



PARTICULARS

NEWSLETTER OF THE AMERICAN ASSOCIATION FOR AEROSOL RESEARCH

WINTER 2002

EPILOGUE OF 2002 ANNUAL CONFERENCE

by Chong S. Kim, 2002 conference chair

The memories of the 2002 annual conference this October in Charlotte, NC are still lingering in my mind. It was a very successful meeting not only by the quality of presentations but also by the number of participants. The hotel facilities and services were excellent. Many people expressed their satisfaction with the meeting. I hope you also agree with them.

We had a total of 575 presentations including 264 platforms and 311 posters. There were more than 630 registered participants and many of them came abroad from 24 different countries. This clearly indicates that the AAAR meeting is recognized worldwide as a leading scientific forum and it has become truly an international conference.

AAAR has entered the competitive market of scientific meetings and it is not too early to engage in the business-like market analysis and product evaluation in order to expand our horizon. In this regard, a few meeting statistics may be helpful: of about 100 international attendants, United Kingdom sent the largest number of delegates followed by

South Korea, Republic of China (a.k.a. Taiwan), Japan, Canada and Finland. From the domestic side, 39 States registered their names. California led the number of

participants followed by North Carolina, New York, Minnesota, Maryland, Pennsylvania and Massachusetts. As a region, the largest attendance came from the Eastern seaboard states followed by Pacific West and Midwest States. Nearly 90 presentations were made by students and more than 60 % of presenters preferred platform presentations vs. poster. Among the



subject categories, the largest number of abstracts (nearly 35%) was submitted for the category of Atmospheric Aerosols. Other leading categories were Aerosol Physics, Instrumentations, Combustion and Health Related Aerosols. These data are useful for correctly identifying our customer base and preparing for future conferences.

It is noteworthy that preparations for the 2002 annual conference were embarked three months behind the usual schedule because of the change of management company. As a result, the schedule was very tight and we could not afford to handle any unexpected events. There were a couple of panic moments when we noticed that the number of abstracts received was far below the expected near the deadline and when a large number of abstracts was suddenly cancelled at the last minute. Now, all of these moments have become a fond memory. I thank members of the Conference Committees and the staff of the AAAR management team who worked together and helped plant these fond memories in our hearts. I am looking forward to seeing you again in Anaheim for the 2003 Conference.

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PARTICULATE MATTER: ATMOSPHERIC SCIENCES, EXPOSURE AND THE FOURTH COLLOQUIUM ON PM AND HUMAN HEALTH

March 31-April 4, 2003

**An International Conference Managed by the
American Association for Aerosol Research**

Conference Chairs

Cliff I. Davidson, Carnegie Mellon University

Robert Phalen, University of California at Irvine

Paul Solomon, EPA/ORD



The first-ever AAAR Specialty Conference promises to be a landmark event. With several hundred poster presentations and more than 100 invited speakers, the innovative format of this conference is sure to be a major draw. After a poster viewing session Monday evening March 31, the conference features 15 workshops on Tuesday April 1 organized by leaders in PM research. Seven of these workshops address atmospheric sciences while eight focus on health effects and human exposure. The workshops include invited platform speakers, poster discussions, and open discussion with the audience on the specific topics of interest. The workshops are followed by poster viewing on Tuesday evening. There are three plenary sessions on Wednesday, three plenary sessions on Thursday, and two plenary sessions plus wrap-up on Friday.

The plenary sessions



cover broad questions that bring together the atmospheric science community and the health and welfare effects communities. These sessions are expected to provide state-of-the-art information of value to researchers as well as to decision makers.

Each plenary session consists of an introduction by the Plenary Session Chair, two talks by experts summarizing the state-of-the-art, a period dedicated to poster viewing, a panel discussion featuring experts with varying views on the question, open discussion and comments from the audience, and an integrative summary by a leader in the field.

The meeting also features receptions and exhibits in a most attractive setting next to Point State Park in downtown Pittsburgh.

Authors who make platform or poster presentations at the conference are invited to submit papers to special issues of several journals: *Aerosol Science and Technology*, *Journal of Geophysical Research*, *Atmospheric Environment*, *Journal of the Air and Waste Management Association*, *Inhalation Toxicology*, and possibly others.

