



MicroNews

Summer 2009 Newsletter
of the Microbeam Analysis Society

<http://www.microbeamanalysis.org/>

PRESIDENTIAL MESSAGE

Dear Members,

This past year has been a year of change. As we watched the economy decline, the adverse effect on business and finance has impacted us all. The one thing that has not changed and remains consistent is the fundamental mission of this Society – to advance and diffuse knowledge concerning the principles and applications of microbeam instruments or related instrumentation, and to provide continuity, advance planning, and a financing mechanism for annual meetings. Always mindful of this goal, the officers and program organizers continue to work toward providing our members with top programming choices.

This spring, I was very pleased to have been able to attend the MAS Topical Conference on the Microanalysis of Particles. This was a great in-depth program covering the analysis techniques and the problems associated with particle samples. I want to recognize the organizers, Craig Schwandt, Nicholas Ritchie, and Paul Carpenter for an outstanding technical program, and thank them for all their efforts to ensure another very successful MAS program event. If you missed this TC, watch for upcoming advance notices on the 2010 EBSD Topical Conference on our website.

As we prepare for M&M2009 in Richmond, I would like to mention a couple of special events. This year there will be an Opening Plenary Session on Monday morning. There will be two keynote speaker presentations: the Tom Pike Lecture - “The Phoenix

Mission: Microscopy on Mars” and the Joe Michael/ Paul Kotula Lecture - “Microbial Forensics: Microanalysis of the 2001 Anthrax Letter Attacks.” This latter lecture will take place following the morning break at 10:30 am. The MAS Awards Presentation will follow this lecture at 11:30 am. Please note: the Plenary Session replaces our usual Presidential Happenings Session. All MAS award winners will receive their awards at this Plenary Session.

The second event I would like to bring to your attention is the David B. Wittry Memorial Symposium on Advances in Detectors in Microscopy and Microanalysis, Related Techniques and Their Applications. This symposium is dedicated to and honors the lifetime scientific achievements of David B. Wittry. I want to thank the organizers Richard Leapman, Yimei Zhu and Joe Michael for their efforts in organizing this technical tribute to Dr. Wittry.

This year we gained new leadership on Council. First, I want to congratulate Jim McGee on his re-election as Society Treasurer and Ed Vicenzi, our new President-Elect. I am also very pleased to welcome our two new Directors, Jim Bentley and Heather Lowers. In recognition for their efforts and service to the Society, I extend my personal thanks to our outgoing Directors – Luke Brewer and Kristin Bunker, who will conclude their terms of office at the end of this year.

Lastly, I would like to announce our major society awardees. This year the Duncumb Award for

Excellence in Microanalysis is awarded to Dale Newbury. I will present the Presidential Science Award to Joe Michael, the Heinrich Award to Dominique Drouin, and the Service Award to Valerie Woodward. Please join me at the Plenary Session to congratulate and honor these awardees as well as the 2008 Best Paper recipients and our MAS Distinguished Scholars.

M&M 2009 looks to be another week profuse with technical excellence thanks to the program chair Janet Woodward and the dedicated efforts of our MAS Co-Chairs Luke Brewer and Brendan Foran! Remember to attend the MAS Business meeting for the official transfer of the beads-of-office on Wednesday and don't forget to stop by the MAS Booth!

I look forward to seeing you all in Richmond!

Best Regards,
Cathy Johnson

EDITOR'S NOTE

This is my last issue. Heather Lowers will be bringing new energy and creativity to future issues of MicroNews. I want to thank all of you who have helped me write MicroNews, and I ask that you please help Heather in the future by making timely contributions. I leave this job somewhat reluctantly as it has been fun to work with you all to help keep the membership up-to-date on society happenings. And it has been great fun working through the years for MAS as a Director, President, and MAS Tour Speaker. The best part has been the MAS friends I've made along the way who have been a pleasure to work with. Thank you all for your hard work and dedication to MAS.

