



# PARTICULARS

Newsletter of The American Association for Aerosol Research

Fall 2001

## The AAAR 2001 Conference in Portland

By Yung Sung Cheng, AAAR 2001 Conference Chair

Make your reservations! The DoubleTree Hotel Lloyd Center in downtown Portland, Oregon is the site of the 20th Annual AAAR Conference, October 15-19, 2001. The conference is shaping up to be one of our best, with several new additions. The DoubleTree boasts excellent meeting rooms and numerous amenities — a fitness center, indoor pool, and a business center with Internet and e-mail facilities. The hotel is located on the east side of the Willamette River, and is within walking distance of the Oregon Convention Center, the Rose Garden Arena, and the Memorial Coliseum. Across the street is the fabulous Lloyd Center Mall, featuring over 200 stores, 30 restaurants, 18 movie theaters, and an ice skating rink. Reserve your room now for the best selection (see page 11 for details).

The 2001 Conference Program reflects the culmination of 20 years' work in aerosol science. More than 520 abstracts were submitted in response to the Call for Papers. As always, we are proud to offer high-quality presentations, cutting-edge tutorials, special programs, and opportunities for networking with colleagues worldwide. Of particular note are the Tutorial Program, the four Plenary Lectures, and the four Special Symposia (see box below). For more information, check the preliminary program at [www.aaar.org](http://www.aaar.org).

### Plenary Lectures

Tuesday: Dr. James S. Vickery, U.S. EPA  
"Atmospheric Aerosol Science for Public Policy —  
THE NARSTO PM ASSESSMENT"

Wednesday: Dr. Peter Brimblecombe, East Anglia University  
"The Art of the Aerosol"

Thursday: Colonel Eric Daxon, Proponency Office  
for Preventive Medicine, U.S. Army  
"Science is not Enough"

Friday: Dr. Andrew Clark, Inhale Therapeutic Systems  
"Pharmaceutical Aerosols: The Continuing Revolution"

### Special Symposia

"Direct Effects of Aerosols on the Ecosystem"  
Tuesday, 9:15 am - 12:10 pm

NIST Centennial Symposium: "Aerosol and Particle  
Metrology and Calibration"  
Wednesday, 10:50 am - 4:50 pm

"Aerosols in China"  
Thursday, 9:15 am - 2:50 pm

"Ultrafine Particles in the Atmosphere"  
Thursday, 2:45 pm - 5:40 pm  
Friday, 9:15 am - 10:35 am



Two AAAR-sponsored special symposia will be held at the Portland Airport Embassy Suites Hotel on Saturday and Sunday, October 13-14, preceding the main conference. Gil Sem has organized the Second Symposium on the "History of Aerosol Sciences," and Nels Laulainen has organized the Specialty Symposium on the "Global Aerosol Climatology/Database." Please consider coming to Portland early to participate in these special symposia.

The response to the Poster Presentation Program has set new records for AAAR! The first Poster Session will be held on Tuesday evening, in conjunction with the Exhibitors' Reception. The second Poster Session will take place mid-day on Thursday, with complimentary boxed lunches for registrants.

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## President's Message

By David Pui

Two memorable events will take place at the upcoming AAAR Annual Conference in Portland. First, we will remember our distinguished colleague, Glen Cass, who passed away on July 30, 2001. At the time of his death, Glen was Vice-President-Elect of AAAR, and Chair of Earth and Atmospheric Sciences at Georgia Tech. He spent most of his professional career at Caltech, where he graduated a long list of outstanding doctoral students. Many have become academics who are now educating the next generation of students in aerosol and environmental engineering. Glen was highly dedicated to his work, and to AAAR. In spite of his illness, he attended the February AAAR Board meeting, and made many good suggestions that helped guide the Board through a couple of crises at hand. He continued to carry his heavy load of responsibilities energetically until the very end. We will miss Glen, and will remember him as a great scientist, teacher, and friend. Several activities will be organized to remember Glen, and to celebrate his achievements.

The Portland Conference will also mark the 20th Anniversary of the AAAR Conference. Several activities will be planned to celebrate the event. We have received a record number of abstracts for the Conference and the two special weekend symposia. Please register early to come and celebrate this important AAAR milestone. From the first annual conference in Santa Monica in 1982, AAAR has grown in membership from 200 to 900 plus. The AAAR pioneers have worked with their counterparts in Europe and Japan to promote aerosol science and technology around the world. I have been very pleased to see the rapid growth of Asian aerosol associations during the past few years. In particular, the Korean Association for Particle and Aerosol Research (KAPAR) organized a very successful Asian Aerosol Conference (AAC 2001) in Pusan, Korea this summer. The Chinese Association for Aerosol Research in Taiwan (CAART) will organize the major International Aerosol Conference (IAC 2002) next year in Taipei, Taiwan. AAAR members continue to promote active collaboration with international researchers. Board members, Mike Bergin, and the late Glen Cass, who worked diligently on the organization of the Aerosol in China Symposium.