Dates to remember:

January: Preliminary Program on the Conference Web Site

February 1: Early Bird Conference Registration
Deadline: \$350 (<http://www.aaar.org>)

March 1: Late Breaking Poster Deadline

March 20: Final Program on the Conference Web Site

March 31: Conference begins in the evening

June 30: Deadline for submission of papers to special issues of journals

Hotel cost: \$79 single, \$89 double. But make reservations early - these rates apply only until the room block is filled! Pittsburgh Hilton: 412-391-4600.

See you in Pittsburgh!!

NOBLE, WYSLOUZIL, PUI, AND WOLFF NAMED AS 2002 PRIZE WINNERS

Submitted by Chris Sorenson

This year's winners of AAAR's four awards were honored during plenary sessions at the annual conference in Charlotte, NC. The awards were announced and presented by the Awards Committee Chair, Chris Sorenson. The Awards Committee consisted of Pratim Biswas, Tai Chan, Heinz Fissan, Lynn Hildemann, Nels Laulainen, George Mulholland, and Gil Sem.

Christopher A. Noble was awarded the **Sheldon K. Friedlander Award** for an outstanding doctoral dissertation in the 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. Under the guidance of Professor Kim Prather, Dr. Noble played a pivotal role in developing aerosol time-of-flight mass spectrometry (ATOFMS), which yields real-time, precise size and chemical compositions of individual aerosol particles. This instrument was subsequently developed commercially by TSI and recently selected for a 2000 R&D 100 award. One referee remarked that Noble's thesis is "a marvelous compendium of ATOFMS and an exhaustive study involving development, calibration and wide ranging application of the technique." Dr. Noble is currently a Research Scientist at Research Triangle Park, NC.

Barbara E. Wyslouzil received the **Kenneth T. Whitby Award**, which recognizes outstanding technical contributions to aerosol science and technology by a young scientist. The award memorializes Whitby, who was known for his contributions to aerosol measurement, the study of aerosol properties and behavior, and the nature of atmospheric aerosols. Professor Wyslouzil is known internationally for her experimental and computational contributions to the field of vapor phase nucleation and aerosol formation, especially her development of the novel application of small angle neutron scattering to aerosols which allows unprecedented detailed information to be obtained about the aerosol and the particles themselves. She is described as, "a remarkably talented and dedicated researcher," with "high standards of scientific honesty and integrity." Dr. Wyslouzil is currently Associate Professor of Chemical Engineering at the Worcester Polytechnic Institute.

The **David Sinclair Award** was presented to David Y.H. Pui of the University of Minnesota. This 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 was established in memory of Sinclair, one of aerosol science's great innovators, who was known for his knowledge, ingenuity, and energy. Professor Pui's research deals with fundamental and applied research in basic charge transfer processes in aerosol systems, aerosol sampling, transport and deposition mechanics, aerosol filtration and separation, aerosol instrumentation, and nanoparticle applications. An exciting new area he and his students have focused on during the past few years is the development of instruments for the generation, classification and measurement of nanoparticles in the size range of 2-100nm. He has published approximately 220 papers, 135 of which are in refereed journals. He is also an inventor or co-inventor of nine patents and two pending patents. Many of the instruments he developed are used widely around the world. One referee remarked that Professor Pui's, "papers are marked by a tightness of argument and rigor of experiment...they are often instant classics." He has also served AAAR in many ways including president in 2000-2001. Dr. Pui is currently Distinguished McKnight University Professor and Director of the Particle Technology Laboratory at the University of Minnesota.

The **2002 Thomas T. Mercer Joint Prize** was awarded to Ronald K. Wolff. Sponsored by AAAR and the International Society for Aerosols in Medicine, 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. Dr. Wolff has published more than 100 articles on topics including inhalation toxicology, effects of air pollutants, deposition and clearance of particles from the lung and pharmaceutical aerosols. He is a Diplomat of the American Board of Toxicology, a winner of the Frank R. Blood Award (Society of Toxicology, 1989), and a member of the editorial boards of Aerosol Science and Technology and the Journal of Aerosol Medicine. He has also been a member of the board of directors of the

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International Society of Aerosols in Medicine, and is a past-president of the American Association for Aerosol Research. Dr. Wolff is a nationally and internationally recognized expert on inhalation toxicology and delivery of inhaled therapeutic aerosols. Referee's remarked that two critical review papers Dr. Wolff has authored stand as classics in the field of medicinal aerosols and have had wide impact on the evaluation of medicinal aerosols and their commercialization. Ron Wolff is currently leader of the Inhalation Toxicology group at Lilly Research Laboratories, a division of Eli Lilly and Company, in Greenfield, Indiana.