Ryna Marinenko
MicroNews Editor

MEMBERSHIP SERVICES

The past year has seen "change" in Membership Services. MAS has gone electronic with email becoming the primary mode of communication from Membership Services. Additionally, our online election process made its debut in the fall. Electronic voting was successful and generated the highest voter turnout in the past five years. More than 44% of membership participated in electing council positions. Membership renewals have moved to on-line processing as well. Membership has responded favorably in adapting to web renewals and benefit from the speed and convenience of secure, on-line payments. Those who have not yet renewed, please take the opportunity today using the following link:

<http://www.microbeamanalysis.org/members/application/form.htm>

In April, the MAS Topical Conference on Particles was held in Chicago at McCrone Associates. In all, 70 people attended lectures by leaders in the field of particle microanalysis utilizing a variety of techniques and lab workshops and toured the Argonne Advanced Photon Source. The meeting was very informative and well received by experts and students alike.

The Microscopy and Microanalysis 2009 meeting will be in Richmond, Virginia, July 26-30. We encourage you to attend and hope many of our members will be present at the various MAS sponsored sessions and events. Please be sure to drop by the MAS booth to check and update your membership information and pick up details on the various meeting events. The MAS social will follow our business meeting on Wednesday evening. This is a great time to reacquaint with both old and new friends and colleagues.

See you in Richmond!
Dan Kremser
Membership Chair

MAS TOUR SPEAKER PROGRAM

Webpage Problem

It came to my attention, recently, that some of the links to our tour speaker program were directed to LAST year's speakers. I believe all of these links were those at the bottom of the various MAS webpages. Scott Wight has corrected all of these (thanks, Scott) and now no one can be misdirected. I hope this increases interest in the TS program. I never noticed the problem as I always went through the links in the body of the page.

Tour Speakers

The three new speakers, their affiliations, and titles for this year's MAS Tour Speaker Program are –

Paul Hlava (Access to Gems & Minerals) Speaking on – “Gemstone Synthesis”, (Like Mike I have additional talks if you are interested.)

Mike Jercinovic (UMass-Amherst) Discussing any of three topics – “Hans Bethe and Nanogeochronology”, “In-situ trace element analysis in complex, multiphase materials by EPMA”, or “Improved Analytical Resolution and Sensitivity in EPMA – Some Initial Results from the Ultrachron Development Project”

Klaus Wormuth (SurModics, Inc.) “Biomedical Applications of the Raman Microprobe”

The program was able to supply tour speakers to three societies since M&M2008 and two are scheduled or in progress. Those completed and pending tours are listed below. Remember that our current speakers are on tap until Christmas time (OK, I am extending a bit more than that. Hey, I love to talk—call me anytime!).

Society	Speaker	Date
3RMS	Ritchie	November 18, 2008
AIMS	Hlava	October 11-12, 2007
CDMMS	Hlava	January xx, 2010
MSORV	Hlava	October 14, 2009
SCSM&M	Hlava	November 18, 2008

It looks like I am hogging the limelight but I ascribe the long-sided schedule to the webpage link problem.

Affiliated Society Items

In the near future, I plan to check with all of my contacts to see if/which adjustments are needed. These will be duly sent to Scott Wight. I believe our contact list is in pretty good shape. In some cases it is more up-to-date than our

affiliated societies' own web pages! But, of course, a few societies have had a change of officers and others are about to occur. More and more, the officer changes don't affect our list much because many of our contacts are people who act as MAS liaison people year after year. If your society information needs updating, feel free to contact me at hpf5@qwest.net or 505/265-4178 at your convenience.

M&M2009 – Richmond, Virginia and our Annual AREs Luncheon

Yes, Folks, it is that time of year and I am starting to remind (nag) my AREs contacts (and the MAS Council) about this meeting where we choose 3 new speakers for the 2009-2010 TS year. This meeting will be held in Room E24 of the GRCC (Gracie? – Greater Richmond Convention Center) and on the usual day and time – Wednesday (July 29, 2009) from 12:15 PM to 1:15 PM. Don't forget that this is a wonderful opportunity to meet the MAS council members and discuss things good or bad and maybe suggest that you might be interested in a council position. You can come early and/or stay late. Bring ideas with you to the meeting. Better yet – send me your ideas via phone or email (listed both above and below) so I can come armed to the moustache.

