://www.cdc.gov/niosh/welddata.html>.

A press release from the Environmental Protection Agency states that engine manufacturers are on target to introduce lower emission diesel engines by 2007. The report referred to in the press release, Highway Diesel Progress Review Report 2, can be found at <http://www.epa.gov/otaq/diesel.htm>.

For those readers who have heard enough about aerosol research on Earth, how about aerosol research taking place on Mars? The March 5, 2004 press release from the Jet Propulsion Laboratory on the Mars Rover Missions (<http://marsrovers.jpl.nasa.gov/newsroom/pressreleases/20040305a.html>) discusses experiments on the rovers that indicate, according to Dr. Morten Madsen of the Center for Planetary Science at the University of Copenhagen, that most dust particles in the martian atmosphere are magnetic. More information on these experiments can be found at <http://ntserv.fys.ku.dk/mars/>.

CALENDAR OF EVENTS

April 19-22, 2004

Symposium on Air Quality Measurement Methods and Technology
Research Triangle Park, NC
www.awma.org/events

May 8-13, 2004

AIHce 2004
Sponsored by American Industrial Hygiene Association (AIHA) and ACGIH
Georgia World Congress Center
Atlanta, Georgia

June 20-24, 2004

Air & Waste Management Association 97th Annual Conference & Exhibition
Indiana Convention Center
Indianapolis, Indiana
www.awma.org/ACE2004

July 1-6, 2004

6th International Meeting on Thermodiffusion
Villa Cipressi, Varenna (LC) Italy
www.fisica.unimi.it/imt6
contact: imt6@fisica.unimi.it

August 1-5, 2004

7th International Congress on Optical Particle Characterization, OPC2004
Doshisha University, Kyoto, Japan
E-Mail: info@OPC2004.doshisha.ac.jp

August 9-12, 2004

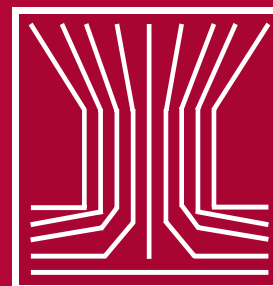
11th International Symposium on Flow Visualization
University of Notre Dame
Notre Dame, Indiana
www.ode-web.demon.co.uk/11isfv

October 4 - 8, 2004

AAAR 2004 Annual Conference
Hyatt Regency
Atlanta, Georgia

February 7 - 11, 2005

AAAR Supersites Conference
Sheraton Atlanta Hotel
Atlanta, Georgia



A Message From The President

Phil Hopke



I am writing immediately after the winter meeting of the board of directors and I can report that our association is doing well. Last year we have completed our work on bringing the annual budget into alignment of expenses and revenue, thus, even without the very successful PM2003 meeting, we had a small budget

surplus. We still have a way to go to bring our long term reserve fund back up to the level called for in our policies, but we have taken the right steps to get the expenditures under control and ensure the long term financial health of the Association. I know many of the members that found the increases made to dues and conference fees in 2002 were large, but I hope you noted that the increase last year was only by the Consumer Price Index and this is again the case for 2004. These steps were absolutely essential to turn our financial situation around, and we will continue this procedure for the future as we move back to full fiscal stability.

I do not want to focus only on finances, but there is another aspect I need to bring to your attention and that is our awards funds. Over the years, we have been slowly accumulating endowments for the five awards we present each year such that at this time, each of the five funds, Whitby, Sinclair, Friedlander, Mercer, and Liu awards, now have about \$20,000 each to support them. However, the annual expenses to provide the awards is such that the income from these endowments does not fully cover the costs. The Development Committee has been asked to formulate a plan for a long term campaign to bring the amounts in these funds up to a level that would make the awards self-supporting. We anticipate beginning an effort to solicit funds beginning with the annual meeting, but in the meantime, I urge you to consider a contribution to the award fund of your choice to help us move toward our goal of full funding of the awards. We will shortly have a new page at www.aaar.org that will provide an easy and secure method for you to contribute.

Let's move on to more interesting topics. The archive of articles from Aerosol Science and Technology up to the end of 2002 is now available on-line. You can start at www.tandf.co.uk/journals/default.asp and look for Aerosol Science and Technology in the alphabetical list of journals. The actual address of the journal's page is very long and we are working to make the links simpler. Anyone can start at the AAAR home page and click the

link on Taylor and Francis. We expect this accessibility will increase the visibility of the journal and the value of your publications. There is a new alert service available from Taylor and Francis called SARA which you can sign up for from the Aerosol Science and Technology page. Keep in mind there are always papers available to members in advance of the printed issues.

Plans for our second specialty conference are moving forward as you can see in the article in this issue by conference chair, Paul Solomon. The details are also available at www.aaar.org and abstract submission begins in May. For those members interested in ambient aerosols, this will be an exciting meeting and we look forward to seeing the program develop over the remainder of the year.

The plans for this year's annual meeting are developing well as you can see in the message from our conference chair, Sheryl Ehrman. We have several specialty symposia. One of these symposia focuses on SEARCH/ARIES program that is providing much new information on the relationships between ambient particulate matter and adverse health effects. This symposium is being sponsored by EPRI and Southern Company and we appreciate their assistance in supporting the meeting.

Another symposium is on microdosimetry and is jointly sponsored by the International Society for Aerosols in Medicine (ISAM). We are working to provide a venue for ISAM members to find it attractive to come to the annual AAAR meeting since they only meet in North America every sixth year. There are clearly areas of aerosol science of mutual interest and we expect useful interactions to develop between these two societies who have already been working together in terms of the joint Mercer Award.

The 2004 Annual Conference Call for Abstracts is out and you can now submit your abstracts on-line. The abstract deadline is April 14. Atlanta is an excellent venue and the local members led by Mike Bergin are working hard to provide information that will make the time in Atlanta a good social one as well as intellectual experience. I look forward to seeing you there.

Philip K. Hopke



PARTICULARS

Particulars is published by the American Association for Aerosol Research as the primary information source for Association members.

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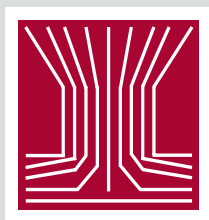
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Who's Who at the AAAR Office

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 emails are typically answered within 24 hours.

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Welcome New Members

As of March 15, 2004

Tom Barrow
Hygenic Essentials Ltd

Oliver Bischof
TSI GmbH

Christoffer Boman
Umea University

Larry Bowen, Sr.
In-Tox Products

Juana Maria Delgado Saborit*
Universitat Jaume I

Hiroshi Furutani
University of California, San Diego

James Hanzelka
US Army-Dugway Proving Ground

Neil Jenkins

Scott Alan Kirby*

Coleman LaFrance
LaFrance & Associates

Alex King Yin Lee*
Hong Kong University of Science & Tech

Emily Lincoln
US Forest Service

David Ohayon
Triosyn Corporation

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Northrop Grumman

Mathews Richardson*
Colorado State University

Ryan Sullivan*
University of California, San Diego

Vickie Tatum
NCASI

Danielle Taylor
MicroEnergy Technologies

Paolo Tronville
Polytechnic of Turin

*Signifies Student Members