The spirit of service is strong in AAAR. Many of the founders and past presidents of AAAR are still actively engaged in service activities essential to the association. Sheldon Friedlander told me that he would like to devote the next few years to promoting "aerosol as an enabling technology" to government agencies and various industries. David Ensor accepted the positions of chair of the Management Office Evaluation Committee and the AS&T Editor Search Committee (Publication Committee). At a moment's notice, four past presidents, Tai Chan, Peter McMurry, Cliff Davidson, and

Susanne Hering, agreed to serve on the Ad Hoc Committee for Glen Cass Memorial Planning. Susanne Hering also provided a great deal of input in the ongoing Management Office Search.

It has been my distinct pleasure to serve with an energetic group of AAAR Board of Directors and Officers. The Board members come from a diverse background, and represent the interests of AAAR members well. When a crisis develops, all Board members spring into action. A good example is the Management Office Search. As a result of thorough market research led by Pat Keady, a total of 19 bidders responded to our RFPs. The search will continue in the coming weeks, with a final decision to be made at the Portland Board Meeting. I admire the personal sacrifice that Pat Keady has made in preparing herself to assume the AAAR presidency. With the dedicated group of the AAAR Board and Officers, I believe AAAR's future will be a bright one. ♦

### Particulars

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The views expressed in *Particulars* are not necessarily those of the American Association for Aerosol Research (AAAR).

## The AAAR 2001 Conference in Portland

(Continued from page 1)

AAAR 2001 also welcomes 14 exhibitors to the Conference. Representing premier vendors in the field, representatives of these companies will be available from Monday evening to Thursday at 3:00 pm. Please check the preliminary program, and schedule time to visit the exhibits. This will provide a wonderful opportunity to learn of the latest developments, and to discuss your applications with the informed sources.

I am also pleased that time is available for attendees to interact during the presentations and between sessions. Additional opportunities for greeting old friends, meeting new people, getting to know one another, and exchanging information will be available during the Exhibit Tour and Welcome Reception on Monday evening, the Exhibitor's Reception on Tuesday evening, and the Poster Sessions on Tuesday and Thursday. The traditional Awards Luncheon will take place on Wednesday. Participants in Working Group Meetings will discuss preparation for the AAAR 2002 programs and special initiatives on Wednesday evening.

We have a full schedule for the week that includes many educational and professional activities. Please join us in Portland for another outstanding AAAR conference.

### Specialty Symposium On Global Aerosol Climatology Database

A Specialty Symposium on Global Aerosol Climatology Database will take place on October 13th and 14th at the Portland Airport Embassy Suites Hotel, Portland, Oregon. These days immediately precede the AAAR Conference in Portland, and offer attendees the opportunity to save airfare by including a Saturday night stay. The symposium is

intended to bring together many individual researchers to discuss issues associated with data on aerosol measurements, their availability and accessibility, and database coordination and assimilation. The program includes 68 papers by leading aerosol scientists from around the world. Topics include overviews of several aerosol climatology/database efforts, as well as specific measurement programs ranging from satellite, aircraft, and balloon platforms, surface chemistry, radiometric networks and measurement programs, lidar and other remote sensing techniques, and modeling/data assimilation efforts. The preliminary program is available at [www.aaar.org](http://www.aaar.org).

The Aerosol Climatology Symposium is NOT included in your AAAR Conference registration. You must register for this Symposium separately. The registration fee is \$125 if you register before October 1st. Hotel reservations for the Symposium must be made separately. The Aerosol Climatology Symposium hotel is 10 miles from the DoubleTree Hotel Lloyd Center.

You may find that the airfare you save with the Saturday night stay will adequately cover the costs associated with attending the Aerosol Climatology Symposium.

We anticipate publication of the proceedings of the Symposium on Global Aerosol Climatology next year, as a peer-reviewed, hardcover book.

For further information, contact Program Chairman, Nels Laulainen, at [nels.laulainen@pnl.gov](mailto:nels.laulainen@pnl.gov).

### Second Symposium on History of Aerosol Science

The Second Symposium: History of Aerosol Science, will also take place on October 13th and 14th at the Portland Airport Embassy Suites Hotel, Portland, Oregon. This Symposium also offers

attendees the opportunity to save airfare by including a Saturday night stay in Portland. The Symposium follows in the footsteps of the First Symposium, organized by Othmar Preining in Vienna in 1999.

The program includes 29 papers by leading aerosol scientists from Europe and North America. Topics include biographies of early aerosol scientists, observations of aerosol phenomena by individuals who lived several hundred years ago, the history of aerosol activities at several research institutions, historical paths in the development of bimodal size distributions, personal historical aerosol journeys, and the history of several aerosol measurement technologies. The preliminary program is available at [www.aaar.org](http://www.aaar.org).

The History Symposium is also NOT included in your AAAR Conference registration. You must register for the History Symposium separately. The registration fee is \$175 if you register before October 1st. Hotel reservations for the Symposium must be made separately. The History Symposium hotel is 10 miles from the DoubleTree Hotel Lloyd Center.

The savings from the Saturday night stay may adequately cover the costs associated with attending the History Symposium.

The proceedings of the Symposium: History of Aerosol Science will be published next year as a peer-reviewed, hardcover book.

