



MicroNews

Spring 2001 Newsletter of the Microbeam Analysis Society

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

PRESIDENT'S MESSAGE

Dear Members,

I am very pleased to announce the new members of the MAS council - Greg Meeker is President-Elect and Harvey Freeman will continue for another term as MAS Treasurer. The newly elected Directors are Ernie Hall and Stacie Kirsch. Thanks to all of them for their enthusiastic service to the Society. I would also like to acknowledge the exceptional support of the outgoing Directors, Inga Musselman and Paul Carpenter.

The MAS Council continues its efforts to examine the appropriate mix of programs and services to its members, and the financial obligations that result. There is on-going work to enhance the communications between MSA and MAS regarding the annual M&M meeting, and to support the continuing journal publication that serves both societies. More will be forthcoming at the summer MAS Business Meeting about the financial future of the Society. I welcome your input about key issues that MAS should be addressing, both scientific and programmatic, that would reinforce its role as a leading advocate for the microanalysis community.

The Microscopy and Microanalysis 2001 meeting is shaping up to be an outstanding venue for information on the latest developments in microanalysis. The Program Chair, Bob Price, and Co-Chairs Edgar Voelkl (MSA) and Inga Musselman (MAS), have assembled an excellent technical program. Special symposia this year include "Microscopy and Microanalysis in the Real World," a special biological symposium, and "Atom Location by Channeling Enhancement of

X-Ray and EELS Signals". As always, there will be a wide array of papers highlighting applications in biological and materials science applications, and the world's largest display of microscopes and related equipment. A special congress, "Imaging Life: From Cells to Whole Animals," as well as several workshops and short courses precedes the meeting.

The Local Arrangements Committee, headed by Robert Koch, has provided for an excellent venue at the Long Beach Convention Center. They have also arranged a diverse program of social events including a Sunday night reception on the Queen Mary, the annual golf tournament, a harbor cruise, and a large number of options for enjoying the city and the surrounding area. With its rich history, wealth of educational institutions and active industry, Long Beach provides a wonderful context for this meeting.

The MAS Presidential Happenings session at M&M 2001 will feature Eric Doehne's presentation on "The Role of Microscopy and Microanalysis in Cultural Heritage Preservation". The talk will focus on examples of particular problems in the deterioration of objects, architecture and archaeological sites and the use of a range of methods to address these challenges. In addition, the 2001 MAS awards to be presented at the MAS Happenings session include the Presidential Award for a Significant Scientific Contribution to Philip Batson at IBM for his research in spatially resolved electron energy loss spectroscopy; the MAS Heinrich Award for an Outstanding Young Scientist to Chris Jacobsen at

SUNY-Stony Brook for his work in x-ray microscopy and analysis; and the MAS Service Award to Charles Lyman at Lehigh University for his many contributions as President and Journal Editor. I look forward to the formal presentations in August and encourage you to attend! Finally, remember to stop by the MAS Booth at the Long Beach Convention Center, in part to obtain your ticket for the MAS Social which has become a regular feature at the M&M Meetings!

Rich Linton,
MAS President

EDITOR'S NOTE

My apologies to the council nominees whose photographs appeared in MicroNews Fall 2000. In my zest to send the issue out to the printer as quickly as possible, I failed to send hard copies or digital formats of the photos to the printer. Xerox copies of photographs do not print well. Fortunately the nominees' photographs in the copy of the vitae sent with the ballot were recognizable.

I want to thank representatives of the Affiliated Regional Societies who continue to notify me of their meetings. I know you do not often have much advance notice on the place, time, and date of your next meeting, so it is difficult to get the announcement into MicroNews. When possible, I do try to publish the information. If any ARSs have new web sites where meeting plans are announced, please let me know. Also, I do not mind announcing meeting information even if you already have it on a web site.

