MicroNews

Winter 2005 Newsletter
of the Microbeam Analysis Society

http://www.microbeamanalysis.org/

PRESIDENTIAL MESSAGE

Dear MAS Members,

It is my 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, Paul Carpenter, for his excellent leadership this past year. As President, Paul played a critical role in leading initial discussions within MAS Council as well as with MSA Council and the joint MAS/MSA Merger Committee regarding the possible merger of the Microbeam Analysis Society and the Microscopy Society of America. Simultaneously, he worked to advance the visibility of MAS and to serve our membership by identifying and arranging for additional MAS sponsored Topical Conferences.

M&M2004. Microscopy and Microanalysis 2004, held last August in Savannah, GA, was a great success. The Savannah site was beautiful, complete with river, historic homes, and Spanish moss. The Program Chair, Ian Anderson, and his committee, including Bob Price, Ernie Hall, Elliot Clark, Paul Kotula, and John Henry Scott, put together a fantastic scientific program with 17 tutorials and over 750 invited and contributed platform and poster presentations. The bus and ferry transportation worked better than we had anticipated. I extend a special thanks to Sara Miller, who served both as Local Arrangements Chair and MSA President, for the exceptional southern hospitality.

UPCOMING MEETINGS. The 15th Annual Goldschmidt Conference will be held in Moscow, Idaho, May 20-25, 2005. In addition to supporting the travel of students to this MAS Topical Conference, MAS is sponsoring several of the symposia including those entitled "Advances in *in-situ* microanalysis of trace elements", "Isotopic ratio measurement using microbeam methods: where do we stand and where are we going?", "Nearly nano-compositional imaging at the sub-micrometer scale using ion beam mass spectrometry to study earth and planetary issues", "Recent advances in electron microbeam induced X-ray microanalysis: instrumentation, hyperspectral data handling, and applications to geochemistry", and "Recent developments in microbeam cathodoluminescence with applications to mineralogy".

I look forward to seeing you at Microscopy and Microanalysis 2005, which will be held at the Hawaii Convention Center in Honolulu, HI from July 31st until August 4th. The Hawaii location will draw scientists from Pacific Rim nations. In addition to MAS, MSA and IMS, co-sponsors of this meeting include The Australian Microscopy and Microanalysis Society, the Australia Microbeam Analysis Society, Microscopy New Zealand, and the Committee of Asia-Pacific Societies for Microscopy. The Program Committee, headed by Bob Price, Paul Kotula, and John Henry Scott, has assembled a comprehensive scientific program. Please see the meeting website for complete details: http://mm2005.microscopy.org.

ELECTIONS. This past fall we held an election for a new President-elect, a Treasurer, and two Directors. We welcome Raynald Gauvin (President-elect), Harvey Freeman (Treasurer), Dan Kremser (Director), and Lou Germinario (Director) to MAS Council. MAS Council thanks Masashi Watanabe and Jerry Delaney for running for the Director positions. Both candidates had significant support from the MAS membership.

SUSPENSION OF MAS/MSA MERGER DISCUSSIONS. In recent years, the Microbeam Analysis Society (MAS) and the Microscopy Society of America (MSA) have considered merging. Last spring, a joint MAS/MSA Merger Committee was established to address the feasibility of creating a merged society. Through a series of productive conference calls, the committee identified several possible governing structures as well as possible names for a merged society. A survey of the MAS and MSA memberships regarding these possible governing structures and society names was conducted in August at the M&M 2004 meeting in Savannah and again in late October via the web. In February 2005, the MSA Council voted *"to suspend further discussion about a merger for the time being."*

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,

Inga Musselman
MAS President 2004-2005

EDITOR'S NOTE

I Know, I Know, I Know!!! I'm Late, I'm Late, I'm Late!!!

My sincere apologies for being so late to publish this issue of MicroNews. It is now so late that I'm now calling it the Winter 2005 issue instead of the Fall 2004 issue as you may have noticed on the front page. I expect that the next issue will be in early summer with the Spring-Summer 2005 title, and I invite readers to send me contributions that may be of interest to the MAS membership. Since MicroNews is now web-based, the size restrictions we had for the printed version no longer apply. I do request, though, that the documents you send for publication are in WORD, preferably in Times New Roman size 10 font, with NO paragraph formatting changes within the document. And PLEASE, PLEASE do not send in double-columns. I can easily do that with my publishing program.

Thanks for your patience.

Respectfully,
Ryna Marinenko, MicroNews Editor

MEMBERSHIP SERVICES

As we end 2004, I hope we can all look back and reflect upon our good fortunes. As a society, 2004 was a good year. The MAS and the field of microanalysis continue to play a major role in the world of microscopic examination. Our presence can be seen in the number of papers in the Microscopy and Microanalysis Journal and the number of sessions at the M&M meetings.

Unfortunately, membership numbers have been on the decline over the last several years, a trend that holds true for most professional societies. Although stabilized above 400, we keep hoping for an upswing. Despite this, our voice is strong, and we need it to be as loud as ever. Your MAS officers have your best interests in mind and want your opinions. So email any of the officers or me and I will pass it on. And please participate in any upcoming polls

Looking ahead, 2005 holds excitement with the continued emergence of better instrumentation and new techniques, the M&M 2005 in Hawaii this August, and the EMAS/IUMAS meeting in Florence, Italy this May. I hope that 2005 is a good year for you and for MAS.