HEI ANNOUNCES UPCOMING AGENDA

The Health Effects Institute (HEI) announces its upcoming Winter 2003 Research Agenda. The Requests For (Preliminary) Applications will be published in early January on the website at www.healtheffects.org/funding.htm.

The following RF(P)As are included:

- RFA 03-1: Assessing Exposure to Air Toxics
- RFA 03-2: Walter A. Rosenblith New Investigator Award
- RFPA 03-3: Measuring the Health Impact of Actions that Affect Air Quality
- RFPA 03-4: Health Effects of Air Pollution

Please refer to the website for a short description of the RFAs, and their respective deadlines and contact information (this information has already been posted). You can also find HEI's research priorities and the eligibility criteria for the New Investigator Award on the website. If you have questions, please call (617) 886-9330 ext 345 or email tfasulo@healtheffects.org.



THANK YOU

AAAR wishes to extend a special thank you to TSI, Incorporated for their generous support in donating the annual conference registration bags.

Thank you to the AAAR Organizational Members for their continued support of AAAR

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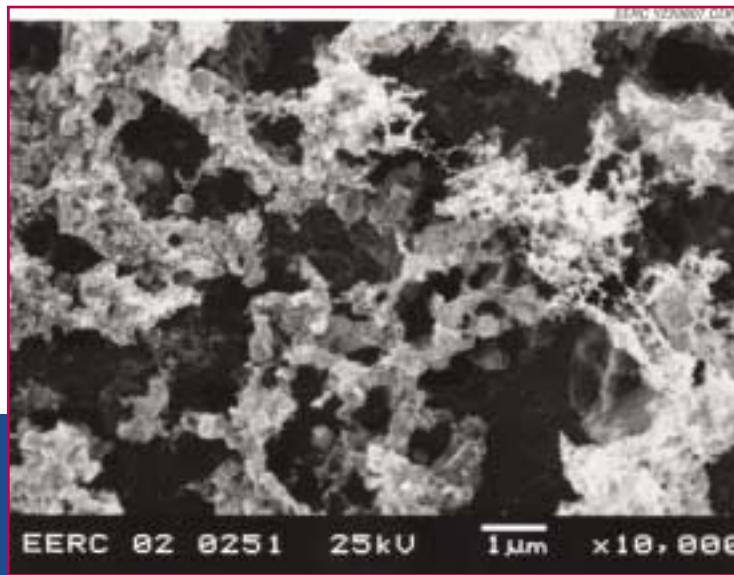
AAAR gratefully acknowledges the following companies for their participation at the 2002 Annual Conference.

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AEROSOLS IN THE SPOTLIGHT

Welding fume, imaged using scanning electron microscopy. From energy dispersive X-ray spectrometry, the particles were found to contain iron, manganese, aluminum and silicon.

Image supplied by Ye Zhuang of the University of North Dakota's Energy and Environmental Research Center.



"Aerosols In The Spotlight" is a new feature in *Particulars*. We are soliciting interesting images of aerosols, not published elsewhere, to feature in future issues. If you would like to contribute an image, please email it, along with a brief caption (no more than 50 words) to the editor, lmontoya@hsph.harvard.edu

MASS-AWMA FALL CONFERENCE DISCUSSES ENVIRONMENTAL INITIATIVES IN NEW JERSEY

By Rachel Kron, MSPH
Tetra Tech EM Inc.

