



# PARTICULARS

NEWSLETTER OF THE AMERICAN ASSOCIATION FOR AEROSOL RESEARCH

SPRING 2003

## 2003 AAAR ANNUAL MEETING, ANAHEIM CA, OCTOBER 20-24

By Barbara Turpin, Conference Chair

I look forward to seeing you at the 22nd Annual Conference of the AAAR, in Anaheim, California on October 20-24, 2003. Abstracts are due April 25, and can be submitted electronically from [www.AAAR.org](http://www.AAAR.org). Late breaking posters will be accepted into August. I would like to encourage you to submit all your aerosol-related work for presentation at this meeting, and hope you will extend the invitation to others who work in aerosol science but might not have previously attended our conference. Conference registration will be accepted beginning in June ([www.AAAR.org](http://www.AAAR.org)). Early registrations are accepted through July 31. Room reservations must be made by September 17 to guarantee the negotiated rate.

The conference begins with a day of tutorials on a wide variety of aerosol topics. Special symposia highlight heterogeneous chemistry, biological and chemical agent detection, and the California Regional Particulate Air Quality Study (CRPAQS). This year poster visibility will be enhanced with a PowerPoint display during the plenary sessions. All poster presenters will be associated with a session and provide one PowerPoint slide to “advertise” their poster. Each session will conclude with a collection of poster authors making one minute poster “advertisements” stating the purpose and major finding of their poster. This will be moderated by the session chair, who will display the PowerPoint slides. This process is intended to give the Conference participants a better sense

of the overall accomplishments in the field over the last year. These brief poster presentations should also provide more incentive to visit the posters and investigate the authors claims.

Opportunities for family fun abound in the Anaheim area (including Disneyland, Universal Studios, Pacific beaches, and mountain hikes), and you might consider arriving early or staying late to get the most out of your trip.

Look for registration information coming soon!



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### 2003 Convention Sponsorship Opportunities

AAAR offers opportunities to promote and demonstrate commitment to the science of aerosol research by becoming a sponsor of the 22nd Annual Conference in Anaheim, CA.

For information on specific sponsorship opportunities, please contact Libby McDannell at the national office, 856-439-9080, e-mail: [aaar@ahint.com](mailto:aaar@ahint.com).

## CALL FOR 2003 AWARD NOMINATIONS

The AAAR Awards Committee 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 22nd Annual AAAR Conference, October 20-24, 2003 at the Hilton Anaheim, Anaheim, California. 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*

- Nominee must have earned his/her highest degree in 1993 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.

#### *Past Recipients of the Kenneth T. Whitby Award*

1984 Asit K. Ray  
 1985 Juan Fernandez de la Mora  
 1986 Thomas W. Peterson  
 1987 Gideon S. Grader  
 1988 Sotiris E. Pratsinis  
 1989 Jin Jwang Wu  
 1990 Toivo T. Kodas  
 1991 Pratim Biswas  
 1992 Mark R. Stolzenburg  
 1993 Gerhard Scheuch  
 1994 Sarah J. Dunnett  
 1995 Anthony S. Wexler

1996 Alessandro Gomez  
 1997 Constantine Megaridis  
 1998 Lynn M. Hildemann  
 1999 Kimberly Prather  
 2000 Spyros N. Pandis  
 2001 Paul J. Ziemann  
 2002 Barbara Wyslouzil

#### **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*

- Nominee must have received his/her highest degree in 1993 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.

#### *Past Recipients of the David Sinclair Award*

1988 Virgil A. Marple  
 1989 Kvetoslav R. Spurny  
 1990 Morton Lippmann  
 1991 E. James Davis  
 1992 James R. Brock  
 1993 Richard C. Flagan  
 1994 James H. Vincent  
 1995 Sudarshan K. Loyalka  
 1996 Peter H. McMurry  
 1997 Howard Reiss  
 1998 Heinz Fissan  
 1999 Daniel E. Rosner  
 2000 James W. Gentry  
 2001 Richard A. Dobbins  
 2002 David. Y.H. Pui

#### **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

*CONTINUED ON PAGE 3*

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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*

- Nominee must have received a doctoral degree in 2000 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

*Past Recipients of the Sheldon K. Friedlander Award*

1997 Da-Ren Chen  
 1998 Srinivas Vemury  
 1999 Richard McClurg  
 2000 William D. Dick  
 2001 Manuel Gamero-Castaño  
 2002 Christopher Noble

**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*

- 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.