Best Regards,
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.

As usual, three new speakers were chosen by representatives of the various affiliated societies at the AReS meeting during M&M2004 in Savannah, GA this August. The new speakers, their affiliations, and the titles of their talks are as follows.

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 Newbury 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 quiet tour speaker year since M&M2004 except for Dennis Ward, who has been the favored speaker of the Fall. At this time, MAS has sent Tour Speakers to 3 societies. Another tour is scheduled and may be completed before this issue of MicroNews comes out.

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

Society	Speaker	Date
Metro	Vicenzi	Nov. 10, 2004
M^3S – MdWst	Ward	Nov. 19, 2004
MSNO	Ward	Oct. 26, 2004
CDMMS	Ward	Dec. 15, 2004

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

MICROSCOPY & MICROANALYSIS 2005

Aloha,

Microscopy and Microanalysis 2005 promises to be a dynamic meeting that will prove that good science transcends national boundaries. In addition to the usual sponsoring societies, The Microscopy Society of America (MSA) and the Microbeam Analysis Society (MAS), the International Metallographic Society (IMS) will again be a co-sponsoring societies of the meeting. We are also fortunate that with the prime location of the meeting in Hawaii, many of the Pacific Rim Microscopy Societies will be joining us. These include the Committee of Asia Pacific Societies for Microscopy (CAPSM), the Australian Microscopy Society (AMS), the Australian Microbeam Analysis Society (AMAS) and Microscopy New Zealand (MNZ). This truly international representation will provide attendees the opportunity to observe how microscopy and microanalysis are advancing multiple fields of science in much of the world. The M&M 2005 Executive Program Committee, comprised of co-chairs from each of the participating societies, has put together a comprehensive scientific program that will address a variety of cutting-edge topics in the applications of microscopy in the biological and physical sciences and in the development of new instrumentation and techniques.

The program will begin on Saturday, July 30, with a pre-meeting congress entitled "Biophotonics and Live Cell Imaging". The pre-meeting congress will continue on Sunday along with a number of topical short courses addressing digital imaging, image analysis and specimen preparation. Examples of biological topics that will be addressed during the week of the meeting include Tracking and Tagging of Stem Cells, Use of Green and Other Fluorescent Proteins, Cell Communication and Pathology, and the use of microscopy in the study of Viruses, Infectious Diseases and Their Associated Pathologies. Topical symposia in the physical sciences will examine the role of microscopy and microanalysis in the study of Extraterrestrial Materials, Catalysts, and Metallographic Techniques, Applications and Failure Analysis. In joint sessions for biological and materials scientists several symposia will address the development and imaging of a variety of Nanoparticles, Biopolymers and Biomembranes. Instrumentation and Techniques Development sessions will also address a number of state-of-the-art instruments and techniques including Aberration Corrected Electron Microscopy, ESEM, FIB, Advanced Detectors, Spectral Imaging Techniques, FRET, and Tomography. Of special interest will be the Presidential Symposium, "The Golden Anniversary of Imaging Atoms" that will review the past 50 years of imaging at the atomic level and provide keynote addresses concerning the present and future technology

for high resolution imaging of the atom. Supplementing the topical sessions will be a number of Tutorials and Ask-the-Experts sessions that will provide the opportunity to learn the basics behind many popular techniques and, as always, the commercial exhibits will provide the unique opportunity for hands-on learning with the largest variety of state-of-the-art instrumentation found at any microscopy meeting worldwide.

The poster sessions will again provide the best venue for discussions and exchange of scientific information, and to facilitate communication, we have made arrangements to have appropriate kegs of beverages available on the exhibit floor during the 3:30-5PM afternoon poster sessions. To promote this interaction, posters should be put up Monday morning and not removed until after the Wednesday afternoon Poster Session ends. We encourage you to consider submitting posters, and especially look forward to student participation through this mechanism. Please review the specific guidelines for the poster honors and prizes, such as the MSA Traveling Poster Exhibit and the Diatome Award that includes a first prize of an all expense paid trip for two to Switzerland and second and third prizes of Swiss watches.

It is the sincere hope of the Executive Program Committee that the Scientific Program that has been developed will be of interest to all that comprise the scientific community of the Pacific Rim Countries. We hope to meet and interact with as many of you as possible in Hawaii.

Bob Price, Program Chair
Paul Kotula, Program Vice Chair
John Henry Scott, MAS Program Co-Chair
George Vander Voort and Elena Manilova. IMS Program Co-Chairs
Mary Ng Mah Lee, CAPSM Program Co-Chair
Kath Smith, AMMS Program Co-Chair
Brendan Griffin, AMAS Program Co-Chair

— John Henry Scott

Update: The Program Production Meeting (PPM) for M&M 2005 was held March 11-13, 2005, and our August meeting in Honolulu promises to reach new heights of technical excellence. A record-breaking 1100 abstracts were accepted for presentation at the meeting (up sharply from the last few years), and an impressive list of over 40 countries will be represented at the meeting. As expected, the Pacific island venue has attracted many new faces from Europe, Asia, the Pacific Rim and around the world. I'm looking forward to an exciting exchange of new ideas and new science in August.