Ryna Marinenko
Editor

MEMBERSHIP SERVICES

Everyone should have received a renewal application packet in January. I hope you liked the MAS Directory and have sent in your dues for 2001. If not, please send your renewal application in as soon as possible. This year I am striving to increase the membership by 20%, or roughly 100 new members. I have inserted invitations to join MAS in last issue of Microscopy Today thanks to Don Grimes, sent applications to the ARS contacts through Paul Hlava, and had Kathy Archibald from Bill Thompson's office send renewal forms out to former members. I am actively pursuing

other ideas, but in one area I need your help. If you know a colleague or student who is not a member of MAS but utilizes microbeam techniques, please give them the application form found in MicroNews, and by all means, feel free to photocopy the application form for distribution. Also, if you have any ideas on how to increase our membership please contact me. As always, don't hesitate to drop me a note or give me a call if there is anything that Membership Services can do for you.

Lou Ross
Membership Services

MAS TOUR SPEAKER PROGRAM

MICRONEWS

Tour Speakers

The three speakers, their affiliations, and titles for this year's MAS Tour Speaker Program are Jim Bentley - Oak Ridge National Laboratory - Energy-filtered Transmission Electron Microscopy of Materials, Valerie Woodward - B. F. Goodrich - "What the Heck Happened to This?" ? Real Life Failure Analysis Using Microscopy and Microanalysis (Fiori Speaker), and Paul Hlava - Sandia National Laboratories - Causes of Color in Minerals and Gemstones. Full details can be gleaned from the website - <http://www.microanalysis.org/mas/masts/masts.html>. By the time this reaches you, 8 talks will have occurred and 5 more are scheduled for the spring. They are:

Society	Speaker	Date
AIMS	Bentley	Feb. 22, 2001
AREMS	Hlava	Oct. 19, 2000
CoMAS	Hlava	Nov. 15, 2000
CSM&MS	Hlava	May 4, 2001
MAMAS	Bentley	Oct. 19, 2000
MMS - MN	Woodward	May 4, 2001
MMM-MI	Bentley	Oct. 20, 2000
MSNO	Bentley	May 15-17, 2001
MSORV	Hlava	May 11, 2001
NCSMMA	Anderson	Oct. 13-15, 2000
NESM	Hlava	Dec. 1, 2001
NMMBUG	Bentley	Feb. 26, 2001
SEMS	Bentley	May 23-25, 2001

Wow! That is the busiest tour speaker year we have ever had and we would have had one more except that two societies were asking for the same person on the same day.

I encourage all of our unvisited affiliated societies to give a thought to securing one of these speakers for your meeting. We can still fit in a visit or two. Of course, these 3 speakers

will be available until the end of December, 2001. Yes, these speakers overlap with the new people who will be decided upon in Long Beach this summer. I want to remind the affiliated society representatives that they, or their designated alternatives, are to meet at noon on Tuesday, Aug. 7, 2001 to choose next year's speakers. See you then!

I would like every affiliated society to check their listing on the contact page - <http://www.microanalysis.org/mas/masas/masas.html> – and contact me with any corrections.

Paul Hlava
Director of Affiliated Regional Societies

IUMAS II - THANK YOU!

From: Dave Williams, Gordon Cleaver and Tom Huber,
the co-organizers of IUMAS II

The Sustaining Members of MAS and other industrial contributors donated a total of \$38,000 towards support of the IUMAS II technical program and student travel scholarships. This sum represents an outstanding commitment to microbeam analysis and permitted the creation of a technical program of the highest quality and helped many students attend a meeting that, otherwise, they would have missed. Because of this extraordinary generosity, the meeting, attended by over 400 scientists, engineers and exhibitors, was able to operate without loss to the co-sponsoring societies.

Any contributors who have not yet received their free copy of the technical proceedings of IUMAS II should contact Sharon Coe at Lehigh (slc6@lehigh.edu)

MEETINGS AND SHORT COURSES

Meetings

EMAS 2001 - 7th European Workshop on Modern Developments and Applications in Microbeam Analysis, May 6-10, 2001, Tampere, Finland
Contact: Luc Van't dack, Secretary, Univ Antwerp: Fax: +32 3 820 23 76, email: vantdack@uia.ua.ac.be, or web: <http://www.emas.ac.uk>

Scanning 2001, May 5-7, 2001, The Roosevelt Hotel, New York, New York, USA
Contact: Paula Pivnick, Scanning 2001, PO Box 832, Mahwah, NJ 07430-0832, (201)818-1010, FAX: (201)818-0086, email: scanning@fams.org, or web: <http://www.scanning.org>

