



MicroNews

Summer 2006 Newsletter
of the Microbeam Analysis Society

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

PRESIDENTIAL MESSAGE

Dear MAS Members,

When I sat as president-elect at the MAS winter council meeting held in San Diego on February 5, 2005, at 9:00 am we started our meeting. At about 9:15 am, the MSA council came in and we were told that the merger discussions were suspended. After they left I said, "Well, it seems that I will not be the last MAS president". It is therefore my great pleasure to serve the Microbeam Analysis Society this year in the role of President. The MAS is rich in tradition and consists of member scientists, like you, who are passionate about the field and future of microbeam analysis. First, I would like to thank our outgoing President, Inga Musselman, for her outstanding leadership this past year. As President, Inga played a critical role in the discussions with the MSA Council about the possible merger of the Microbeam Analysis Society and the Microscopy Society of America. She was under pressure after the suspension of the merger discussions, and we have to thank her very much for keeping our society working as usual. Simultaneously, she worked to advance the visibility of MAS and to serve our membership by identifying and arranging for additional MAS sponsored Topical Conferences and in supporting students for the goodness of our lovely society.

As the MAS president, I will continue to work on the lines traced by my predecessors by expanding our topical conferences, as it is planned in the Spring of 2007 and by continuing to recruit new members, especially students since they are the future of our society. In that context, we have to increase the

support, already generous, for students attending our various meetings. I want also to say that I will work to continue to maintain our excellent relationship with MSA since we have had a joint meeting with them every year since 1996. The Microscopy & Microanalysis meeting has been very profitable for MAS and this is why we decided continue to join with MSA every year at the Microscopy & Microanalysis meeting. I know that the suspension of the merger discussions have created a significant disappointment within many MAS members, but we have to move on and to continue to work with MSA for the goodness of electron microscopy and also for the interest of both societies. Merger discussions might happen again in a few years from now and the more members we have at that point, the better will be our position in these discussions.

M&M 2005: Microscopy and Microanalysis 2005, held last August in Honolulu, HI, was a huge success. The Honolulu site was beautiful and fantastic, complete with Diamond Head, beaches, and Polynesian tradition. This meeting was certainly the best since M&M 2002 held in the wonderful Québec City! The Program Chair, Bob Price, and his committee, including Paul Kotula, John Henry Scott, Mike Marko, George VanderVoort, Mary Mah Lee Ng, Kath Smith, Brendan Griffin and Peter Smith put together a fantastic scientific program with 84 symposia and tutorials and over 1200 invited and contributed platform and poster presentations. I extend a special thanks to Tina Carvalho and Marilyn Dunlap who both served as Local Arrangements Co-

Chairs. I want also to thank all the exhibitors who contributed significantly to the success of this meeting.

UPCOMING MEETINGS: The Particle Workshop 2006, a joint NIST/MAS Special Topics Workshop was held in the NIST's Green Auditorium, Gaithersburg, MD, April 24-26, 2006. For more information, please go to www.nist.gov/particle.

I look forward to seeing you at Microscopy and Microanalysis 2006, which will be held at the Navy Pier in Chicago, IL from July 30th until August 3rd. In addition to MAS, MSA and IMS, co-sponsors of this meeting include the Microscopical Society of Canada/Société de Microscopie du Canada. The Program Committee, headed by Paul Kotula and Raynald Gauvin, has assembled a comprehensive scientific program. Please see the meeting website for complete details: <http://mm2006.microscopy.org>.

ELECTIONS: This past fall we held an election for a new President-elect, a Secretary, and two Directors. We welcome Paul Kotula (President-elect), Valerie Woodward (Secretary), John Fournelle (Director), and Masashi Watanabe (Director) to MAS Council. MAS Council thanks Brendan Griffin and Marion Stevens-Kalceff for running for the Director positions. Both candidates had significant support from the MAS membership. My thanks to the outgoing directors who have completed their three-year terms as directors, Lucille Gianuzzi and Jim McGee.

MAS PLANS: The MAS Council and the Long Range Planning Committee are considering new initiatives for MAS including expanding our Topical Conference Program and co-sponsoring technical meetings with other groups/societies. These initiatives will be conveyed to the membership via MicroNews and our website, www.microbeamanalysis.org.

I look forward to working with you in the coming year to preserve and carry forward the great traditions of MAS. Do not hesitate to contact me or other members of MAS Council to share Ideas, Offer suggestions, or voice concerns.

Sincerely,
Raynald Gauvin
MAS President, 2005-2006

EDITOR'S NOTE

My apologies for being so delinquent putting this issue of MicroNews together. My life has been turned upside down during the last two years. It is actually fun to do this job, somewhat different from the usual routine, but doing it has been difficult in face of numerous other demands. I'm hoping to get future issues out on a more regular basis. Included are all of the submissions that I received since the first of the year although some may be outdated. I've done this so that those items that occur on a yearly basis will be reminders for the future.