For further information, contact Program Chairman, Gilmore Sem, at [gsem@tsi.com](mailto:gsem@tsi.com). ♦

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## CALL FOR PAPERS

**6th International Aerosol Conference**  
**September 8-13, 2002**  
**Taipei International Conference Center**  
**Taipei, Taiwan**



Dear Friends and Colleagues,

The 6th International Aerosol Conference, hosted by the Chinese Association for Aerosol Research in Taiwan on behalf of the International Aerosol Research Assembly, will take place in Taipei, Taiwan, from September 8 to 13, 2002. On behalf of the host organization, we have the pleasure of inviting you to attend this foremost technical conference on aerosols.

With plenary lectures, platform and poster sessions, special symposia, the presentation of the Fuchs Award, tutorials, and exhibits, the Conference promises to attract researchers from around the world. Participants will not only benefit from the fruitful exchange of the latest information and ideas, but will also enjoy the palatable Oriental hospitality. The easily accessible city offers a wide choice of hotels and restaurants, ranging from the affordable to the magnificent. As an added feature, a guided tour of the Palace Museum will provide a rare opportunity to view countless ancient Chinese treasures. A tour to Hsinchu, the science city, to visit the Industrial Technology Research Institute and the science-based Industrial Park will also be available.

Authors are encouraged to submit abstracts electronically. Submit the abstract (Microsoft Word 2000 or earlier is the preferred format) as an email attachment to [iac2002@cc.nctu.edu.tw](mailto:iac2002@cc.nctu.edu.tw), and submit the **ABSTRACT AND AUTHOR INFORMATION** form online. The **ABSTRACT TEMPLATE** can be downloaded from [caart.org.tw/iac2002/iac2002.htm](http://caart.org.tw/iac2002/iac2002.htm).

If it is not possible to submit your abstract electronically, complete the **ABSTRACT AND AUTHOR INFORMATION** form, and mail it along with an IBM-compatible diskette containing the abstract, and one camera-ready hard copy to:

Conference Secretariat, IAC 2002  
Institute of Environmental Engineering  
National Chiao Tung University  
No. 75 Poai St., Hsin Chu 300  
Taiwan

We look forward to seeing you at IAC 2002 in Taipei. For the most current information, please visit our website at <http://caart.org.tw/>.

Technical Program Chair, Chiu-Sen Wang  
Conference Chair, Chuen-Jinn Tsai

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**FUCHS MEMORIAL AWARD****Nomination Invitation**

The Fuchs Memorial Award Committee invites you to nominate candidates for the 2002 Award, which will be presented at the Sixth International Aerosol Conference in Taipei, Taiwan, September 9 - 13, 2002.

This award, established in honor of the late Professor Nikolai Albertovich Fuchs (1895-1982), is awarded every four years in recognition of exceptionally meritorious research contributions to the field of aerosol science and technology. The award is intended as a continuing recognition of Professor Fuchs' contributions to the international scientific community, as well as a means of encouraging the same high standards among contemporary scientists in conducting aerosol research.

The regulations and procedures are published on the following page. Questions concerning the award can be directed to any of the Awards Committee Members. The deadline for all nominating materials is April 1, 2002. Nomination material (in six copies) should be submitted to the Awards Committee Secretary, Prof. John H. Seinfeld, at the California Institute of Technology by the deadline date.

The award program is jointly administered by the Gesellschaft für Aerosolforschung, the Japan Association of Aerosol Science and Technology, and the American Association for Aerosol Research (AAAR).

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## **FUCHS MEMORIAL AWARD**

### **Regulation and Procedure**

#### **1. AWARD**

- A. The Fuchs Award is intended to recognize outstanding original research contributions to aerosol science and technology.
- B. Preference shall be given to achievement by a single individual, but the award may be conferred upon a team of not more than three individuals, or shared by two individuals judged to be equally meritorious.
- C. The award consists of a certificate, a citation, invitation(s) to the award luncheon (or dinner), and a \$10,000 award. The cash award will be shared equally when two or more individuals are selected.
- D. The award is presented every four years, during the International Aerosol Conference.

#### **2. NOMINATION**

- A. Nominations of candidates for the award are invited by public announcement, and by letter to individuals and institutions whose interests are related to aerosol research. Any member of any International Aerosol Research Assembly member organization may submit a nomination.
- B. Nomination is made by a full letter of justification, including a curriculum vitae and bibliography. At least three supporting letters are to be included in the nomination. Members of the awards committee are ineligible from writing reference letters for the candidates. The nominator is responsible for preparing the complete dossier for submission. Six copies are to be submitted to the Committee Secretary by the published nomination deadline.
- C. Nominations will not be carried over to the following award period. However, any candidate can be renominated.
- D. Only living nominees will be considered. The nominee need not be a member of the aerosol organizations.