SCANDEM 2001 Microscopy Conference and Exhibition, June 12-15, 2001, Stockholm, Sweden
Contact: Biology: email: Hans.Hebert@csb.ki.se
Materials: Margareta Sundberg, email: marsu@inorg.su.se, Exhibition: email: Philip.Koek@csb.ki.se

ICXOM XVI: 16th Intl Conf on X-ray Optics and Microanalysis, July 2-6, 2001, Vienna, Austria
Contact: Sect: Fax: +43 1 58801 13799, email: icxom@icxom.at, or web: <http://www.icxom.at>

2nd Intl Conference on Scanning Probe Microscopy of Polymers, July 21-25, 2001, Weingarten, Germany
Contact: Klaus Weishaupt, Fax: +49 0 700 94832 329, email: klaus.weishaupt@witec.de, or web: <http://www.witec.de/spm2001>

MICROSCOPY & MICROANALYSIS 2001, Aug. 5-9, 2001, Long Beach, CA
Contact: Mary Rebedeau, Chicago: Fax (708)361-6166, email: MSA@tradeshownet.com, or web: msa.microscopy.com

4th International Conference on Noncontact Atomic Force Microscopy (NC-AFM2001), Sept. 2-5, 2001, Kyoto, Japan
Contact: Y. Sugawara: Fax: +81-6-6879-7764, email: sugawara@ele.eng.osaka-u.ac.jp, or web: <http://www-e2.ele.eng.osaka-u.ac.jp/NC-AFM2001>

5th Multinational Congress on Electron Microscopy, Sept. 20-25, 2001, Lecce Italy
Contact: Dr Massimo Catalano, email: mcem5@ime.le.cnr.it, or web: www.mcem5.unile.it

Eastern Analytical Symposium, Sept. 30 – Oct. 4, 2001, Atlantic City, NJ, USA
Contact: EAS Hotline: Fax: +1 610 485 9467, email: easinfo@aol.com, or web: www.eas.org

NIST-MAS Special Topics Workshop, *Understanding the Accuracy Barrier in Quantitative Electron Probe Microanalysis and the Role of Standards*, Oct. 15-18, 2001, NIST; Gaithersburg, MD.
Contact: dale.newbury@nist.gov, (301)975-3921, , or ryna.marinenko@nist.gov, (301)975-3901, FAX: (301)417-1321, or web: www.nist.gov

17th Australian Conf on Electron Microscopy, Feb. 4-8, 2002, Adelaide, Australia
Contact: web: www.adelaide.edu.au/CEMMSA/acem17/main.htm

AXAA 2002 Conference on XRF, XRD and Surface Analysis, Feb. 11-15, 2002 Newcastle, NSW, Australia
Contact: Jane Yearman: Fax: 02 4984 2755, email: axaa@pco.com.au, or web: www.pco.com.au/axaa2002

AMAS VI - The 6th Biennial Symposium with SPM III - 3rd Scanned Probe Microscopy Conf, Feb. 14-16, 2002, Sydney, Australia
Contact: web: microscopy.org.au/symposium/symposium_homepage

Art 2002, 7th International Conference on Non-destructive Testing and Microanalysis for the Diagnostics and Conservation of the Cultural and Environmental Heritage, May 13-16, 2002, U of Antwerp (UIA), Antwerp-Wilrijk, Belgium
Contact: Art 2002 Secretariat; c/o University of Antwerp (UIA), Dept. Chemistry Universiteitsplein 1, BE-2610 Antwerp-Wilrijk, Belgium; Fax: +32-3-8202376, e-mail: vantdack@uia.ua.ac.be Website: <http://sch-www.uia.ac.be/art2002>

MICROSCOPY & MICROANALYSIS 2002, Aug. 4-8, 2002, Quebec City, Quebec, Canada
Contact: Mary Rebedeau, Chicago: Fax (708)361-6166, email: MSA@tradeshownet.com, or web: msa.microscopy.com

ICEM 2002 - 15th International Congress on Electron Microscopy, Sept. 1-6, 2002, Durban, South Africa
Contact: Robin Cross, Fax +27 46 622 4377, email: eurc@giraffe.ru.ac.za, or web: www.ru.ac.za/affiliates/emu/icem2002.htm