John Henry

MAS and the 15th Goldschmidt Conference

MAS will be a Sponsoring Society for the 15th annual Goldschmidt Conference in Moscow Idaho, **20 - 24 May 2005**. The Goldschmidt Conference is the premier annual meeting in geochemistry and mineralogy. This meeting in Idaho will cover the full range of geochemistry from cosmochemistry to the origin of life. It will be special because 2005 is the 50th Anniversary of the Geochemical Society. The conference also takes place during the bicentennial of the Lewis and Clark expedition - the Corps of Discovery. The 2005 conference will feature several microanalysis related sessions. Ed Vicenzi, MAS Director, is a co-organizer of the microanalysis portion of the program and Greg Meeker is the MAS representative to Goldschmidt 2005. Additional information will be passed on as it becomes available. The web site for Goldschmidt 2005 is http://www.the-conference.com/2005/gold2005/index.php.

MEETINGS & COURSES

Meetings

Materials Research Society Spring Meeting, Mar. 28 – Apr. 4, 2005, San Francisco, CA
Contact: www.mrs.org

SCANNING 2005, Apr. 5-7, 2005, Monterey, CA,
Contact: scanning@fams.org www.scanning.org

15th Annual Goldsmidt Conference, May 20 – 24, 2005, Moscow Idaho
Contact: http://www.the-conference.com/2005/gold2005/index.php

IUMAS 2005, Third Meeting of the International Union of Microbeam Analysis Societies, May 22-26, 2005, Florence, Italy
Contact:luc.vantdack@ua.ac.be, or
http://www.emas.ac.uk/emas2005

7MCM , 7th Multinational Congress on Microscopy, June 26-30, 2005, Portoroz, Slovenia. Contact:: http://mcm2005.ijs.si

MICROSCOPY & MICROANALYSIS 2005, Aug. 1-5, 2005, Honolulu, Hawaii
Contact: Mary Beth Rebedeau, Chicago: Fax (708)361-6166, email: MSA@tradeshownet.com, or web: msa.microscopy.com

Amercan Chemical Society Fall Meeting, Aug. 28-Sept.1, 2005, Washington, DC
Contact: www.chemistry.org

SIMS XV: 15th International Conference on Secondary Ion Mass Spectrometry, Sept. 12-16, 2005, Manchester, UK
Contact: David Sykes d.e.sykes@lsaltd.co.uk www.meeting.co.uk/confercare/simsxv/

FEMMS 2005: Frontiers in Electron Microscopy in Materials Science, Sept. 25-30, 2005, Kasteel Vaalsbroek The Netherlands
Contact: femms2005@fz-juelich.de www.er-c.org/femms2005

AVS 52nd International Symposium and Exhibition, Oct. – Nov. 4, 2005, Boston, MA.
Contact: www.avs.org

8th Inter-American Congress of Electron Microscopy, Sept. 25-30, 2005, Havana, Cuba
Contact: CIASEM: http://ciasem2005.cigb.edu.cu

FACSS:2005, Oct. 9-13, 2005, Quebec, CA
Contact: www.facss.org

Eastern Analytical Symposium, Nov. 14-17, 2005, Garden State Convention Center, Somerset NJ.
Contact: www.eas.org

Materials Research Society Fall Meeting, Boston, Nov. 28-Dec. 2, 2005, Boston, MA
Contact: info@mrs.org www.mrs.org

MICROSCOPY & MICROANALYSIS 2006, Aug. 6-10, 2006, Chicago, IL
Contact: Mary Beth Rebedeau, Chicago: Fax (708)361-6166, email: MSA@tradeshownet.com, 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

MICROSCOPY & MICROANALYSIS 2007, Aug. 5-9, 2007, Ft. Lauderdale, FL
Contact: Mary Beth Rebedeau, Chicago: Fax (708)361-6166, email: MSA@tradeshownet.com, or web: msa.microscopy.com

MICROSCOPY & MICROANALYSIS 2008, Aug. 3-7, 2008, Albuquerque, NM
Contact: Mary Beth Rebedeau, Chicago: Fax (708)361-6166, email: MSA@tradeshownet.com, or web: msa.microscopy.com

Courses

TEM Specimen Preparation Training School, Apr. 18-20, 2005, Gatan Inc.,Pleasanton, CA
Contact: www.gatan.com/training/index.html

EM Specimen Preparation Training School, Apr. 21-22, 2005, Gatan Inc.,Pleasanton, CA
Contact: www.gatan.com/training/index.html

Advanced Techniques in SEM and Microanalysis for Materials Characterization Course, May 9-13, 2005, McGill University, Montreal, CA
Contact: raynald.gauvin@mcgill.ca WWW.McGill.ca/MinMet/ebeamworkshop

Lehigh Univ. Microscopy Schools, June 5-17, 2003, Bethlehem, PA
Contact: Sharon Coe: slc6@lehigh.edu or www.lehigh.edu/microscopy
SEM and X-ray Microanalysis, June 6-10, 2005
Intro. to SEM and EDS, June 5, 2005
Problem Solving with Electron Microscopy and X-ray Microanalysis., June 16-20, 2005
Quantitative X-ray Microanalysis of Bulk Specimens and Particles, June 13-17, 2005