#### **3. SELECTION**

- A. The awards committee will be composed of two representatives from each of the three associations (American Association for Aerosol Research, Gesellschaft für Aerosolforschung, and Japan Association of Aerosol Science and Technology). The committee will review all nominations in closed sessions on a one-vote-per-association basis.
  - B. The awards committee has the discretionary power not to select an awardee in any given period.
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## REMEMBERING GLEN CASS (1947-2001)

*Bill Nazaroff, Cliff Davidson, Susanne Hering, and Ted Russell*

Professor Glen R. Cass died on July 30, 2001 at age 54. Although it ended prematurely, Glen enjoyed a distinguished career as an educator, researcher, and academic leader. He was Chair of the School of Earth and Atmospheric Sciences at the Georgia Institute of Technology, a position he held since January 2000. He was also Professor of Environmental and Mechanical Engineering at the California Institute of Technology, where he taught for 24 years. At the time of his death, Glen held joint faculty appointments at Caltech and Georgia Tech. He was Vice President-Elect of AAAR.

Glen's career focused on understanding air pollution problems. He loved the science of air pollution. But what really got his juices flowing was figuring out how to solve big air pollution problems. His research group boldly tackled and made impressive progress on many fronts, including measuring chemical fingerprints of the sources of fine organic aerosols, developing strategies for improving complex urban air pollution problems, and protecting cultural artifacts from air pollution damage. Any one of these could have been enough to occupy a good career. Glen made great strides on these issues.

Glen consistently exhibited a clear vision of what was needed to make research progress. Then he set out to achieve it. He was blessed with enormous energy and determination. When he initiated a new research project, he seemed to have no sense of the possibility or consequences of failure. Later, there were moments of doubt when Glen stated that he was overextended with too many new projects. When asked how this happened, he replied that there were just too many interesting research questions to pursue. Overextended or not, his research endeavors were consistently and remarkably successful.

Glen impressed those around him with his unbridled enthusiasm, not only for his own work, but also for any new, genuine contribution to the field. He was eager to share his great understanding of air pollution with others. Once, a student at another university was interested in updating a mass balance for lead in Los Angeles, which had been originally computed in the 1970s when leaded gasoline was the dominant source. A quick question to Glen not only yielded information on emission factors for resuspended road dust, but the ensuing conversation lasted hours, and ultimately resulted in a three-year NSF grant to explore resuspension as a source of lead in Los Angeles. You were well advised not to ask Glen a question unless you had time (and energy) for the answer!



An excellent mentor, Glen set high standards for his students. He worked diligently with them, and on their behalf, to ensure that they achieved the most they could. (It seems that this was usually much more than the students imagined they could accomplish!) He would spend countless hours working with a student on a draft of a paper, or on a conference presentation, making sure it was just right. Many of his 17 PhD graduates have gone on to successful academic careers.

Glen continued to collaborate with some in research long after their graduation. For others, he remained a strong mentor throughout his career. For all, he was an excellent role model of how to interact with students.

Glen approached his illness in much the same way that he approached his work. He did not dwell on limitations or weaknesses; in fact, he would barely acknowledge them. Instead, he preferred to focus on positive achievements and possibilities. Throughout his career, he was consistently cheerful and kind in his interactions with colleagues and students. The outpouring of more than 120 messages to him in the last week of his life, when his illness became known, is just one small indication of how much he meant to all of us. His last days were marked by the same concerns that he showed throughout his career: improving air quality and ensuring along the way that his students, research staff, and faculty colleagues would continue to excel. He has left us a great legacy in his published research and, more so, by the enormous number of people whose lives he influenced professionally and personally. We will miss him greatly.

Contributions in Glen's memory may be made to the Georgia Tech Foundation for the Glen R. Cass Scholarship Fund. Georgia Tech will hold a memorial service in Glen's memory on September 21 at 2:00 pm at the Clary Theater in the Student Success Center. For more information, contact Rita Bryan at 404-894-3955, or by e-mail: [rita.bryan@eas.gatech.edu](mailto:rita.bryan@eas.gatech.edu).

Additional information about Glen and his professional accomplishments may be found at these websites: [www.eas.gatech.edu/easscholarship.html](http://www.eas.gatech.edu/easscholarship.html), [www.news-info.gatech.edu/newsreleases/glencass.html](http://www.news-info.gatech.edu/newsreleases/glencass.html), [pr.caltech.edu/media/Press\\_Releases/PR12168.html](http://pr.caltech.edu/media/Press_Releases/PR12168.html) [pubs.acs.org/subscribe/journals/esthag-w/2001/aug/business/kb-obit.html](http://pubs.acs.org/subscribe/journals/esthag-w/2001/aug/business/kb-obit.html). ♦

## AAAR 2001 SPECIAL EVENTS

### WELCOME RECEPTION

**MONDAY, OCTOBER 15, 6:00 pm - 8:00 pm**

Here is your chance to meet and greet the exhibitors. Representatives from well-known and respected vendors will be happy to tell you about their products, and talk with you about the latest in technology and advances in the field.

### EXHIBITORS' RECEPTION AND POSTER SESSION

**TUESDAY, OCTOBER 16, 4:30 pm - 7:00 pm**

**RECEPTION IS FROM 5:00 pm - 7:00 pm**

The Exhibitors' Reception, a AAAR tradition, is a time to visit with the exhibitors and all Conference attendees in an informal, relaxed atmosphere. During the reception, visit with the authors of the posters.