On September 20, 2002, the Mid-Atlantic States Section of the Air and Waste Management Association (MASS A&WMA) sponsored its fall conference at the New Jersey Department of Environmental Protection (NJDEP) building located in Trenton, NJ. The focus of the conference was to discuss (the) Environmental Initiatives of the NJDEP under the direction of the new NJDEP Commissioner, Bradley M. Campbell. The conference was a full day event. Eleven speakers participated including the Assistant Commissioners from the air, waste, compliance, and other regulatory areas departments in the NJDEP, Gary Sondermeyer, Chief of Staff at NJDEP, and Dr. Eddy Bresnitz from the New Jersey Department of Health and Senior Services (NJDHSS), all of whom discussed the new environmental initiatives within the new administration in New Jersey.

The Mid-Atlantic Section covers the entire state of Delaware, the entire state of New Jersey, most of New York, and eastern Pennsylvania. The conference was organized by Jim Blando, Chairman of MASS A&WMA, Stephanie Hill of NJDHSS, Joann Held, Chief of the Bureau Air Quality Evaluation of NJDEP, and Rachel Kron of Tetra Tech EM, Inc.

The conference had a diverse attendance. Approximately 150 people had pre-registered, included 2 students, 37

government employees, 54 A&WMA members, and 57 non-members. Of the 111 non-governmental attendees about 40 were from a diverse array of private industrial manufacturing or production facilities and included Merck and Company, Johnson and Johnson, DuPont, Ortho-Clinical Diagnostics, Valero Refining, Connectiv, PSE&G, Pinnacle Foods, Kraft, Coastal Eagle Point Refinery, Minute Maid, Bristol Myers Squibb, PSE&G Fossil, Spectra Gases, AGFA Corporation, Honeywell, Novartis Pharmaceuticals, Compac Corporation, OMG Fidelity, Chevron Products Company, Ortho-McNeil Pharmaceuticals, EPS Capital Corporation, and Hoffman-LaRoche. The 71 non-governmental employees who did not work for private industry consisted of environmental consultants, law firms, and groups representing industry (e.g. NJ Business and Industry Association). The governmental employees were primarily from NJDEP, but also consisted of members of the NJDHSS, New Jersey Office of Legislative Services and the NJ Farm Bureau.

Mr. Tom Micai, Chief of the Bureau of Operating Permits stated that "the A&WMA provides a very good forum for NJ businesses, consultants, and the NJDEP to trade information to help NJ achieve clean air standards. I encourage A&WMA to continue to offer these types of workshops semi-annually."

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The speakers included Dr. Eddy Bresnitz, Assistant Commissioner and State Epidemiologist, Sam Wolfe, Assistant Commissioner for Environmental Regulation, Ms. Lisa Jackson, Assistant Commissioner for Compliance and Enforcement, Mr. Bill O'Sullivan, Director of Air Quality Regulation, Joann Held, Chief of the Bureau of Air Quality Evaluation, Mr. Tom Micai, Chief of the Bureau of Operating Permits, Gary Sondermeyer, Chief of Staff for the Commissioner, Jeanne Herb, Director for the Office of Policy, Planning, and Science, Evan Van Hook, Assistant Commissioner for Site Remediation, John Castner, Director of the Solid and Hazardous Waste Program, and Randy England, Co-Chair to the NJDEP Mercury Workgroup.

Many of the speakers were emphatic regarding the initiative to have multiple health and environmental agencies work in collaboration to address environmental health concerns in the upcoming years. There were many overlaps in the presentations, indicating that collaboration between the different departments and bureau's within the NJDEP as well as other state agency partners, such as the Department of Health and Senior Services, is occurring and that environmental issues are being address on a comprehensive, macro level.

John Castner, the Director of the Solid and Hazardous Waste Program's final point of discussion was about the handling of waste as a result of the disaster at the World Trade Center (WTC) on September 11, 2001 and the new focus on emergency preparedness. In NJ, 200,000 tons of steel from the WTC was recycling, he stated. He continued that "Fresh Kills did an incredible job handling that material". For example, much of the material contained asbestos, and thus far most asbestos management practices had been developed for indoor, confined areas. These materials, however, were outside in the exposed environment, so new Best Management Practices were developed to handle the material safely. The lessons learned from this experience are that debris management guidelines must be developed to ensure public safety and that a new chapter must be added to the state-wide solid waste management plan to incorporate these concerns.