Some items that are usually included in MicroNews are not in this issue since I have had some difficulty with responses from contributors. I guess they just didn't think I'd finally get another issue out! I'll just have to be more persuasive next time.

Thank you for your patience.

Ryna Marinenko
MicroNews Editor

MEMBERSHIP SERVICES

I hope everyone is excited about the upcoming M&M 2006 meeting in Chicago. As always, MAS has played a major role in developing the program with many talks and sessions dedicated to microbeam techniques. Membership services have also helped with the NIST/MAS Topical workshops and looks forward to future topics relevant to our membership. Our membership numbers have been on a holding pattern over the last several years with between 350-400 members. The Society appreciates the support of our long-term members. Although we gain new members each year it is offset by the loss of members who have decided not to renew for various reasons. Everyone knows someone who should be a member of MAS so if 30% of us would recruit one person, we could add 100 new members! As I promised in the letter in your renewal packet, there are 10 new students members for 2006 from the University of Missouri. If you are at M&M2006, don't forget about the MAS Presidential Happenings and our annual business meeting with our social to follow. Stop by the MAS booth to get stamped for the social and to say "Hi."

Looking forward to seeing you in the "Windy City"!

Lou Ross
Membership Services

MAS TOUR SPEAKER PROGRAM

The MAS Affiliated Regional Societies contact list is on webpage -<http://www.microbeamanalysis.org/masjh/as.php>. If you note any mistakes, please contact me. I expect a few societies have changed officers recently and may want a new MAS contact listed.

A number of new speakers were chosen by representatives of the various affiliated societies at the AREs meeting during M&M2005 in Honolulu, HA this past August. Unfortunately, most of the new speakers were not able to commit the time to speak. So I have only added one speaker to last year's crew who all agreed to stay on a bit longer.

Our new speaker is Rhonda Stroud of the Naval research Laboratory and her talk is titled "Practical limits of the analysis of phase separation in nanoscale materials".

Last year's speakers are:

1. John Mackenzie of North Carolina State University will speak on "Digital Imaging Workflow in Microscopy and Microanalysis".
2. Joe Michael of Sandia National Laboratories asks (and answers?) the question "EBSD to materials: Is diffraction in the SEM actually useful?".
3. Dale Newberry of NIST will regale folks with not one but two talks! One is "Blunders in automatic qualitative energy dispersive x-ray microanalysis: an emerging crisis that threatens our credibility as an analytical community". The other talk is "Silicon Drift Detectors (SDD): x-ray spectrometry and spectrum imaging above 100,000 cps and what to do with all this data".

We are having a moderate tour speaker program this year since this one began after M&M2005. MAS has sent Tour Speakers to 6 societies. (Hlava was asked and agreed to speak to AIMS meeting even though he is not on the official, published slate. MAS will often honor special requests if the speakers agree.)

The societies visited, the speakers, and the dates are:

Society	Speaker	Date
AREMS	Newbury	Oct. 20-21,2005
MMS(MN)	Michael	Sept. 22, 2005
MSNO	Mackenzie	Feb. 21, 2006
AIMS	Hlava	March 23, 2006
CoMAS	Newberry	April 6, 2006
NESM	Mackenzie	May 5, 2006

Remember, MAS pays for the visit by our tour speakers (as long as you go through me) so you get a speaker for your program (once a year) at no cost to your society. But you have to initiate the request or nothing happens.

Respectfully Submitted,
Paul F. Hlava

MEETINGS & COURSES

MICROSCOPY & MICROANALYSIS 2006, July 30 – Aug. 3, 2006, Chicago, IL
Contact: Phillip Ridley at - meeting@microscopy.org or web: msa.microscopy.com

ICEM XVI, Sept. 3-8, 2006, XVI Internat. Cong. on Elect. Microsc., Sapporo, Japan
Contact: email: xvi_icem@nims.go.jp or web: <http://edpex104.bcasj.or.jp/jsm/eng/icem/icemxvi/html>

American Chemical Society National Meeting, Sept. 10-14, 2006, San Francisco, CA
Contact: www.chemistry.org

FACSS:2006, Sept. 24-28, 2006, Lake Buena Vista, FL
Contact: www.facss.org

AVS 53rd International Symposium and Exhibition, Nov. 12-17, 2006, San Francisco, CA.
Contact: www.avs.org

Eastern Analytical Symposium, Nov. 13-16, 2006, Garden State Convention Center, Somerset NJ.
Contact: www.eas.org