*Past Recipients of the Thomas T. Mercer Joint Prize*

1995 Paul Morrow  
 1996 Joseph D. Brain  
 1997 Roger O. McClellan  
 1998 Werner Stöber  
 1999 Willi Stahlhofen  
 2000 Aziz Ben-Jebria  
 2001 C. Arden Pope  
 2002 Ronald K. Wolff

**Benjamin Y.H. Liu Award - NEW for 2003**

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 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*

- 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 the Kenneth T. Whitby Award, David Sinclair Award, Sheldon K. Friedlander Award, and the Benjamin Y.H. Liu Award must be received by June 6, 2003, at the AAAR national office:

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

Nominations and supporting documentation for the Thomas T. Mercer Joint Prize must be received by **April 15, 2003** at the AAAR national office.

All AAAR members are encouraged to submit nominations for these prestigious awards. If you have any questions, call Libby McDannell at 856-439-9080.

## FROM THE EDITOR

By **Lupita D. Montoya, Editor**

Greetings,

As we look further ahead, we are starting to plan for our Annual Meeting in Anaheim, CA. Having lived in Southern California for a number of years, I hope to use *Particulars* to provide you with information about things to do in the area around our meeting site.



My colleague, Toni Miguel, compiled a list of websites about places in the area that may be useful to those interested. If you know of additional sites or other important information that we should include, please email me at [lmontoya@hsph.harvard.edu](mailto:lmontoya@hsph.harvard.edu) or Amy Chezem at [achezem@ahint.com](mailto:achezem@ahint.com).

Lupita D. Montoya  
Editor

### Sites of Interest in Greater Los Angeles

Los Angeles is served by major freeways, several bus systems, and the Metrolink commuter rail system that provides easy access to its vast resources including mountains, beaches, gardens, museums, cultural centers, educational institutions, sports centers and, of course, Disneyland, right at the meeting site.

You can get detailed information on these great resources at the websites below.

Hikes in the Angeles National Forest  
<http://tchester.org/sgm/hikes.html>

City Hall/Civic Center  
<http://www.ci.la.ca.us>

Descanso Gardens  
<http://www.descanso.com>

Dodger Stadium  
<http://www.dodgers.com>

La Brea Tar Pits  
<http://www.tarpits.org/>

Los Angeles County Museum of Art (LACMA)  
<http://www.lacma.org/>

Los Angeles Coliseum  
<http://www.stadianet.com/lacoliseum/>

Los Angeles Zoo  
<http://www.lazoo.org>

Mount Wilson Observatory  
<http://www.mtwilson.edu/>

Norton Simon Museum  
<http://www.nortonsimon.org/>

Old Pasadena  
<http://www.oldpasadena.com/oldpas/>

Queen Mary  
<http://www.queenmary.org/>

Rose Bowl  
<http://www.rosebowlstadium.com/>

San Gabriel Mission  
<http://sangabrielmission.org/>

Santa Anita Park  
<http://www.santaanita.com/>

Southwest Museum  
<http://www.southwestmuseum.org/>

The Griffith Observatory  
<http://www.griffithobs.org/>

The Huntington Library  
<http://www.huntington.org/>

The J. Paul Getty Museum  
<http://www.getty.edu>

The Museum of Contemporary Art (MOCA)  
<http://www.moca-la.org/>

The Music Center  
<http://www.music-center.com/index.html>

## Calendar of Events



**June 14-18, 2003**  
14th International Society for Aerosols in Medicine  
(ISAM) Congress  
Baltimore, Maryland, USA  
Website: [www.isam.org](http://www.isam.org)

**August 31- September 5, 2003**  
European Aerosol Conference 2003  
Madrid, Spain  
E-Mail: [EAC2003@apphys.uned.es](mailto:EAC2003@apphys.uned.es)  
Website: [apphys.uned.es/EAC2003/](http://apphys.uned.es/EAC2003/)

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## A MESSAGE FROM THE PRESIDENT

*Susanne Hering*

Ever since its founding in 1982, AAAR has relied on the innovation, dedication and volunteer efforts of its membership. This year is no exception. We are putting in place ideas originating from our committees, working groups and board to advance the avenues of communication through which AAAR serves the aerosol research community.