AFM and Other Scanned Probe Microscopies, Intensive Short Course, June 13-17, 2005, North Carolina State University, Raleigh, NC, USA
Contact: Dale.Batchelor@ncsu.edu www.ncsu.edu/aif/afmcourse

Practical Digital Imaging Course, June 13-17, 2005, North Carolina State University, Raleigh, NC, USA
Contact: Valerie_Knowlton@ncsu.edu , or www.ncsu.edu/cem

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
3rd Annual MinnTS (Minnesota Technical Societies) Meeting, March 17th, 2005, Medtronic, Inc.
A consortium of eight local technical societies
Topic: Biomaterials, two speakers, not confirmed, social and dinner

Spring Symposium, May 6th, 2005, "Cutting Edge Technologies in Microscopy"

Current speakers:

Tom Isabell, JEOL, topic related to aberration corrected electron microscopes

Paul Voyles, University of Wisconsin - topic related to STEM of single atoms.

Duane Kreuger - University of St. Thomas, Optical Microscopy of Polymers, surface profile characterization, confocal laser scanning microscopy, ESEM, and digital image analysis.

visit web site for more information: http://www.msa.microscopy.com/MSALAS/MMMS/MMMSHomePage.html

MMS, visit web site for information
http://www.MNmicroscopy.org

MSNO, visit web site for information
http://www.msneo.org
Spring Meeting, April 5, 2005
Contact: Judy Fulton, (330)344-6394, jfulton@agmc.org

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 LISTSERVER

The Microbeam Analysis Society listserver is operational with low volume and guaranteed spam free. The MAS listserver is a moderated list, which means that every message is approved by a human checker before being passed on to subscribers. This is one way of controlling unsuitable, or unwanted, messages, however it does cause a delay between the time of posting a message and the time it is sent to the readership.

The purpose of the MAS listserver is to provide a forum for the dissemination of Society business and a discussion forum for issues related to microanalysis. This includes but is not limited to electron probe microanalysis, standards, correction procedures, etc. The listserver will not accept attachments, advertisements, resumes, spam, chain letters, political statements, flame wars, anonymous submissions, and others at the discretion of the moderator/checker. The checker monitoring the inputs is a MAS member in good standing that has volunteered to take on this responsibility. There is not any digest options nor is there any searchable archive.

To participate you first must SUBSCRIBE:

(1) Send a text only (not html) email to <majordomo@microprobe.org> in the body of the message: subscribe maslistserver

(2) There will be a delay while your subscription is approved.

(3) Once you are subscribed to SEND A MESSAGE to all subscribers:

Send email to <maslistserver@microprobe.org> the label <maslistserver> will automatically be appended to the subject line of every message to make filtering messages easier. You will only be allowed to send a message from the email address you subscribed as. There will be a delay before your message goes out to subscribers while it is approved.

If you have any questions or problems with the process please let us know at webmaster@microprobe.org.

Scott Wight

MICROBEAM ANALYSIS SOCIETY, INC.

BUDGET FOR 2005 INCOME & EXPENSE

Income:

Member Dues (Budget: 343 Reg., 20 Stu., 11 Emer.)	$ 8730
Sustaining Member Dues (Budget: 21)	7875
National Meeting (M&M '04)	15442
M&M Journal (Budget: 114 N.A.@$15, 17 For.@$38)	2356
Schwab Dividends & Interest	6570
Checking Acct. Interest	20
Wiley Royalty to Fiori Fund	115
Contributions to Fiori and Potter Funds	2400
Corporate Paper Award Reimbursements	1500
Total Income	$45008

Expense:

(10) Society Management (Accounting, Ins., Fees, Misc.)	$ 9448
(11) Membership Office	1500
(15) Executive Council (Travel, Meetings, Accommodations)	12000
(17) Foreign Society (MAS, EMAS) reciprocity	1000
(20) MicroNews	0
(22) WWW Maintenance	740
(30) M&M Journal Subscr. (114 N.A.@$15, 17 For.@$30)	2220
(40) Tour Speaker Fiori Fund	900
(42) Potter Fund Student Support (M&M '05)	600
(45) General Tour Speaker Program	2000
(50) Topical Conference (NIST)	0
(52) MAS Conference Sponsorship ('05- Goldschmidt)	3500
(55) Topical Conference @ M&M '05 (?)	0
(60) MAS Functions @ M&M '05	5000
(70) MAS Directory	0
(80) Student Support @ M&M '05	4600
(85) Paper Awards (Corp. sponsored)	1500
Total Expense	$ 45008

Approved by MAS Council, February 6, 2005

Submitted by Harvey A. Freeman, Treasurer
hfreeman@capecod.net
February 7, 2005

EXECUTIVE COUNCIL

President
Inga Holl Musselman
U. of Texas at Dallas
P. O. Box 830688, Richardson, TX 75083-0688
(972)883-2706, FAX: (972)883-2925
imusselm@utdallas.edu

President-Elect
Raynald Gauvin
Department of Materials Science and Engineering
3610 University Street, McGill University
Montreal, Quebec H3A 2B2, CANADA
Raynald.Gauvin@McGill.Ca

Past President
Paul Carpenter
SD46 / USRA / NASA; Room 306 / 318D Bldg. 4481
Marshall Space Flight Center, AL 35812
(256)544-5149, FAX: (256)544-8762
Paul.Carpenter@msfc.nasa.gov