### AWARDS LUNCHEON

**WEDNESDAY, OCTOBER 17, 12:30 pm - 2:00 pm**

Join us in honoring the recipients of AAAR's major awards: The Kenneth T. Whitby Award, The David Sinclair Award, The Sheldon K. Friedlander Award, and The Thomas T. Mercer Joint Prize.

The luncheon will pay tribute to the current Conference Chair, Yung Sung Cheng, and his Committee, as well as others who have served AAAR during the year. During this event, the ceremonial passing of the gavel will mark the transfer of leadership responsibilities from David Y.H. Pui to incoming President, Patricia B. Keady. Don't miss this opportunity to join your colleagues in celebrating the accomplishments of AAAR members. Space is limited, so be sure to mark your registration form, and add \$32 to your total if you wish to attend this event. A special student rate of \$16 is also available.

*Special Note: AAAR will be celebrating its 20th Anniversary during this year's Awards Luncheon.*

### POSTER SESSION AND LUNCH

**THURSDAY, OCTOBER 18, 12:10 pm - 2:30 pm**

**LUNCH WILL BE SERVED FROM 12:10 pm - 1:30 pm**

View the many poster presentations, and get acquainted with the authors while enjoying a boxed lunch.



**20th Annual AAAR Conference  
October 15-19, 2001  
DoubleTree Hotel Portland Lloyd Center  
Portland, Oregon**

### **EXHIBIT HOURS**

Come and see the exhibits located on the First Level in the Lloyd Center Ballroom:

Monday  
6:00 pm - 8:00 pm  
Tuesday  
12:15 pm - 2:00 pm  
4:30 pm - 7:30 pm  
Wednesday  
10:00 am - 12:30 pm  
Thursday  
12 Noon - 3:00 pm

### **REGISTRATION HOURS**

Sunday  
5:00 pm - 8:00 pm  
Monday  
7:00 am - 5:00 pm  
Tuesday  
7:00 am - 4:30 pm  
Wednesday  
7:30 am - 4:30 pm  
Thursday  
7:30 am - 4:30 pm  
Friday  
7:30 am - 12 Noon



## AAAR 2001 CONFERENCE SCHEDULE

### Sunday, October 14, 2001

- 5:00 pm–8:00 pm Registration  
8:30 pm–9:30 pm Student Assistants Orientation Meeting

### Monday, October 15, 2001

- 7:00 am–8:00 am Coffee Break  
7:00 am–5:00 pm Registration  
7:00 am–5:00 pm Speakers Room Open  
7:30 am–2:00 pm Board of Directors Meeting  
8:00 am–9:30 am Tutorial Sessions  
1. An Introduction to Aerosol Mechanics I  
2. Photochemistry of Atmospheric Particles and Aqueous Drops  
3. Aerosols and the Respiratory Tract: A Primer  
4. Nanoparticles as Building Blocks For Structured Materials And Electronic Devices  
8:00 am–4:00 pm Publications Committee Meeting  
10:00 am–11:40 am Tutorial Sessions  
5. An Introduction to Aerosol Mechanics II  
6. Organic Aerosol: Analysis, Source Markers, and Source Receptor Reconciliation  
7. Sampling of Aerosol from Aircraft  
8. Light Scattering from Single Particles and Aggregates - An Intuitive Approach  
1:00 pm–2:40 pm Tutorial Sessions  
9. Indoor Aerosols  
10. Introduction to Visibility Concepts  
11. Modeling of Airflow and Particle Deposition in the Respiratory Tract  
12. Sampling and Characterization of Particles from Diesel Engines  
2:00 pm–5:00 pm Executive Committee Meeting  
3:00 pm–4:40 pm Tutorial Sessions  
13. The Evaluation and Calibration of Aerosol Samplers  
14. Modeling of Atmospheric Aerosol Processes  
15. Analysis of Bioaerosols: Non-Culture Based Methods for Characterizing Microorganisms in Aerosols  
16. Detecting Perceptions of Aerosols in Society, Art, Literature, and Film  
6:00 pm–8:00 pm Exhibit Tour and Welcome Reception

### Tuesday, October 16, 2001

- 7:00 am–8:00 am Coffee Break  
7:00 am–4:30 pm Registration  
7:30 am–4:30 pm Speakers Room Open  
8:00 am–9:00 am Plenary Session: ATMOSPHERIC AEROSOL SCIENCE FOR PUBLIC POLICY–THE NARSTO PM ASSESSMENT, James S. Vickery, U.S. EPA, Research Triangle Park, NC  
9:00 am–9:15 am Coffee Break  
9:15 am–10:35 am PLATFORM SESSION I  
A. Direct Effects of Aerosols on the Ecosystem I