2006 MRS Fall Meeting, Nov. 27 – Dec. 1, 2006, Boston, MA
Contact: info@mrs.org www.mrs.org

PITTCON 2007, Mar.25-Apr.1, 2007, Chicago, IL,
Contact: info@pittcon.org, or www.pittcon.org

2007 MRS Spring Meeting: Apr. 9-13, San Francisco, CA
Contact: info@mrs.org www.mrs.org

SCANNING 2007, Apr. 10-12, 2007, Monterey, CA,
Contact: scanning@fams.org www.scanning.org

MICROSCOPY & MICROANALYSIS 2007, Aug. 6-9, 2007, Ft. Lauderdale, FL
Contact: Phillip Ridley at meeting@microscopy.org or web: msa.microscopy.com

MICROSCOPY & MICROANALYSIS 2008, Aug.4-7, 2008, Albuquerque, NM
Contact: Phillip Ridley at meeting@microscopy.org or web: msa.microscopy.com

MICROSCOPY & MICROANALYSIS 2009, Aug. 3-6, 2009, Baltimore, MD
Contact: Phillip Ridley at meeting@microscopy.org or web: msa.microscopy.com

MICROSCOPY & MICROANALYSIS 2010, Aug. 2010, Portland, OR
Contact: Phillip Ridley at meeting@microscopy.org or web: msa.microscopy.com

Courses

Advanced Techniques in Microscopy for Materials Characterization Course, May 8-12, 2006, McGill University, Montreal, CA
Contact: raynald.gauvin@mcgill.ca or www.ebeamworkshop.com

Computer Assisted Image Analysis and Measurement Course and Workshop, May 17-19, 2006, U. Missouri, Columbia, MO
Contact: rosslm@missouri.edu or www.emc.missouri.edu/works.htm

Lehigh Univ Microscopy Schools, June 4-15, 2006 Bethlehem, PA
Contact: Sharon Coe at sharon.coe@lehigh.edu or www.lehigh.edu/microscopy

SEM and X-ray Microanalysis, June 5-9, 2006
Intro. to SEM and EDS, June 4, 2006
Problem Solving with SEM., June 12-16, 2006
Quantitative X-ray Microanalysis, June 12-16, 2006
Analytical Electron Microscopy, June 12-16, 2006
Focused Ion Beam Applications, June 12-16, 2006
Particle and Fiber Characterization, June 12-16, 2006
SPM Fundamentals and Applications, June 5-8, 2006

AFM and Other Scanned Probe Microscopies, Intensive Short Course, June 12-16, 2006, North Carolina State University, Raleigh, NC, USA
Contact: Dale.Batchelor@ncsu.edu or www.ncsu.edu/aif/afmcourse

Simulation of x-ray spectra in EPMA using the Monte Carlo program PENELOPE, Aug. 4-5, 2006, U. Wisconsin, Madison, WI.
Contact: www.geology.wisc.edu/~johnf/penelope or John Fournelle at johnf@geology.wisc.edu, (608) 262-7964, FAX (608) 262-0693, or Dept of Geology & Geophysics, UW-Madison, 1215 W. Dayton St., Madison WI 53706

Affiliated Societies' Meetings

AREMS, visit web site for information
<http://www.uvawise.edu/arems/index.html>

CSMMS,
Contact: Randy Tindall, (573)882-8304 or tindallr@missouri.edu, or Lou Ross (573)882-4777 or rosslm@missouri.edu

MMMS
<http://www.msa.microscopy.com/MSALAS/MMMS/MMMSHomePage.html>

MMS
<http://www.MNmicroscopy.org>

MSNO
<http://www.msneo.org>
Contact: Ed Boyd, (216)447-6198, ed.boyd@noveoninc.com.

NCSEMMA
Contact: Peter Ingram or Ann LeFurgey; email: p.ingram@cellbio.duke.edu or a.lefurgey@cellbio.duke.edu

NESM
Contact: Rick Rogers, Harvard School of Public Health, Boston, MA, rogers@bioimage.harvard.edu Tony Garratt-Reed, MIT, Cambridge, MA, tonygr@mit.edu

SEMS
Contact: John Shields, email: jshields@cb.uga.edu or web: <http://www.biotech.ufl.edu/sems>

MAS PROPOSED BUDGET

MICROBEAM ANALYSIS SOCIETY, INC.