This year's Annual Conference, under the leadership of Barbara Turpin, promises to be especially exciting. We are honored that John Fenn, Nobel Prize winner for electrospray technologies, has agreed to present a plenary lecture. We will have the pleasure of plenary lectures from Peter McMurry speaking on atmospheric nucleation, William Nazaroff examining sources of particulate pollutants indoors, and Paige Tolbert addressing issues in PM Epidemiology. Special symposia include sessions on Heterogeneous Chemistry, the California Regional PM10-PM2.5 Air Quality Study, and Chemical and Biological Agent Detection. As before, the first day of the meeting is reserved for tutorials, which this year are being organized by William Nazaroff. Our exhibits liaison this year is Tom Merrifield, who has done an outstanding job for our spring specialty conference, and will help ensure a strong representation of aerosol instrumentation, publication and research companies. The Student Session Assistants program is being organized through Da-Ren Chen. This year we have added two new members to the Conference Committee, Evan Whitby as Conference Outreach, and Paul Ziemann as Local Liaison. Their charge is to reach outside of AAAR to those communities who use may use aerosol technology but are unaware of our conference or tutorial program.

For the first time, we are using our own on-line abstract submission for our conference. This has been put together by Donald Dabdub, AAAR member from UC Irvine. Using open-source software, this system is specifically adapted to the needs of AAAR. Conference chair and Working Groups will have web access to the abstract database while organizing the program. Once the conference program is in place, all abstracts will be available on the web in searchable format. This public web access to the program content makes our meeting more visible, and helps communicate advances in aerosol technology to the entire research community. It allows attendees to plan the use of their time in advance of the meeting.

Our journal, *Aerosol Science and Technology*, is growing. Our new editorial team of Richard Flagan, Kikuo Okuyama and Robert Phalen, in collaboration with our publisher, Taylor and Francis, are fostering a new web presence for our journal. You may have noticed articles can be viewed on-line months in advance of the paper copy, and are shown with the full paper-edition citation. Taylor and Francis is committed to an electronic publication schedule of five-weeks from receipt of the final accepted manuscript, provided authors review their galley quickly. Electronic access to the journal is easily gained through the "members only" page of the AAAR web site. Back issues of the journal are available to all current AAAR members. If you have a manuscript, please submit it electronically through the AAAR home page. My own experience is that the reviews are quick and insightful.

Our first-ever spring specialty conference, "Particulate Matter: Atmospheric Sciences, Exposure and the Fourth Colloquium on Particles and Human Health", was a great success. With nearly 600 pre-registrants, and 400 papers, we brought together toxicologists, epidemiologists, atmospheric aerosol scientists, experts in human exposure, decision makers, and others in the field of PM2.5. We thank our conference organizers Cliff Davidson, Paul Solomon and Robert Phalen, for their long hours to put together a program that affords ample opportunity for discussion and interaction among these various research communities.

On the organizational side, the AAAR Board is pleased to announce a four-year agreement with Association Headquarters for the management of our home office. Ann Marie Smith continues as our Executive Director, and is assisted by Celeste McNair as Conference Director. The new home office has served us very well. They have run an excellent meeting, and have greatly improved our financial planning. The four-year term carries us through the International Aerosol Conference in St. Paul, Minnesota, in 2006. Our upcoming conference chairs are Sheryl Ehrman (2004), Spyros Pandis (2005) and David Pui and Gilmore Sem (2006), each of whom I am sure are especially thankful for the continuity of support from the home office.