Respectfully submitted,
Paul Hlava
Director of the Affiliated Regional Societies
Hpf5@qwest.net
505/265-4178
May 13, 2009

MAS WEB SITE

Big changes are planned for the MAS web site. Last year Ian Anderson made a substantial upgrade to the quality of the content on the MAS web site. This year the Web Committee is going to build on his content but improve the ease with which new content can be authored. The MAS website has always been hard coded in HTML. We are now moving to a more dynamic system based on a content management system (CMS). This system will allow members to develop new content online using what-you-see-is-what-you-get type tools. The intent is to get more people involved with writing content for the web site and to add new more dynamic Web 2.0-type content (like technique specific forums) to the MAS web site. We hope that the enhanced web site will offer additional value to the MAS membership.

We anticipate coming live with the new site at the end of July - around the time of the M&M2009 meeting.

Nicholas Ritchie
Computer Activities

TREASURER'S REPORT

Financially, 2008 was a successful year for MAS in that we were able to fund all of our planned activities, conduct our business, support all selected Distinguished Scholars (now up to \$750 for M&M meeting attendance and presentation of their papers), and still have a Budget surplus of ~\$30,000, due primarily to receipt of the long-overdue (~18 months after the meeting!) payment of our Co-Sponsor share from the 2007 M&M meeting in Ft. Lauderdale. Going forward, we anticipate that MSA and its Business Office will better communicate the status and processing of our Co-Sponsor share, which we rely on to establish funding levels for many of our annual activities. MAS assets also survived a rather unstable investment year quite well, due to the savvy investment posture established by our Financial Chair, Gordon Cleaver. Our assets in 2008 actually had a small gain; how many of us can say the same for our retirement funds?

We maintained low Society business operating costs this past year, by continuing to extract most bookkeeping, membership, and reporting from the Accountant's Office. We still rely on our long-time accountant, Bill Thompson, to handle investment and tax accounting/reporting and we also engage his office for oversight of our financial record-keeping, as needed. Financial costs of Membership dues and voting have been reduced through use of both online (PayPal) credit card processing and direct Treasurer processing of checks, both functions previously handled at considerable cost by the Accountant's office. PayPal credit card transaction costs (~3.5% of the transaction amount) are also less than paid in the past through our bank's merchant services account.

We continue to emphasize funding of students for our Meetings and Topical Conference participation. This year we are increasing Distinguished Scholar support, with funding available for up to 16 student scholars (increase from 12 previously). Student scholar awards are also available for participation in Topical Conferences and other microanalysis-themed meetings. We acknowledge continued sponsor support for our annual Castaing (sponsored by Cameca), Birks (sponsored by JEOL), and Macres (sponsored by Oxford) outstanding paper awards, and the Duncumb award (sponsored by Bruker) for excellence in microanalysis. We have funded and financially guided several Topical Conferences now, with the able efforts of the TC organizers. We continue to refine our practices so that planning, funding, and financing the TC's and other Society functions are done with efficient and track-able financial processes.

A summary of the 2008 Budget results and 2009 Budget plans are given below. I welcome any inquiries into the MAS finance or Treasurer activities.