PROPOSED BUDGET FOR 2006

INCOME & EXPENSE

Income:

Member Dues (Budget: 315 Reg., 20 Stu., 17 Emer.+ airmail)	\$ 8255
Sustaining Member Dues (Budget: 22)	8250
National Meeting (M&M '05)	12000
M&M Journal (Budget: 80 <u>N.A. @\$15</u> , 15 <u>For. @\$38</u>)	1770
Schwab Dividends & Interest	7000
Checking Acct. Interest	20
Wiley Royalty to Fiori Fund	1350
Corporate Paper Award Reimbursements	1500
Total Income	<u>\$ 40205</u>

Expense:

(10) Society Management (Accounting, Ins., Fees, Misc.)	\$ 8000
(11) Membership Office	400
(15) Executive Council (Travel, Meetings, Accommodations)	8415
(17) Foreign Society (AMAS, EMAS reciprocity)	1000
(20) MicroNews	0
(22) WWW Maintenance	240
(30) M&M Journal Subscr. (80 <u>N.A. @\$15</u> , 15 <u>For. @\$30</u>)	1650
(40) Tour Speaker – Fiori Fund	900
(42) Potter Fund Student Support (M&M '06)	600
(45) General Tour Speaker Program	1500
(50) Topical Conference (NIST)	4000
(55) Topical Conference @ M&M '06 (?)	0
(60) MAS Functions @ M&M '06	7400
(70) MAS Directory	0
(80) Student Support @ M&M '06	4600
(85) Paper Awards (Corp. sponsored)	1500
Total Expense	<u>\$ 40205</u>

Submitted by Harvey A. Freeman, Treasurer
hfreeman@capecod.net
February 4, 2006

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L. S. Birks (Deceased)
I. B. Borovskii (Deceased)
Raimond Castaing(Deceased)
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John Colby
V. E. Cosslett (Deceased)
Peter Duncumb
Charles E. Fiori (Deceased)
Raymond Fitzgerald
Joseph I. Goldstein
Theodore Hall

K. F. J. Heinrich
James Hillier
Klaus Keil
L. L. Marton (Deceased)
Robert E. Ogilvie
Jean Philibert
Stephen J. B. Reed
Ryuichi Shimizu
Gunji Shinoda (Deceased)
Georges Slodzian
Oliver C. Wells

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John Henry Scott, (see directors)

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John Henry Scott and Ed Vicenzi(see directors)

Computer Activities

John Henry Scott, (see directors) and
Scott Wight

NIST; Mail Stop 8371
Gaithersburg, MD 20899-8371
(301)975-3949; scott.wight@nist.gov

Conference Proceedings Inventory

C. Susskind; San Francisco Press, Inc.; Box 6800
San Francisco, CA 94101-6800
(510)524-1000

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Ed Vicenzi, 2007 Ft. Lauderdale, see Directors

Paul Carpenter, 2008 Albuquerque

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**MAS-MSA Liaison, Nominations and
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Valerie Woodward (see Secretary)

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Arizona Imaging and Microanalysis Society (AIMS)

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Capital District Microscopy and Microanalysis Society (CDMMS)

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

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Central States Microscopy and Microanalysis Society (CSM&MS)

<http://treefrog.cvm.uiuc.edu/csmms/>

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Colorado Microbeam Analysis Society (CoMAS)

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

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Instrumental Analysis Society (IAS)

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Metro (Metro)

Albert Sicignano (Chairman)
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Metropolitan Microscopy Society (M2S)

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Michigan Microscopy & Microanalysis (MMM or M3)

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Microbeam Analysis Society of Australia (AusMAS)

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Electron Microscope Unit
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Microscopy Society of Northeastern Ohio (MSNO)

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

Bill Butler (President)
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email: wbutler@ncweb.com

Microscopy Society of the Ohio River Valley (MSORV)

Luann Piazza (Contact)
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Midwest Microscopy and Microanalysis Society (M3S)

<http://www.msa.microscopy.com/MSALAS/MMMS/MMMSHomePage.html>
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FAX: 920-803-8946
email: mierzwa@jeol.com

Minnesota Microscopy Society (MMS)

<http://charfacnu.cie.umn.edu/MnMicSoc.html>
Mike Coscio (MAS Representative)
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Phone: 612.514.1331
FAX: 612.514.1284
email: mike.coscio@medtronic.com

New England Society for Microscopy (NESM)

<http://prism.mit.edu>
Anthony J. Garratt-Reed (President)
MIT Room # 13-1027
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email: tonygr@mit.edu

New Mexico Microbeam Users Group (NMMBUG)

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North Carolina Society for Microscopy and Microbeam Analysis (NCSMMA)

<http://www.msa.microscopy.com/MSALAS/NCSMMA/NCSMMAHomePage.html>
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Oklahoma Microscopy Society (OMS)

<http://www.ou.edu/research/electron/oms/>
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Philadelphia Society for Microscopy (PSM)

<http://www.msa.microscopy.com/~psmlas/PSMHomePage.html>
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Sensors and Surface Technology Partnership

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