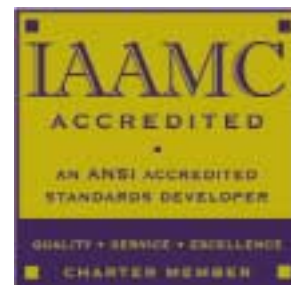
Additional information on all the topics discussed during the day is available at the NJDEP website: <http://www.state.nj.us/dep> and on the MASS A&WMA website <http://www.mass-awma.net>.

ASSOCIATION HEADQUARTERS ACHIEVES PROFESSIONAL ACCREDITATION

Association Headquarters, Inc. (AH), AAAR's management company, is proud to announce its news of achieving the International Association of Association Management Companies (IAAMC) accreditation of the ANSI Standard.

In 2001 AH achieved charter professional accreditation by the American Society of Association Executives (ASAE) Association Management Company (AMC) Accreditation Commission. We are justifiably proud of these two accomplishments and you should be too.

Recognition as a professionally accredited association management company ensures AAAR is provided with expert staff specialists and best practice systems uniquely qualified to propel their organization forward. It also lets you know AH is an association management company that has achieved professional accreditation by completing a rigorous, detailed audit of its internal operating systems.



A MESSAGE FROM THE PRESIDENT

Susanne Hering

AAAR has an exciting year ahead. We will host our first spring specialty conference. Our journal has a new editor, and a fast web-publication schedule. As in years past, we rely on the dedicated volunteers within AAAR.

We move forward on the momentum generated from a most successful Annual Conference chaired by Chong Kim. This year our Tutorial Sessions, chaired by Melissa Lunden, were especially well attended. Chris Sorensen and his Awards Committee were most effective in selecting among many outstanding candidates. Our Publications Committee, chaired by Dave Ensor, oversaw critical decisions affecting our journal. Phil Hopke, who has served many long years as editor of our journal, worked especially hard this year to ensure a smooth transition to the new editorial office. Our board members, including outgoing members, Juan de la Mora, William Nazaroff and Robert Phalen, dedicated many long hours to guiding our activities. Many others have contributed: our working groups, committee chairs, and committee members. We thank all of you for your volunteer efforts, which make AAAR unique!

We are able to build on the most capable efforts of our immediate past-president, Pat Keady and past-treasurer, Tony Wexler. Pat has been exceptional in providing measured responses in difficult situations, and keeping a long-term perspective. Tony has brought into focus financial issues that for many years have been clouded. Together they worked very hard to bring us a wonderfully capable new home office.

Much is new for 2003. This coming January Richard Flagan and his co-editors Kikuo Okuyama and Robert Phalen officially take over the task of editorship of our journal. The transition is nearly complete. Our new editorial office has been handling all manuscripts submitted since our Annual Conference. Under Rick's guidance, the new editorial team is taking advantage of the web for manuscript review. Authors are asked to submit their articles electronically. Just go to the AAAR home page (www.AAAR.org) and click on "to submit a manuscript click here." Your manuscript will be handled by one of the three editors, each of whom has equal editorial authority.

Our journal already has a new presence on the web. Articles are now web-published, with full-page citation, within 5 to 6 weeks of acceptance. Of necessity, this time

line is contingent upon authors providing a quick turnaround of their galleys. If you look at the web publication of AS&T you will see articles into the March 2003 issue. As a member you can access the on-line journal through the "members only" page. You can access not only the current year journals, but also prior year publications since 1998. Although the web system is not yet perfect, our publisher is working hard to solve the glitches. They have also made it a priority to improve the on-line search capabilities.

We continue to work to expand the reach of our journal. We have a wonderful collaboration with our publishers in bringing forth a journal that is readily accessible, and will be an effective instrument for the communication of scientific and technological advances. At a time when library subscriptions have been declining, our journal has held its own. Last June a group of us from AAAR, Rick Flagan, Phil Hopke, Dave Ensor and myself met with our publishers, Corey Gray and Kari Roane of Taylor and Francis. The accelerated web-publication of accepted manuscripts is a direct outcome of the discussions from that meeting. As we look to the future we plan to meet with our publishers on an annual basis to carefully consider plans for the upcoming years. There are trade-offs between expanded publication volume and journal cost to our libraries, and these must be carefully considered. We have drafted a strategic plan for the journal, and through this annual review have the flexibility to meet changing demands, and the mechanism to work systematically to meet our long-term goals.