MICROSCOPY & MICROANALYSIS 2003, Aug. 3-7, 2003, San Antonio, TX
Contact: Mary Rebedeau, Chicago: Fax (708)361-6166, email: MSA@tradeshownet.com, or web: msa.microscopy.com

MICROSCOPY & MICROANALYSIS 2004, Aug. 1-5, 2004, Savannah, GA
Contact: Mary Rebedeau, Chicago: Fax (708)361-6166, email: MSA@tradeshownet.com, or web: msa.microscopy.com

Short Courses

Workshop on Quantitative Image Analysis, May 9-11, 2001, North Carolina State Univ, Raleigh, NC, USA
Contact: Cindy Allen: Tel: +1 (919)515 8171, cindy_allen@ncsu.edu, or web: <http://members.aol.com/IPCourse/> or <http://www.ncsu.edu/cpe>

Analytical and Quantitative Light Microscopy, May 10-18, 2001, Marine Biological Lab, Woods Hole, MA, USA
Contact: Carol Hamel: Tel +1 508 289 7401, email: admissions@mbl.edu, or web: courses.mbl.edu

FESEM Course, May 21-25, 2001, Hydro-Quebec Res Centre, Montreal, Canada
Contact: Pierre Hovington: Fax +1 450 652 8905, email: hovington.pierre@ireq.ca, or web: www.ireq.ca/ateliers
Workshop on Quantitative Image Analysis, June 6-8, 2001, Danish Technological Inst., Taastrup, Denmark
Contact: Cindy Allen: Tel: +1 (919)515 8171, cindy_allen@ncsu.edu, or web: <http://members.aol.com/IPCourse/> or <http://www.ncsu.edu/cpe>

Lehigh Microscopy School Course, June 11-22, 2001, Bethlehem, PA, USA:
SEM and X-ray Microanalysis (11-15)
Intro to SEM and EDS (10)
Advanced SEM (18-22)
Quantitative X-ray Microanalysis (18-22)
Analytical TEM (18-21)
TEM Specimen Preparation (19-21)
Atomic Force Microscopy (19-22)
Contact: Sharon Coe, FAX (610)758-4244, or web: <http://www.lehigh.edu/microscopy>

6th Ann. Internat. Course on 3D Microscopy of Living Cells, June 18-29, 2001, and **5th Post-Course Workshop on 3D Image Processing**, June 30-July 2, 2001, U. British Columbia, Vancouver, BC, Canada
Contact: www.cs.ubc.ca/spider/ladic/course/forms/register.txt or Elaine Humphrey Biosciences EM Facility, U. of BC, 6270 University Blvd., Vancouver, BC, V6T-1Z4 for registration and at www.cs.ubc.ca/spider/ladic/course/bulletin.html or JBPawley@facstaff.wisc.edu for information.

Summer WDS Short Course on Electron Microprobe Analysis by Wavelength Dispersive Spectrometry, July 16-18, 2001, MIT Electron Microprobe Facility, Cambridge, MA, USA
Contact: Nilanjan Chatterjee: Fax: (617) 253-7102; email: e-probe-www@mit.edu, or web: <http://web.mit.edu/e-probe/www/>

Workshop on Quantitative Image Analysis, Oct. 30 – Nov. 1, 2001, North Carolina State Univ, Raleigh, NC, USA
Contact: Cindy Allen: Tel: +1 (919)515 8171, cindy_allen@ncsu.edu, or web: <http://members.aol.com/IPCourse/> or <http://www.ncsu.edu/cpe>

Affiliated Societies' Meetings

AREMS, visit web site for information
<http://www.wise.virginia.edu/arems/>

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

MSNO, Spring Symposium, May 16, 200, Case Western Reserve U., School of Macromolecular Science. Contact: Valerie Woodward, (216)447-5408, woodward@brk.bfg.com. Web site: <http://www.msneo.org>

NCSEMMA

Contact: Peter Ingram or Ann LeFurgey; email: p.ingram@cellbio.duke.edu or a.lefurgey@cellbio.duke.edu
<http://152.3.167.174/NCAnnSymp2001.html>