- B. Atmospheric Aerosol Chemistry I  
C. Marine and Stratospheric Aerosols  
D. Coagulation/Agglomeration  
E. Respiratory Tract I: Deposition Modeling  
10:35 am–10:50 am Coffee Break  
10:50 am–12:10 pm PLATFORM SESSION II  
A. Direct Effects of Aerosols on the Ecosystem II  
B. Bioaerosols  
C. Urban Aerosols  
D. Deposition/Resuspension  
E. Respiratory Tract II Experiment  
11:30 am–1:30 pm AAAR Board of Directors Meeting/Luncheon  
12:10 pm–1:30 pm Lunch (on your own)  
12:15 pm–2:00 pm Exhibits Open  
1:30 pm–2:50 pm PLATFORM SESSION III  
A. Filtration  
B. Atmospheric Aerosol Chemistry II  
C. PM 2.5 Apportionment I  
D. Electrical Charging  
E. Respiratory Tract III: Aerosol Generation  
3:30 pm–4:30 pm AAAR Annual Business Meeting  
4:30 pm–7:00 pm POSTER SESSION IV (Exhibit Area)  
A. Direct Effects of Aerosols on the Ecosystem Symposium III  
B. Control Technology  
C. Indoor Air Pollution  
D. Atmospheric Aerosol Characterization  
E. Sampling and Analysis of Atmospheric Aerosols  
F. Coagulation/Agglomeration II  
G. Nucleation/Condensation III  
H. Aerosol Transport II  
I. Respiratory Tract V  
J. Respiratory Tract VI  
K. Global Aerosol Climatology Database Symposium  
5:00 pm–7:00 pm Exhibitors' Reception  
8:00 pm–9:00 pm Working Group Chair Strategic Meeting

### Wednesday, October 17, 2001

- 7:00 am–8:00 am Coffee Break  
7:00 am–8:00 am Long Range Planning Committee Meeting  
7:30 am–4:30 pm Registration  
7:30 am–4:30 pm Speakers Room Open  
8:00 am–9:00 am Plenary Session: THE ART OF AEROSOL, Peter Brimblecombe, Univ of East Anglia, UK  
9:00 am–9:15 am Coffee Break  
9:15 am–10:35 am PLATFORM SESSION V  
A. Testing and Modeling of Control Technology  
B. Radiative Effects of Atmospheric Aerosols  
C. PM 2.5 Apportionment II

## AAAR 2001 CONFERENCE SCHEDULE - CONTINUED

D. Nucleation/Condensation I  
 E. Respiratory Tract IV: Aerosol Characterization  
 10:00 am–12:30 pm Exhibits Open  
 10:35 am–10:50 am Coffee Break  
 10:50 am–12:10 pm PLATFORM SESSION VI  
 A. Indoor/Outdoor Comparison  
 B. Hygroscopic Growth I  
 C. SVOC Partitioning and SOA  
 D. Nucleation/Condensation II  
 E. NIST Centennial Symposium  
 12:10 pm–2:00 pm Lunch (on your own)  
 12:30 pm–2:00 pm Awards Luncheon (Reservations Only)  
 2:00 pm–3:20 pm PLATFORM SESSION VII  
 A. Modeling/Monitoring of Indoor Aerosols  
 B. Hygroscopic Growth II  
 C. Organic Aerosol I  
 D. Scattering/Small Particles  
 E. NIST Centennial Symposium II  
 3:20 pm–3:30 pm Break  
 3:30 pm–4:50 pm PLATFORM SESSION VIII  
 A. Combustion I: Inorganic Aerosols and Soot  
 B. Cloud/Fog Aerosol Interaction I  
 C. Organic Aerosol II  
 D. Aerosol Transport  
 E. NIST Centennial Symposium III  
 5:00 pm–7:00 pm Working Groups Meetings

**Thursday, October 18, 2001**

7:00 am–8:00 am Coffee Break  
 7:00 am–8:00 am Publications Committee Meeting  
 7:30 am–4:30 pm Registration  
 7:30 am–4:30 pm Speakers Room Open  
 8:00 am–9:00 am Plenary Session: SCIENCE IS NOT ENOUGH,  
 Col. Eric G. Daxon, U.S. Army  
 9:00 am–9:15 am Coffee Break  
 9:15 am–10:35 am PLATFORM SESSION IX  
 A. Combustion II: Characterization  
 B. Cloud/Fog Aerosol Interaction II  
 C. Organic Aerosol III  
 D. Instrumentation I  
 E. Aerosol in China Symposium I  
 10:35 am–10:50 am Coffee Break  
 10:50 am–12:10 pm PLATFORM SESSION X  
 A. Nanoparticle Synthesis I  
 B. Atmospheric Aerosol Modeling - Global  
 C. Motor Vehicle Emissions  
 D. Instrumentation II  
 E. Aerosol in China Symposium II  
 12:00 pm–3:00 pm Exhibits Open  
 12:10 pm–1:30 pm Lunch (complimentary boxed lunch served)  
 12:10 pm–2:30 pm POSTER SESSION XI  
 A. Combustion III  
 B. Nanostructured Materials  
 C. Modeling of Atmospheric Aerosols