Respectfully submitted,

James J. McGee
MAS Treasurer

MAS Budget		
	2008	2009
	Actual	Planned
<u>INCOME</u>		
Member Dues	\$13,338	\$13,425
Sustaining Member Dues	\$6,375	\$7,875
M&M 2007 (Ft Lauderdale) Cosponsor Share	\$24,792	n/a
M&M 2008 (Albuquerque) Cosponsor Share	n/a	\$20,172
M & M Journal Subscriptions	\$2,030	\$2,000
Schwab Dividends & Interest	\$7,354	\$5,000
Contributions to Fiori Fund	\$540	\$500
Contributions to Chodos Fund	\$4,715	\$2,000
Corporate Award Reimbursements	\$3,500	\$3,500
MAS Topical Conference (2008-EBSD)	\$16,885	n/a
MAS Topical Conference (2009 - Particles)	<u>n/a</u>	<u>\$12,750</u>
Total Income	\$79,529	\$67,222
<u>EXPENSE</u>		
Society Management	\$1,998	\$3,500
Membership Office	\$844	\$1,000
Executive Council	\$1,676	\$3,500
Foreign Society Reciprocity	\$750	\$750
Student Support at IUMAS / EMAS (Chodos Fund)	\$2,000	\$1,500
WWW Maintenance	\$240	\$400
M&M Journal Subscriptions	\$1,848	\$2,000
Tour Speaker - Fiori Fund	\$715	\$1,000
General Tour Speaker Program	\$984	\$4,000
Topical Conference (2008 - EBSD)	\$19,385	n/a
Topical Conference (2009 - Particles)	n/a	\$11,500
Topical Conference (2010 - EBSD)	n/a	\$2,500
Topical Conference Student Support	\$2,500	\$2,500
Potter Fund Support	\$459	n/a
MAS Conference Sponsorship (AGU)	\$1,271	\$1,500
MAS Sponsorship of ISO/TC	n/a	\$1,000
MAS Functions @M&M	\$3,463	\$5,000
M&M Student Support (MAS Distinguished Scholars)	\$7,448	\$12,000
Corporate/Paper Sponsored Awards	<u>\$3,500</u>	<u>\$3,500</u>
Total Expense	\$49,081	\$57,150
Surplus / (Deficit)	\$30,448	\$10,072

MICROSCOPY & MICROANALYSIS 2009

Microscopy and Microanalysis (M&M) 2009 will be an exciting and motivating meeting for students and practitioners of microanalysis. This meeting will have the core microanalysis programming we have come to expect from M&M, as well as multiple opportunities to reunite with colleagues in microanalysis from around the United States and the world. In 2009, there will also be some special items that will be particularly attractive to MAS members.

The technical programming for M&M 2009 includes a number of symposia that connect with the core interests of MAS. Examples include:

- Quantitative Compositional Analysis at the Nano Scale - XEDS, EELS, SIMS, HAADF
- Problem Solving Using Microanalysis in the Real World
- Quantitative Atom-Probe Tomography
- Focused Ion Beam (FIB) Science and Technology: Fundamental Interactions, Instrumentation, and Applications
- Metals and Minerals and Microstructure: Applications and Advances of Electron Backscattered Diffraction (EBSD)
- Characterization of Materials for Responsible Energy Generation and Use

In addition, there will be a named symposium honoring the work and life of Dr. David B. Wittry. Dr. Wittry was president of both MAS and MSA and was awarded a Distinguished Scientist Award by both the Microbeam Analysis Society and the Microscopy Society of America. He was one of the true pioneers in the development of both x-ray and electron spectrometers for microanalysis. The Wittry symposium is being organized by R. Leapman, Y. Zhu, and J. Michael and will address advances in detectors for microscopy, microanalysis, and related techniques.

The symposium will begin with a short retrospective on Dr. Wittry's life and accomplishments by R. Leapman.

M&M 2009 will also see the introduction of a plenary session to begin the meeting with two fabulous speakers. Dr. Tom Pike of Imperial College, London, will discuss the highlights of his work on the Phoenix Mars mission. MAS' own Dr. Joseph Michael will talk about his work on the microscopy and microanalysis used in the federal anthrax investigation. In addition, MAS will present its annual awards during this plenary session. We hope to see you there at 8:30 on Monday morning.

Finally, I want to personally invite you to the MAS Business Meeting at 5:15PM on Wednesday. This meeting will be followed, as is tradition, by our MAS Social. These two meetings allow us to discuss and approve important society business and then celebrate our friendship and a great M&M meeting together. Please make sure to stop by the MAS booth during the week to say "hello", check on your dues payment, get your stamp, and get information on the location for the MAS social.

I look forward to seeing you in Richmond, Virginia!