Treasurer
Harvey A. Freeman
958 Long Pond Road
Brewster, MA 02631-1898
(508)896-9060
hfreeman@capecod.net

Secretary
Valerie Woodward
Noveon, Inc.
9911 Brecksville Rd.
Cleveland, OH 44141-3247
(216) 447-5408, FAX: (216) 447-5575
valerie.woodward@noveoninc.com

DIRECTORS

Lucille Giannuzzi (2003-2005)
FEI Company
7451 N.W. Evergreen Parkway
Hillsboro, OR 97124
(503)640-7500 FAX: (503)844-2615
lgiannuzzi@feico.com

James McGee (2003-2005)
Lockheed Martin, Inc.; Knolls Atomic Power Laboratory
BIN 149; PO Box 1072
Schenectedy, NY 12301-1072
(518)395-4612, FAX: (518)395-4422
jmcgee@nycap.rr.com

John Henry Scott (2004-2006)
National Institute of Standards and Technology
100 Bureau Dr.; MS 8371
Gaithersburg, MD 20899
(301)975-4981, FAX: (301)417-1321
johnhenry.scott@nist.gov

Edward P. Vicenzi (2004-2006)
Department of Mineral Sciences; Smithsonian Institution
P.O. Box 37012; NHB-119
Washington, D.C. 20013-7012
(202) 633-1824, FAX: (202) 357-2476
vicenzi@volcano.si.edu

Louis T. Germinario (2005-2007)
Physical Chemistry Research Laboratory
Eastman Chemical Company; Lincoln Street, B-150B
Kingsport, TN 37662-5150
Phone: 423-229-4047, Fax: 423-229-4558
germ@eastman.com

Daniel T. Kremser (2005-2007)
Battelle Memorial Institute
505 King Avenue
Columbus, OH 43201-2693
Phone: 614-424-6509, Fax: 614-424-7479
kremserd@battelle.org

HONORARY MEMBERS

L. S. Birks (Deceased)
I. B. Borovskii (Deceased)
Raimond Castaing(Deceased)
Arthur A. Chodos
V. E. Cosslett (Deceased)
Peter Duncumb
Charles E. Fiori (Deceased)
Raymond Fitzgerald
Theodore Hall
K. F. J. Heinrich
James Hillier
Joseph I. Goldstein
L. L. Marton (Deceased)
Robert E. Ogilvie
Jean Philibert
Stephen J. B. Reed
Ryuichi Shimizu
Gunji Shinoda (Deceased)
Georges Slodzian
Oliver C. Wells

ADDITIONAL REPRESENTATIVES

Accountant, Dues and Mailing List
William S. Thompson
c/o Microbeam Analysis Society
P.O. Box 502; Fairport, NY 14450-0502
(716)586-4985; thompsow@eznet.net

Affiliated Regional Societies
Paul Hlava
Sandia National Laboratories
Dept. 1822, MS-1405; Albequerque, NM 87185-1405
(505)844-1890 FAX: (505)844-2974
pfhlava@sandia.gov

Archivist & Historian
Gordon Cleaver
Schafer Vallecitos Laboratory (SVL)
6705 Vallecitos Rd.; Sunol, CA 94586
(925)862-4320, FAX: (925)862-4516
gcleaver@schafercorp.com

Awards Committee for MAS 2004
Lucille Giannuzzi and James McGee(see directors)

Computer Activities Committee
John F. Mansfield
(734)936-3352 FAX: (734)763-2282
jfmjfm@umich.edu
Paul Carpenter (see directors)
(256)544-6216; FAX (256)544-8762
Paul.Carpenter@iss.msfc.nasa.gov

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

Corporate Liaison Committee
Vernon E. Robertson
JEOL USA, Inc.; 11 Dearborn Road
Peabody, MA 01960
Phone: 978-535-5900 x2284
Email: vern@jeol.com

Finance Committee
Gordon Cleaver (above)
Joe Michael
Sandia National Laboratories
Albuquerque, NM 87185-0886
jrmicha@sandia.gov
Stacie Kirsch (2001-2003)
Electron Microscopy Sci/Diatome US
321 Morris Road, PO Box 251
Fort Washington, PA 19034
(800) 523-5874, FAX: (215) 646-8931
sgkcck@aol.com

International Liaison
Joe Michael (see above)

Long Range Planning Committee
John A. Small
NIST; Mail Stop 8371
Gaithersburg, MD 20899-8371
(301)975-3900 FAX: (301)417-1321
john.small@nist.gov

M&M program Co-Chair
John Henry Scott, 2004 (see directors)

MAS-MSA Liaison, Nominations and President's Awards
Inga Musselman (see President)

Membership Services
Lou Ross
PMB141, 2101 W. Broadway
Columbia, MO 65203-1261
1(800)4MASMEM, FAX: (573)884-5414
masmembership@excite.com

MicroNews Editor
Ryna B. Marinenko
NIST; Mail Stop 8371
Gaithersburg, MD 20899-8371
(301)975-3901 FAX (301)417-1321
ryna.marinenko@nist.gov

Sustaining Membership Committee
Cathy Johnson
6422 Simms St. #66
Arvada, CO 80004
(303) 420-6373
cjohnmicro@aol.com