On the financial side, we are pleased to say for the first time in many years, AAAR has a budget in the black. For the last several years the operating cost of our

*CONTINUED ON PAGE 6*

## INDUSTRY NEWS

**TSI Incorporated** announces plans to acquire certain operations of Bristol Industrial and Research Associates, Ltd (BIRAL). Effective January 2003, TSI assumed direct responsibility for the sales and service operations for TSI products previously performed by BIRAL. TSI has recognized the growing importance of the U.K. market for its extensive line of particle and fluid mechanics research

instruments as well as its various industrial product lines. TSI is excited about the opportunity to expand its direct presence in this key European market.

If you have information you would like to share in Industry News, please email [achezem@ahint.com](mailto:achezem@ahint.com) or fax any press releases to Amy Chezem at 856-439-0525.

### WHO'S WHO AT THE AAAR OFFICE

**Ann Marie Smith**

**Executive Director**

Oversees all day-to-day operations  
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**Libby McDannell**

**Executive Assistant**

Assists executive director and handles all membership issues  
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**Celeste McNair**

**Director of Meetings**

Responsible for arrangements of meetings  
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**Linda Still**

**Exhibits Manager**

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**Amy Chezem**

**Public Relations Director**

Responsible for all public relations activities and newsletter  
[achezem@ahint.com](mailto:achezem@ahint.com)

## Aerosols In The Spotlight

Do you have an interesting image of aerosols, not published elsewhere, to feature in future issues of Particulars newest section, "Aerosols in the Spotlight"? If so, please share your find with other readers. Please send an image of your aerosol, along with a brief caption (no more than 50 words), to the editor, [lmontoya@hsph.harvard.edu](mailto:lmontoya@hsph.harvard.edu).

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#### A MESSAGE FROM THE PRESIDENT

organization exceeded our operating revenue by 10-20%. Initially we made up this deficit through return on our investments. In the last two years this has not been possible as our investments have declined along with the stock market. Suddenly our resources had dropped by nearly a factor of two. Additionally, last year we had exceptional costs due to the transition to a new home office, and the need to purchase extra pages to eliminate the backlog of our journal. Realization of our financial situation necessitated many cost-cutting measures. After a long period of stagnant dues and conference rates, we found it necessary last year to raise our fees. However, last year's increase is not being repeated. At the meeting last January, the board voted to maintain the current level of dues and conference fees, with an annual adjustment

for inflation rounded to the nearest dollar. This may make for odd dollar amounts, but it is consistent with our contractual obligations to the home office and the journal, both of which are tied to the inflation index. This modest annual adjustment avoids large corrective adjustments in the future, and keeps us on a consistent path financially. Both are important to the health of the society.

On behalf of the board of directors, thank you for your continued support of AAAR through your membership, your participation in the journal as authors and reviewers, and your attendance at our conferences. Those of you who may be interested in taking a more active role in AAAR are invited to attend one of the Working Group Meetings, held in conjunction with the Annual Conference.

**AAAR PM MEETING SPONSORS**

The American Association for Aerosol Research gratefully acknowledges the generous support of the following sponsors of the AAAR PM Meeting, March 31-April 4, 2003 in Pittsburgh, Pennsylvania.

- American Chemistry Council
- American Petroleum Institute - API
- Air and Waste Management Association - AWMA
- Center for Occupational and Environmental Health - University of California Irvine
- Department of Community and Environmental Medicine - University of California Irvine
- Department of Energy, Office of Fossil Energy, National Energy Technology Laboratory
- Environmental Protection Agency - EPA
- EPRI
- Ford Motor Company
- Health Effects Institute- HEI
- International Society for Aerosols in Medicine - ISAM
- Mid-Atlantic Region Air Management Association (MARAMA)
- NARSTO
- National Institute of Environmental Health Sciences- NIEHS
- New York State Energy Research and Development Authority - NYSERDA
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*PARTICULARS* IS PUBLISHED BY THE  
AMERICAN ASSOCIATION FOR AEROSOL  
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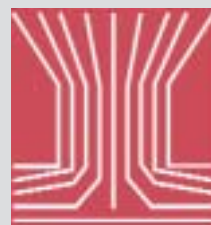
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University of Michigan

**LEI YU CHEN\***  
National Taiwan University

**\* Student member**