Luke Brewer.
2009 M&M MAS Co-chair

MAS TOPICAL CONFERENCE

Microanalysis of Particles 2009

Microanalysis of Particles 2009 was held at the College of Microscopy, Westmont, IL April 20 – 23, 2009. Sixty-eight persons from across the United States including one from Australia were able to attend the three full days of topical lectures in the mornings followed by eight small group workshops which the attendees could choose from each afternoon. Following the conference banquet participants toured Beamlines 13, 16, and 26 at the Advanced Photon Source after a brief introduction by the Deputy Director, X-ray Science of the APS.

Four students were able to participate with full support due to the generosity of several corporate sponsors, EDAX, Hitachi, JEOL, Oxford-Instruments, Thermofisher Scientific, the Midwest Microscopy and Microanalysis Society, and

The McCrone Group.

The goal of the conference, organized by Craig Schwandt, Nicholas Ritchie, and Paul Carpenter, was to reach out to industrial scientists and those new to microanalysis to share the microanalysis expertise of the MAS. The distinguished speakers and workshop demonstrators presented the concepts of conducting microanalysis of particles; from the basics to the cutting edge. The topical conference went very well. This was the first time a topical conference was held at a commercial venue. However the venue was appropriate since it is a company specializing in the identification and characterization of particles.

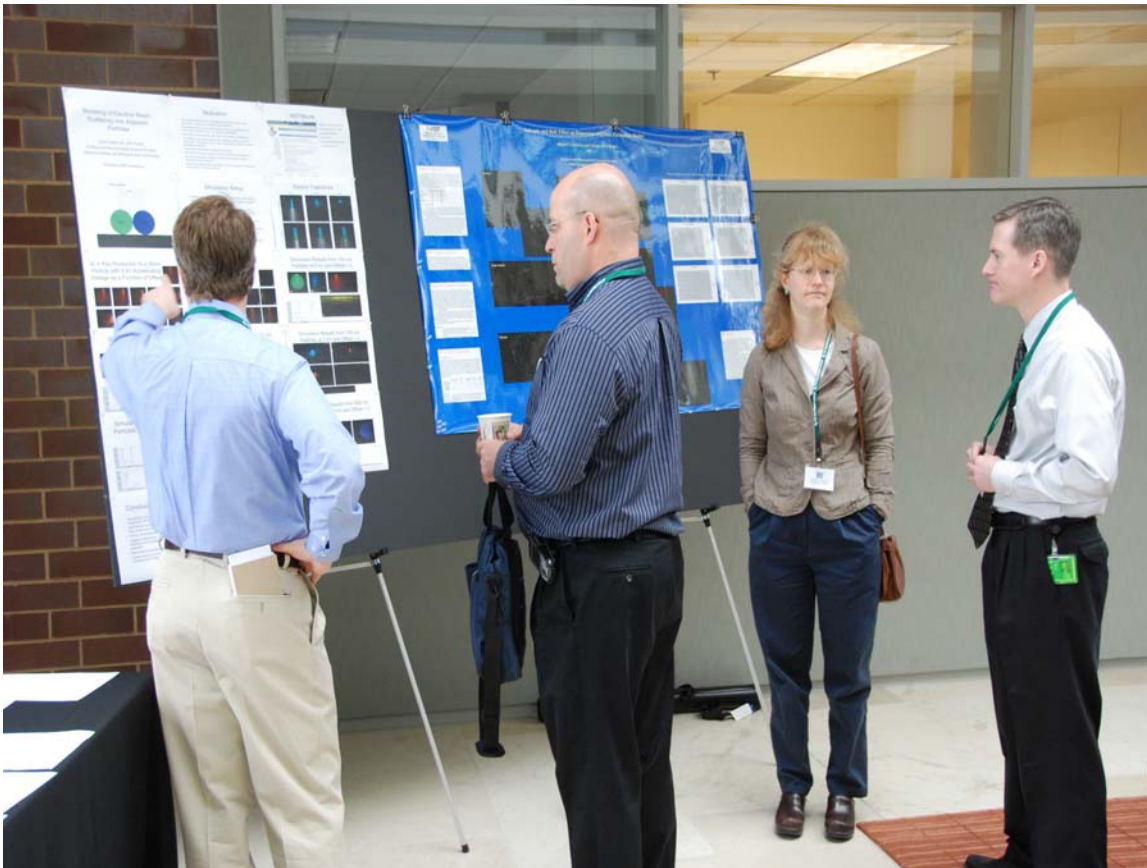
Craig Schwandt
photographs follow:



o f



trans costs (~35% the trans amount) are also less





MEETINGS

Meetings

MICROSCOPY & MICROANALYSIS 2009, July 26-30, 2009, Richmond, VA

Contact: Nicole Guy, nicoleguy@conferencemanagers.com
or web: msa.microscopy.com

American Chemical Society National Meeting, Aug. 16-20, 2009, Washington, DC

Contact: www.chemistry.org

FACSS:2009, Oct. 18-22, 2009, Louisville, KY

Contact: www.facss.org

AVS 56th International Symposium and Exhibition, Nov. 8-13, 2009, San Jose, CA

Contact: www.avs.org

Eastern Analytical Symposium & Exposition, Nov. 16-19, 2009, Garden State Exhibit Center, Somerset, NJ.

Contact: www.eas.org

2009 MRS Fall Meeting, Nov. 30 -Dec. 4, 2009, Boston, MA

Contact: info@mrs.org, www.mrs.org

PITTCON 2010, Feb. 28 - Mar. 5, 2010, Orlando, FL

Contact: info@pittcon.org, or www.pittcon.org

2010 MRS Spring Meeting, Apr.5-9, 2010, San Francisco, CA

Contact: info@mrs.org, www.mrs.org, or www.mrs.org

SPIE Scanning Microscopy 2010, May 17-19, 2010, Monterey, CA

Contact: www.spie.org

Future M & M Meetings

MICROSCOPY & MICROANALYSIS 2010, Aug. 1-5, 2010, Portland, OR

Contact: Nicole Guy, nicoleguy@conferencemanagers.com
or web: msa.microscopy.com

MICROSCOPY & MICROANALYSIS 2011, Aug. 7-11 2011, Nashville, TN

Contact: Nicole Guy, nicoleguy@conferencemanagers.com
or web: msa.microscopy.com

MICROSCOPY & MICROANALYSIS 2012, July 29- Aug. 2, 2012, Phoenix, AZ

Contact: Nicole Guy, nicoleguy@conferencemanagers.com
or web: msa.microscopy.com

Affiliated Societies' Meetings

Visit web sites for the following societies:

AREMS

<http://www.ncsu.edu/aif/arems/arems.htm>

AIMS

<http://www.azmicroscopy.org/>

AMAS

microscopy.org.au/amas/

CDMMS

<http://home.nycap.rr.com/cdmms/>

CoMAS

http://www.msa.colostate.edu/mssem_cmas/

CSMMS

<http://www.emc.missouri.edu/csmms/index.htm>

MMMS

<http://www.midwestmicroscopy.org/>

MSNO

<http://www.msneo.org/>

MMS

<http://www.mnmicroscopy.com/>

NESM

<http://nesm.cims.harvard.edu/>

NCSMMA

<http://www.msa.microscopy.com/MSALAS/NCSMMA/NCSMMAHomePage.html>

OMS

<http://www.ou.edu/research/electron/oms/>

PMS

<http://www.msa.microscopy.com/~psmlas/PSMHomePage.html>

SST

<http://bilbo.chm.uri.edu/SST/>

SEMS

www.southeasternmicroscopy.org/

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Contact: **Beth Gregory/Scott Davilla**
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FAX: (978)532-2503
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Internet: <http://www.leo-usa.com>
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(856)439-9100 FAX: (856)439-9111
Contact: **Marylin Rodman**
email: info@dentonvacuum.com
Internet: <http://www.dentonvacuum.com>
Vacuum Coaters and Critical Point Dryers

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systems**

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