Topical Conferences Liaison
Valerie Woodward
Noveon, Inc., Meas. Sci., D/2197
9911 Brecksville Rd.
Brecksville, OH 44141-3247
(216) 447-5408, FAX: (216) 447-5575
Valerie.Woodward@noveoninc.com

AFFILIATED REGIONAL SOCIETIES

Appalachian Regional Microscopy Society (AReMS)
http://www.uvawise.edu/arems/index.html
Dr. J. Rex Baird (President and Webmaster)
Dept. of Natural Sciences
University of Virginia at Wise; Wise, VA 24293
Phone: 276-328-6540
email: bairds@bellatlantic.net

Arizona Imaging and Microanalysis Society (AIMS)
http://www.azmicroscopy.org/
Gary Chandler (President)
Materials Science and Engineering
University of Arizona
Tucson, AZ 85721-0012
Phone: 520-621-6078
FAX: 520-621-8059
email: gwc@u.arizona.edu

Capital District Microscopy and Microanalysis Society (CDMMS)
http://home.nycap.rr.com/cdmms/
James J. McGee
Lockheed Martin
PO Box 1072
Schenectady, NY 12301-1072
Phone: 518-395-4612
email: jmcgee@nycap.rr.com

Central States Microscopy and Microanalysis Society (CSM&MS)
http://treefrog.cvm.uiuc.edu/csmms/
Lou Ross (President)
University of Missouri; Electron Microscopy Core
W136 Vet. Med. Bldg.; Columbia, MO 65211
Phone: 573.882.4777
FAX: 573.884.5414
email: rosslm@missouri.edu

Colorado Microbeam Analysis Society (CoMAS)
http://www.msa.colostate.edu/mssem_cmas/
Isabelle Brownfield (President)
Microbeam Lab
US Geological Survey
Box 25046 MS 973
Denver Federal Center
Denver, CO 80225-0046
Phone: 303-236-4953
FAX: 303-236-3187
email: ibrownfield@usgs.gov

Instrumental Analysis Society (IAS)
Thomas R. Parayil
Allegheny Ludlum Corp.; Technical Center
Alabama and Pacific Aves.
Brackenridge, PA 15014
Phone: 724.226.6290
FAX: 724.226.6452
email: TParayil@AlleghenyLudlum.com

Metro (Metro)
Albert Sicignano (Chairman)
Nanometrology LLC
Ardsley Park Science and Technology Ctr
440 Saw Mill River Rd
Ardsley, NY 10502
Phone: 914-674-8649
FAX: 914-674-8683
email: alsicignano@att.net

Metropolitan Microscopy Society (M2S)
Phillip L. Flaitz (Co-Chairman)
IBM Analytical Services Group
1580 Route 52 - Z/E40; Hopewell Junction, NY 12533
Phone: 914.892.3094
FAX: 914.892.2555
email: pflaitz@vnet.ibm.com

Michigan Microscopy & Microanalysis (MMM or M3)
Geoff Williams (President)
217 Brooks Hall
Biology Dept
Central Michigan University
Mt. Pleasant, MI 48859
Phone: 989-774-3576
FAX: 989-774-3462
email: ge.willi@cmich.edu

Microbeam Analysis Society of Australia (AusMAS)
Clive Nockolds
Electron Microscope Unit
University of Sydney; Sydney, NS W Australia
Phone: 61.02.692.2351
FAX: 61.02.692.4671
email: clive@mail.emu.usyd.edu.au

Microscopy Society of Northeastern Ohio (MSNO)
Valerie P. Woodward (Secretary)
The BFGoodrich Company
Research & Development Center
9921 Brecksville Road; Brecksville, OH 44141
Phone: 216/447-5408
FAX: 216/447-5575
email: Valerie.Woodward@noveoninc.com

Microscopy Society of the Ohio River Valley (MSORV)
Luann Piazza (Contact)
Air Force Research Laboratory
Wright-Patterson Air Force Base
4401 Dayton-Xenia Road; Dayton, OH 45432
Phone: 937-255-1323
FAX: 937-656-4660
email: luann.piazza@wpafb.af.mil

Mid-Atlantic Microbeam Analysis Society (MAMAS)
Ryna Marinenko & John Henry Scott
National Institutes of Standards and Technology
Bldg. 222; Room A113
Gaithersburg, MD 20899-8371
Phone: 301.975.3901
FAX: 301.217.1134
email:ryna.marinenko@nist.gov, or
johnhenry.scott@nist.gov

Midwest Microscopy and Microanalysis Society (M3S)
http://www.msa.microscopy.com/MSALAS/MMMS/MMMSHomePage.html
Robert Mierzwa (Program Coordinator)
JEOL USA Inc.
3906 Lisa Avenue; Sheboygan, WI 53083
Phone: 920-803-8945
FAX: 920-803-8946
email: mierzwa@jeol.com

Minnesota Microscopy Society (MMS)
http://charfacnu.cie.umn.edu/MnMicSoc.html
Mike Coscio (MAS Representative)
C/O Medtronic Inc./Promeon Div.
6700 Shingle Creek Parkway; Brooklyn Center, MN 55430
Phone: 612.514.1331
FAX: 612.514.1284
email: mike.coscio@medtronic.com