For the first time ever, AAAR will host a spring specialty conference. Many years ago Robert Phalen organized a highly successful colloquium on "Particles and Health." This year AAAR has the opportunity to host an expanded specialty conference entitled "Particulate Matter: Atmospheric Sciences, Exposure and the Fourth Colloquium on Particles and Human Health." The conference is under the most capable and energetic leadership of Cliff Davidson, Paul Solomon and Robert Phalen. It is a unique opportunity to bring together those who study the toxicity and epidemiology of particle inhalation, with those who assess exposure levels, and characterize ambient particles, their sources and atmospheric transformations. With an emphasis on discussions and interaction among participants, the format is decidedly different from our fall conference. The organizers have negotiated especially favorable hotel and

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LETTER FROM THE EDITOR

Hello everyone! I would like to introduce myself as the new editor of Particulars. My name is Lupita D. Montoya and I am Sheryl Ehrman's successor to this position. Sheryl and I have been working to make this a smooth transition as we embark on a new phase of our newsletter. We have a number of ideas for improving Particulars this year and encourage all AAAR members to participate in this venture by providing your input regarding its coverage and format. For example, we plan to include a Comments section in Particulars to facilitate communication from our members, as well as very small surveys to get feedback regarding various issues.

As we all learned at the meeting in Charlotte, AAAR is facing great challenges this year, and our leadership has done an excellent job steering us in the right direction. My hope is that AAAR members use Particulars as a conduit to assist our leaders in improving our society in all ways possible. One of my personal goals is to utilize Particulars to help bring back programs such as the Special Initiatives. This program provided an excellent venue for members to pursue specific interests that benefit our entire membership.

These are exciting times. The present political and social environment the US and world face will undoubtedly bring new challenges that will test AAAR's scientific relevance. Fortunately, our society continues to grow in membership and scientific

competence and should be ready to use its collective expertise for the betterment and protection of humanity and nature as a whole.

Particulars is YOUR newsletter. Use it as a source of information but also as an opportunity to communicate with your fellow AAAR members. Your contributions can take the form of editorials, letters to the editor, notices on upcoming events, reports on accomplishments by fellow members and any other topic appropriate for inclusion. We also encourage you to advertise products, services or job openings. I look forward to working with you to make Particulars a rich source of aerosol science information and an effective two-way communication tool.

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early registration rates. The dates are **March 31-April 4, in Pittsburgh, Pennsylvania.** Mark your calendars!

Last year AAAR moved to an on-line directory. This year, through the generous support of TSI, with in-kind support from Taylor and Francis, and with advertising contributions from MSP Corp and Rupprecht and Patashnick, AAAR will once again provide its full members a printed directory. This will be distributed with the March edition of *AS&T*. AAAR will continue with the popular, on-line directory.

We would all agree this is an exciting time for aerosol research. Our field is important to a diverse range of subjects, from global climate to drug inhalation therapy, from materials synthesis and nanotechnology to ambient air quality monitoring. I thank all of you for your participation and contributions to our association.

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.

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(As of December 6, 2002)

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Reap the rewards by advertising in the AAAR newsletter! *Particulars* is the primary information source for Association members. Published three times each year, the newsletter is an excellent membership benefit.

Whether you have a product or service to sell or a job to post, *Particulars* is the industry's leading publication.

Full Page	\$400
Half Page (vertical/horizontal)	\$200
Quarter Page	\$100
Eight Page	\$50

Classified advertisements are available for posting job openings and advertising the availability of second-hand equipment.

20-39 words	\$20
40-80 words	\$40

For more information on availability or rates, please contact the AAAR office at aaar@ahint.com.

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The editors of *Particulars* & AAAR staff
wish you and yours Happy Holidays and a
prosperous New Year!



PARTICULARS

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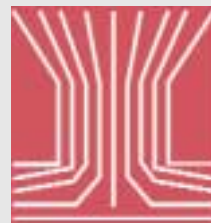
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