SEMS, visit web site for information
<http://www.biotech.ufl.edu/sems/>

NIST – MAS WORKSHOP

In the last issue of MicroNews and on the MAS Listserver, there was a flyer describing an MAS Special Topics Workshop that will be held at NIST, Gaithersburg, MD, USA, October 15-18, 2001. This workshop, also part of the celebration of the NIST Centennial, is titled *Understanding the Accuracy Barrier in Quantitative Electron Probe Microanalysis and the Role of Standards*. The planning committee is Dale Newbury and Ryna Marinenko. General information on the workshop can be found on the NIST web site, www.nist.gov/conferences. Updated information on the tentative program has been sent out via email to those persons who expressed interest in attending. If you are interested and have not received the most recent information (sent 3/5/01), or if your email address has changed during the past three months, please notify Ryna Marinenko at ryna.marinenko@nist.gov. This meeting will be run on a very low budget with no professional meeting organizers. There will be NO registration fee but ALL participants will be REQUIRED to register. All detailed information for registrants will be provided via email from Ryna or Dale or through the NIST web site.

Dale Newbury
Ryna Marinenko

M&M 2001 SOCIAL EVENTS

Sunday Evening Reception

Dining and entertainment has been planned on the legendary Queen Mary. Live entertainment will include a wandering mariachi band, string quartet, magician in the banquet rooms, and a DJ playing a variety of dance music on the stern. Steeped in history and tradition, the Queen Mary is the grandest ocean liner ever built. During her illustrious career, she has played many roles—from elegant ocean liner to World War II troopship. All decks will be open so enjoy a stroll in the moonlight. Bus transportation will be provided between the Queen Mary and the Convention Center.

Baseball Game

The Angels are in town! Tickets to see the Chicago Cubs play the Anaheim Angels on Tuesday evening, August 7, will be available via the website soon and at the hospitality booth on site. Transportation will be included.

Wednesday Evening Social

The venue for the Wednesday Evening Social will be the motor yacht “*Spirit*” departing from Shoreline Village, Long Beach adjacent to the Convention Center. Live entertainment and a five-entry buffet will be provided during a leisurely cruise within the Long Beach and Los Angeles breakwater.

Annual Golf Tournament

The Annual Golf Tournament will take place at the Meadowlark Golf Course in the heart of Huntington Beach.

Local Attractions

Local attractions in the waterfront area include Queensway Bay, the Aquarium of the Pacific, Queen Mary exhibits, Pine Avenue restaurants, and golf.

Half-Day Trips

Half-day trips to Los Angeles are recommended to tour Griffith Park – The Zoo/Observatory, the Getty Museum, the Los Angeles County Museum of Art (LACMA), or Hollywood.

Full-Day Trips

Full-day trips outside the city are also possible including a cruise to Santa Catalina Island, and trips to Disneyland, Knott’s Berry Farm, or Universal Studios. Half-day or full-day sport fishing trips are also available from the 22nd Street Landing area.

Post Meeting Opportunities

Post meeting opportunities include extended scenic tours along the California Coast or a cruise to the Mexican Riviera.

Updates to all information will be available at the Southern California Society for Microscopy and Microanalysis website at www.scsmm.org.

Bob Price, MSA Program Chair
Edgar Voelkl, MSA Program Vice-Chair
Inga Musselman, MAS Program Co-Chair
Bob Koch, Local Arrangements Chair

**MICROBEAM ANALYSIS SOCIETY
2000 YEAR-END REPORT**

INCOME AND EXPENSE

<u>INCOME</u>	Actual	Budget
Member Dues (Budget amount - 512 Regular, 4 Student, 16 Emeritus)	\$11,570	\$13,000
Sustaining Member Dues (Budget amount - 28)	7,700	9,800
National Meeting (M&M '98)	5,379	-
National Meeting (M&M '99)	18,594	11,950
M & M Journal Subscriptions	3,126	3,200
Schwab Dividends & Interest	10,752	12,000
Interest on Rochester Checking Account	106	100
Income, Misc & M&M '99	20	-
Wiley Royalty to Fiori Fund	147	180
Contributions to Fiori & Potter Funds	920	450
Corporate Paper Award Reimbursements	<u>-</u>	<u>1,500</u>
Total Income	\$58,314	\$52,180