D. Atmospheric Aerosols - General  
 E. Chemical and Physical Characterization  
 F. Nanometer Particle Measurements  
 G. Sampling and Analysis  
 H. Aerosol Chemistry  
 I. Aerosol in China IV  
 J. Ultrafine Particles IV  
 K. NIST Symposium IV  
 12:15 pm–1:30 pm AS&T Editors Luncheon  
 1:30 pm–2:50 pm PLATFORM SESSION - Aerosol in China  
 Symposium III  
 2:30 pm–2:45 pm Break  
 2:45 pm–4:05 pm PLATFORM SESSION XII  
 A. Nanoparticle Synthesis II  
 B. Atmospheric Aerosol Modeling I  
 C. PM 2.5 Characterization  
 D. Chemical Characterization Techniques  
 E. Ultrafine Particles in the Atmosphere Symposium I  
 4:05 pm–4:20 pm Break  
 4:20 pm–5:40 pm PLATFORM SESSION XIII  
 A. Nanoparticle Synthesis III  
 B. Atmospheric Aerosol Modeling II  
 C. Atmospheric Aerosol Sampling and Analysis I  
 D. Impaction Instruments  
 E. Ultrafine Particles in the Atmospheric Symposium II  
 6:00 pm–7:00 pm AAAR 2002 Strategic Planning Meeting

**Friday, October 19, 2001**

7:00 am–8:00 am Coffee Break  
 7:30 am–12:15 pm Registration  
 7:30 am–12:15 pm Speakers Room Open  
 8:00 am–9:00 am Plenary Session: PHARMACEUTICAL AEROSOLS:  
 THE CONTINUING REVOLUTION, Andrew R.  
 Clark, Inhale Therapeutic Systems, San Carlos, CA  
 9:00 am–9:15 am Coffee Break  
 9:15 am–10:35 am PLATFORM SESSION XIV  
 A. Semiconductor Processing I  
 B. Atmospheric Aerosol Modeling III  
 C. Atmospheric Aerosol Sampling and Analysis II  
 D. Mass Spectrometry  
 E. Ultrafine Particles in the Atmosphere Symposium III  
 10:35 am–10:50 am Break  
 10:50 am–12:10 pm PLATFORM SESSION XV  
 A. Semiconductor Processing II  
 B. Regional and Remote Aerosols  
 C. New Characterization Techniques  
 D. Optical Methods  
 E. Aerosol Chemistry  
 12:15 pm–5:00 pm AAAR Board of Directors Meeting

### Conference Committee

Yung Sung Cheng, Program Chair  
Jeffrey Collett, Jr., Tutorial Chair  
Tyler Beck, Exhibits Chair  
Ann Dillner, Student Assistants Chair

### Technical Program Committee

Bahman Asgharian  
James Gentry  
Joseph Helble  
Murray Johnston  
Chong S. Kim  
Sonia Kreidenweis  
Antonio Miguel  
Peter Raynor  
Jamie Schauer  
Ronald Siefert  
Barbara Wyslouzil

### Hotel Accommodations

As honored guests, you are about to experience the most exciting facility of its kind in America! Just as comfort, style and grace are DoubleTree traditions, so are the freshly baked chocolate chip cookies that celebrate your arrival. DoubleTree is an experience you are sure to savor. The American Association for Aerosol Research (AAAR) has reserved a block of rooms at the group rate of \$118.00 per night/standard single/double occupancy, or \$136.00 per night/premium single/double occupancy. You can reserve your room by calling the DoubleTree Hotel directly at 1-800-996-0510 or 503-281-6111, and asking them for the AAAR room block. The deadline for hotel reservations is **September 22, 2001**. After this date, room reservations and rates are subject to availability.

### Airline Reservations

Delta Airlines is offering special rates for all attendees of the AAAR 2001 Conference, allowing a 5% discount off Delta's published round-trip fares within the continental U.S., Hawaii, Canada, Mexico, Bermuda, San Juan, Nassau, and the U.S. Virgin Islands. A 10% discount on Delta's domestic system for travel to the meeting, based on the published, unrestricted round-trip coach (Y06) rates, is also available. To take advantage of these discounts, call Delta Airlines at 1-800-241-6760, and mention file number **176724A**. Applicable restrictions must be met. Seating is limited. No discounts apply on Delta Express.

### CM Points

Application has been made to the American Board of Industrial Hygiene for Certification Maintenance points. Industrial hygienists receive .5 IH CM point per day, 5.0 IH CM points total. The approval code is 15821.

### Cancellation Policy

All cancellations must be made in writing and sent to the AAAR office. All conference cancellations are subject to a \$75 processing fee. No refunds will be issued on written requests received after August 31, 2001.