New England Society for Microscopy (NESM)
http://prism.mit.edu:8083
Anthony J. Garratt-Reed (President)
MIT Room # 13-1027
77 Massachusetts Avenue; Cambridge, MA 02139-4307
Phone: 617-253-4622
FAX: 617-253-4622
email: tonygr@mit.edu

New Mexico Microbeam Users Group (NMMBUG)
Paul Kotula (President)
Sandia National Laboratories
MS-0886
Albuquerque, NM 87185-0886
Phone: 505.844-8947
FAX: 505.844-2974
email: pgkotul@sandia.gov

North Carolina Society for Microscopy and Microbeam Analysis (NCSMMA)
http://www.msa.microscopy.com/MSALAS/NCSMMA/NCSMMAHomePage.html
Mike L. Franklin (President)
Glaxo Wellcome Inc.
Five Moore Drive
Research Triangle Park, NC 27709-3398
email: MF8001@Glaxowellcome.com

Oklahoma Microscopy Society (OMS)
http://www.ou.edu/research/electron/oms/
Shelby Mattison (Secretary/Treasurer)
University of Oklahoma
Department of Botany and Microbiology
770 Van Vleet Oval; Norman, OK 73071
Phone: (405)325-6234
email: shelby@ou.edu

Philadelphia Society for Microscopy (PSM)
http://www.msa.microscopy.com/~psmlas/PSMHomePage.html
Robert A. Carlton (President)
GlaxoSmithKline
UW 2960, PO Box 1539; 709 Swedeland Road
King of Prussia, PA 19406
Phone: 610-270-6358
email: carltra@aol.com

Sensors and Surface Technology Partnership
http://bilbo.chm.uri.edu/SST/
Michael Platek (President)
University of Rhode Island
4 East Alumni Avenue
Kingston, RI 02895
Phone: 401.874.5828
FAX: 401.782.6422
email: Platek@ele.uri.edu

SouthEastern Microscopy Society (SEMS)
http://www.semicroscopy.org
Gregory W. Erdos (President)
P.O. Box 118525, 217 Carr Hall
University of Florida
Gainsville, FL 32611
Phone: 352-392-1295
FAX: 352-392-1295
email: gwe@ufl.edu

Southern California Society for Microscopy and Microanalysis (SCSM&M)
http://www.scsmm.org/
Mike Pickford (Secretary & Webmaster)
380 N. Via Porto; Anaheim, CA 92806
Phone: 714.731.9191x320
FAX: 714.731.5938
email: mspford@pacbell.net

SUSTAINING MEMBERS - MAS THANKS YOU FOR YOUR SUPPORT

4pi Analysis, Inc.
3500 Westgate Drive, Suite 403
Durham, NC 27707
(919)489-1757 FAX: (919)489-1487
email: info@4pi.com
Contact: **Beth Gregory/Scott Davilla**
Internet: http://www.4pi.com
EDS & Imaging, Hard- and Software

Advanced MicroBeam, Inc.
4217 C King Graves Road, P. O. Box 610
Vienna, OH 44473-0610
(330)394-1255 FAX: (330)394-1834
email: dlesher@advancedmicrobeam.com
Contact: **Donald Lesher**
Internet: http://www.advancedmicrobeam.com
Microprobe Serv., Automation, Image Analysis

Cameca Instruments, Inc.
204 Spring Hill Road
Trumbull, CT 06611-1356
(203)459-0623 FAX: (203)261-5506
email: sales@cameca.com
Contact: **Andrew Davis, David Snoeyenbos**
Internet: http://www.cameca.fr
EPMA, Sector & TOF SIMS, Atom Probe

Carl Zeiss SMT
One Zeiss Drive
Thornwood, NY 10594
(914)747-7700,(800)356-1090
FAX: (914)681-7443
Contact: **Jeff Streger/German Neal**
Internet: http://www.smt.zeiss.com/
SEM, Optical, & Scanning Confocal Microscopes

Denton Vacuum, LLC.
1259 North Church Street
Moorestown, NJ 08057
(856)439-9100 FAX: (856)439-9111
Contact: **George Lutz/John Crowe**
email: info@dentonvacuum.com
Internet: http://www.dentonvacuum.com
Vacuum Coaters and Critical Point Dryers

EDAX Inc.
91 McKee Drive
Mahwah, NJ 07430
(210)529-4880 FAX: (201)529-3156
Email: bjorn.bergsten@ametek.com
Contact: **Bjorn Bergsten/Derek Redfern**
Internet: http://www.edax.com
PC based microanal., microfocus, & bulk EDXRF systs

Electron Microscopy Sciences / Diatome US
1560 Industry Road PO Box 550
Hatfield, PA 19440
(800)523-5874 (215)412-8400
FAX: (215)412-8450
email: sgkcck@aol.com
Contact: **Stacie Kirsch/Bang Nguyen**
Internet: http://www.emsdiasum.com
EM and LM Supplies and Diamond Knives

Energy Beam Sciences, Inc.
11 Bowles Road
Agawam, MA 01001-3826
(800) 992-9037 FAX: (413) 789-2786
email: ebs@ebsciences.com
Contact: **Mike Nesta/Mike Dufraine**
Internet: http://www.ebsciences.com
EM Equip. and Supplies