<u>EXPENSE</u>		
(10) Society Management (Accounting, Insurance, Fees, Misc)	\$11,812	\$10,000
(11) Membership Office	1,465	1,300
(15) Executive Council (Travel, Meetings, Accomodations)	14,133	12,000
(17) Foreign Society (EMAS & AMAS) Reciprocity	500	500
(20) Micronews	5,223	3,500
(22) WWW Maintenance	2,670	500
(30) M&M Journal (Subsidy to Members)	3,894	4,400
(40) Tour Speaker - Fiori Fund	1,465	500
(42) Potter Fund Support	-	-
(45) General Tour Speaker Program	4,618	2,500
(50) Topical Conference @ M&M 1999 and 2000	-	-
(55) Computer Workshop @ M&M 1999 and 2000	59	1,000
(60) MAS Functions @ M&M 1999 and 2000	9,481	6,000
(70) MAS Directory	-	3,000
(80) Student Support @ M&M 1999 and 2000	4,723	4,000
Student Support MAS @ Kona	-	1,200
(85) Paper Awards (Corp Sponsored)	1,300	1,500
(100) M&M 2000	232	-
(100) MAS in 2000 (Kona)		5,000
IUMAS Registration Income	-60,100	
Payments to IUMAS	57,350	
IUMAS Registration Processing – Accounting	902	
IUMAS Registration Processing - Credit Card Fees	<u>3,125</u>	
	1,277	
Total Expense	\$62,852	\$56,900
Net Income & Expense	(\$4,538)	(\$4,720)

Fiori Fund Balance \$7,820.62
Potter Fund Balance \$6,363.81

Society Assets: 1995 through 2000

	1995	1996	1997	1998	1999	2000
Total Assets	\$190,287	189,528	192,832	194,749	189,956	183,980

MICROBEAM ANALYSIS SOCIETY

BUDGET FOR 2001

INCOME and EXPENSE

INCOME

Member Dues (479 Regular, 23 Student, 24 Emeritus)	\$12210.00
Sustaining Member Dues (25)	8750.00
National Meeting (M&M 2000)	13900.00
IUMAS II (Kona) return on expenses	1283.00
IUMAS II Return of Advance	1000.00
M & M Journal subscriptions	3100.00
Schwab Dividends & Interest	10700.00
Interest on Rochester checking account	100.00
Wiley Royalty to Fiori Fund	140.00
Contributions to Fiori & Potter Funds	900.00
Corporate Paper Award Reimbursements	<u>1500.00</u>
	\$53583.00

EXPENSE

(10) Society Management (Accounting, Insurance,)	\$12000.00
(11) Membership Office	1500.00
(15) Executive Council (Travel, Meetings, Accomodations)	13000.00
(17) Foreign Society (EMAS & AMAS) Reciprocity	500.00
(20) MicroNews	5000.00
(22) WWW Maintenance	500.00
(30) M & M Journal (subsidy to members)	4000.00
(40) Tour Speaker - Fiori Fund	500.00
(42) Potter Fund Support	—
(45) General Tour Speaker program	4000.00
(50) Topical Conf., NIST 2001	2000.00
(60) MAS Functions @ M&M2001	7000.00
(70) MAS Directory	3500.00
(80) Student Support: M&M 2001	4800.00
(85) Paper Awards (Corp. sponsored)	<u>1500.00</u>
	\$59800.00

Projected Deficit in 2001

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\$(6217.00)

Harvey A. Freeman, Treasurer
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January 11, 2001

EXECUTIVE COUNCIL

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Stacie Kirsh (2001-2003)

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sgkck@aol.com

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 (Deceased)
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
David B. Wittry

ADDITIONAL MAS 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; thomsow@eznet.net

Affiliated Regional Societies

Paul Hlava

Sandia National Laboratories
Dept. 1822, MS-1405; Albuquerque, NM 87185-1405
(505)844-1890 FAX: (505)844-2974
pflhava@sandia.gov

Awards Committee for MAS 2000

Raynald Gauvin & Richard Leapman (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

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JEOL (USA) Inc.; 11 Dearborn Road
Peabody, MA 01960
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<http://www.jeol.com>

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Gordon Cleaver

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