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# AAAR 2001 Annual Conference Registration Form

October 15 – 19, 2001, Portland, Oregon

Office Use Only

Date Received

P C

Check # \_\_\_\_\_ Amt \_\_\_\_\_

Name: \_\_\_\_\_

Last Name/Surname

First Name

Middle Initial

Name to appear on badge

Affiliation \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State / Province \_\_\_\_\_ Country \_\_\_\_\_ Zip / Postal Code \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

Special Requests(i.e., Vegetarian): \_\_\_\_\_

## CONFERENCE FEES (EXCLUDES ADDITIONAL TUTORIAL FEES LISTED BELOW\*)

Membership Registration (includes 2002 dues & AS&T)	\$495	\$ _____
Non-Member Registration (for those who do not wish to join AAAR)	\$495	\$ _____
Student Registration (includes 2002 dues/not AS&T; please fax Univ enrollment/class schedule)	\$100	\$ _____
Retiree Registration (includes 2002 dues, but not AS&T)	\$100	\$ _____
Organizational Sponsor Registration (included with Organizational Sponsor Fee)	\$ 0	\$ _____
1-Day Conference Registration Circle day: TU W TH F	\$280	\$ _____
1-Day Student Registration Circle day: TU W TH F	\$ 40	\$ _____
1-Day Tutorials Registration (Monday only, does not include additional tutorial fees below)	\$140	\$ _____

## SPECIAL EVENT (HELD ON WEDNESDAY, OCTOBER 17, 2001)

Awards Luncheon 12:30 pm – 2:00 pm	\$32 # requested _____	\$ _____
Student Fee / Awards Luncheon	\$16 # requested _____	\$ _____
Name(s) of guest(s) _____		

## \*TUTORIAL FEES / MONDAY, OCTOBER 15, 2001

### ONE TUTORIAL

Regular Rate	\$110	\$ _____
Student Rate	\$55	\$ _____
Org. Sponsor	\$80	\$ _____

### THREE TUTORIALS

Regular Rate	\$270	\$ _____
Student Rate	\$135	\$ _____
Org. Sponsor	\$210	\$ _____

### TWO TUTORIALS

Regular Rate	\$200	\$ _____
Student Rate	\$100	\$ _____
Org. Sponsor	\$150	\$ _____

### FOUR TUTORIALS

Regular Rate	\$320	\$ _____
Student Rate	\$160	\$ _____
Org. Sponsor	\$260	\$ _____

Total \$ \_\_\_\_\_

Please check only one per time period.

Session 8:00 am – 9:40 am	Session 10:00 am – 11:40 am	Session 1:00 pm – 2:40 pm	Session 3:00 pm – 4:40 pm
<input type="checkbox"/> INTRO. TO AEROSOL MECHANICS I	<input type="checkbox"/> INTRO. TO AEROSOL MECHANICS II	<input type="checkbox"/> INDOOR AEROSOLS	<input type="checkbox"/> EVALUATION / CALIBRATION AEROSOL SAMPLERS
<input type="checkbox"/> PHOTOCHEMISTRY ATMOS. PARTICLES	<input type="checkbox"/> ORGANIC AEROSOL	<input type="checkbox"/> VISIBILITY CONCEPTS	<input type="checkbox"/> ATMOS. AEROSOL PROCESSES
<input type="checkbox"/> AEROSOL AND RESPIRATORY TRACT	<input type="checkbox"/> SAMPLING OF AEROSOLS FROM AIRCRAFT	<input type="checkbox"/> MODELING OF AIRFLOW, PARTICLE DEPOSITION	<input type="checkbox"/> ANALYSIS OF BIOAEROSOLS
<input type="checkbox"/> NANOPARTICLES AS BUILDING BLOCKS	<input type="checkbox"/> LIGHT SCATTERING FROM SINGLE PARTICLES AND AGGREGATES	<input type="checkbox"/> SAMPLING AND CHARACTERIZATION - DIESEL ENGINES	<input type="checkbox"/> PERCEPTION OF AEROSOLS

## AWARD DONATION (OPTIONAL)

Which award would you like your donation to be allotted? Please circle. WHITBY SINCLAIR MERCER FRIEDLANDER  
(A description of these awards appears on our website at [www.aaar.org/awards.htm](http://www.aaar.org/awards.htm).) \$ \_\_\_\_\_

## ABSTRACT BOOK \*\*

☐ I would like to purchase an extra copy of the 2001 Conference Abstract Book # of copies \_\_\_\_\_ x \$45 \$ \_\_\_\_\_

\*\*Those registering onsite will no longer receive a complimentary copy of the Abstract Book. Copies of the book may be purchased onsite for \$50.00

TOTAL AMOUNT DUE \$ \_\_\_\_\_

CANCELLATION POLICY: Registration cancellations received by AAAR on or before August 31, 2001 will be subject to a \$75 cancellation fee. No other refunds will be made. Registration cancellations must be made in writing. No-shows will be billed.

If paying by credit card, please fax Registration form to Anita Schmid at 513-742-3355

Circle One: Visa® MC® AMEX® Discover® Exp. Date \_\_\_\_\_

Card # \_\_\_\_\_

Cardholder's Name \_\_\_\_\_

Cardholder's Signature \_\_\_\_\_

Check for \$ \_\_\_\_\_ enclosed. (U.S. funds drawn on U.S. bank)

Please send Registration to:

AAAR 2001 Annual Conference

1278 Solutions Center

Chicago, IL 60677-1002

Phone: 513-742-2227 Fax: 513-742-3355

Email: [mail@aaar.org](mailto:mail@aaar.org)

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



**October 7-11, 2002**  
**Adam's Mark Hotel**  
**Charlotte, North Carolina**

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details on the  
AAAR Website at  
[www.aaar.org](http://www.aaar.org)



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