FEI Company
5350 NE Dawson Creek Drive
Hillsboro, OR 97124
(503)726-7500 FAX: (503)726-7509
email: gscholes@feico.com
Contact: **Andree Kraker/George Scholes**
Internet: http://www.FEIC.com
LaB6 & CeB6 Tips, FIB & FIB/SEM Workstations

Gatan, Inc.
5933 Coronado Lane
Pleasanton, CA 94588-3334
(925)463-0200 FAX: 925)463-0204
Email: jhunt@gatan.com
Contact: **John A. Hunt/Miriam Ritter**
Internet: http://www.gatan.com
TEM Accessories and Spec. Prep. Equipment

Geller MicroAnalytical Laboratory
426E Boston Street
Topsfield, MA 01983-1200
(800)MICRO-LL (978)887-7000
FAX: (978) 887-6671
email: jg@gellermicro.com
Contact: **Joe Geller/Charles Herrington**
Internet: http://www.gellermicro.com
EPMA, SEM/EDS, & Auger Serv. -EM Stds

Hitachi High Technologies America, Inc.
5100 Franklin Dr.
Pleasanton, CA 94583
(925) 218-2800 FAX: (925) 218-2900
email: emdsales@hitachi-hta.com
Contact: **Steve Joens/Beth Moseley**
Internet: http://www.hitachi-hta.com
SEM, TEM, & Field Emission SEM, TEM,STEM, & FIB

IXRF Systems, Inc.
15715 Brookfield Dr.
Houston, TX 77059
(281) 286-6485
Contact: **Kenny Witherspoon**
Internet: http://www.ixrfsystems.com
EDS Systems & Upgrades, Micro X-Ray Fluorescence & Digital Imaging

JEOL USA, Inc.
11 Dearborn Road
Peabody, MA 01960
(508)535-5900 FAX: (508)536-2205
email: eod@jeol.com
Contact: **Charles Nielsen/Peter Genovese**
Internet: http://www.jeol.com
EPMA, Auger, SEM, TEM, NMR, Mass Spec, & STEM

Lehigh University
Materials Science Department
5 East Packer Avenue
Bethlehem, PA 18015
(610)758-4249 FAX:(610)758-4244
Contact: **David Williams/Charles Lyman**
Internet:http://www.lehigh.edu/microscopy.html
Education in SEM, AEM, AFM, & Microanalysis

Materials Analytical Services, Inc.
3945 Lakefield Court
Suwanee, GA 30024
(800)421-8451 (770)448-3200
FAX: (770)368-8256
email: mriglermas@aol.com
Contact: **Mark Rigler/Bill Longo**
Internet: http://www.mastest.com
FTIR,EDXRF,S(TEM),SEM,FIB,STM&XRD Serv.

Micron, Inc.
3815 Lancaster Pike
Wilmington, DE 19805-1599
(302)998-1184 FAX: (302)998-1836
email: microanalytical@compuserve.com
Contact: **James F. Ficca/ James M. Ficca**
Internet: http://www.micronanalytical.com
Anal. Serv. - OM, SEM/EDS, TEM, EPMA, ESCA, AUGER, DSC, TGA, FTIR

Oxford Instruments, Inc.
Microanalysis Group
130 A Baker Avenue Ext.
Concord, MA 01742-2204
(978)369-9933 FAX: (978)369-8287
email: rowlands@ma.oxinst.com
Contact: **Neil Rowlands/Ruth Murray**
Internet: http//www.oxford-instruments.com
Link EDS Systems, Microspec WDS, EM Cryo Access., CL & BSD

Princeton Gamma-Tech
1026 Route 518
Rocky Hill, NJ 08553-1031
(609)924-7310 FAX: (609)924-1729
email: doug.skinner@pgt.com
Contact: **Doug Skinner/Ted Juzwak**
Internet: http://www.pgt.com
EDS & Image Analysis for EM and OM

RONTEC USA, Inc.
90 Martin Street
Carlisle, MA 01741
(978) 266-2900 Fax (978) 929-9313
email: psmith@rontecusa.com
Contact: **Paul Smith/Marie Fiedrich**
Internet: http://www.rontec.com
EDS, EPMA., Image Anal. for EM & integrated EDS/ EBSD

SEM / TEC Laboratories, Inc.
5025 S. 33rd Street
Phoenix, AZ 85040
(602)276-6138 FAX: (602)232-2225
email: edsworth@aol.com
Contact: **Ed Holdsworth**
Internet: http://www.semtec.com

SPI Supplies / Structure Probe, Inc.
569 E. Gay Street, P. O. Box 656
West Chester, PA 19381-0656
(800)242-4774 (610)436-5400
FAX: (610)436-5755
email: cgarber@2spi.com
Contact: **Charles Garber/Andrew Blackwood**
Internet: http://www.2spi.com
EM Prep. Equip. and Supplies / Serv. Lab

Thermo Electron Corporation
5225 Verona Road, Bldg 4
Madison, WI 53711
(608)276-6100 FAX: (608)273-6865
email: dennis.masaki@thermo.com
Contact: **Dennis Masaki/Dave Rohde**
Internet: http://www.thermo.com
Microanal. Systems, WDS Spectrometers, EBSD, & EDXRF Systems