



Features

Fond Memories of M&M
2011 Meeting

3

MSA Announces
Awardees for 2011

4

Call for Papers for M&M
2012 Now Online

4

Call for Applications for
MSA's (CEMT) Exam Cycle

4

Changes Coming to the
MSA Placement Office

4

Time to Renew Your MSA
Membership and Elect
New Society Officers

5

Thank You to Outgoing
MSA Leadership

5

MSA Undergraduate Research
Scholarship Program

5

New Awards for 2012

5

Calendar of Events

6

News

Letter from the President

Greetings to Fellow Microscopists/ Microanalysts, Colleagues, and Student Members of MSA. As 2011 comes a close, I'd like to take this opportunity to update you on the second half of the year for the Society. From my perspective, we have continued to have an enormously busy time.

While there have been numerous meetings both domestic and international in the Microscopy community, our annual meeting in Nashville remained one of the highlights worldwide. Nashville was by all measures a very successful meeting, ranking third highest in attendance following Chicago (#1) and then Portland (#2). As President, I had the unenviable role of having to be in too many places all at the same time. However, when I was able to break away and get time to participate in symposia, they were not only well attended but the scientific excitement that was evident made me wish I could stay longer, something which I hope to be able to do next year!

In addition to the meeting, our other major scientific and scholarly role is in our peer-reviewed Journal, *Microscopy and Microanalysis*. MandM continues to prosper, and its impact factor has increased once again this past year to 3.25, making it the highest ranked EM publication for yet another year. Its success has required the Society to renegotiate our contract to increase our number of published pages so that we can accommodate the influx of high quality research papers. At the same time, through our Publisher, Cambridge University Press, we have expanded the resources of the Journal to include a number of leading edge features which include: free full color printing, on-line publication ahead of print, on-line supplemental data with multimedia resources, and a host of other on-line tools. My congratulations to Bob Price, our MandM Editor, and his Editorial Board for continuing to do a fantastic job.

In a similar vein, *Microscopy Today*, our other publication created by Microscopists for Microscopists, continues to play its leading role in bringing timely and topical articles to the community on a bi-Monthly basis. Charles Lyman, our MT Editor, has put together a new dynamic for our Magazine



which is being copied by other societies, and together his team also deserves a round of kudos.

Last year's MSA Council, led by Dave Piston, introduced incentives to increase student and post-doctoral participation. We have continued to push forward in this arena, and this year have established two new named Post-Doctoral awards in honor of Albert Crewe and George Palade. The details on how to nominate candidates can be found on our Society Web pages. We have also doubled the number of student scholarships available for next year's meeting.

While early this year Membership seemed steady, our records show we slipped slightly (-3%) as summer ended and numerous memberships expired. I'm pleased to see that the numbers are growing again, now that renewals have restarted. On a positive note, student participation is growing and as of last week I see that students make up approximately 9% of our membership. This is a good trend for the future.

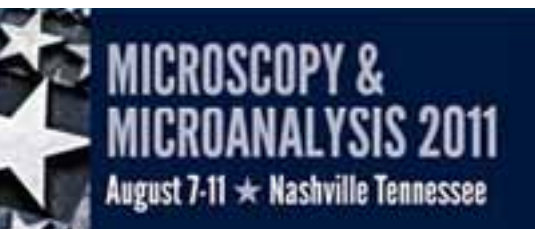
Balancing the use of electronic and social media for effective communication is a difficult beast to manage. This I know in gory details from over 15 years of managing the original MSA Web site. MSA has not only a Web presence, Email News Blasts, Facebook and LinkedIn pages but also for the last three years has been augmenting our outreach to the membership with this electronic newsletter. Council has taken the pulse of the community concerning this media and we have come to the conclusion that its effectiveness has been at best marginal. There are numerous reasons why this is the case, but in the end virtually all of the information which is found herein, can be located on-line on the Society Web pages. As such, we have decided to concentrate our resources and efforts elsewhere. Thus, this will be the last issue of the MSA E-Newsletter which is being retired.

It has been a very busy and also tiring year for me, but at the same time it has been a privilege serving as your President. I have started a few small projects which will take my year as Past-President to bring to fruition. Hopefully, they will in some small measure leave the Society a bit better off than when I took office. Fortunately for you all, I am turning over the reins of office to Janet Woodward, and I am confident she will lead us forward to yet another successful year. Thanks to all of you for your hard work and cooperation. See you all in Phoenix in 2012.

Cheers,

Nestor J. Zaluzec
2011 MSA President

Fond Memories of M&M 2011 Meeting



Like that nourishing Music City confection, this year's Microscopy & Microanalysis Meeting, held August 7–11 in Nashville, was a GooGoo Cluster of top-notch science and networking. M&M is the annual meeting for the Microscopy Society of America, the Microanalysis Society, and the International Metallographic Society. It is the premier conference for microscopists working in the physical, life, and analytical sciences. This year's conference attracted 1,607 scientific attendees from 35 countries; the total number of attendees was 2,629. The perennially successful exhibitors' floor was again noteworthy with 113 companies providing the opportunity to wander 362 booths (9% more than the previous year) occupying 36,200 square feet with state-of-the-art instrumentation and publications.

The Renaissance Nashville Hotel Grand Ballroom was a fitting venue for the Sunday evening reception where new and familiar colleagues were able to get acquainted, catch up on the latest science and innovations, share memories, forge new collaborations, and relax, mingle, and nosh. By the next morning, the same venue was reconfigured for the opening plenary session that attracted an audience of some 1,200 scientists, technologists, students, and guests. The society presidents, Nestor Zaluzec (MSA), John Henry J. Scott (MAS), and Nat Saenz (IMS) officiated at this session that included two plenary talks, the announcement of new MSA fellows, and the presentation of named awards.

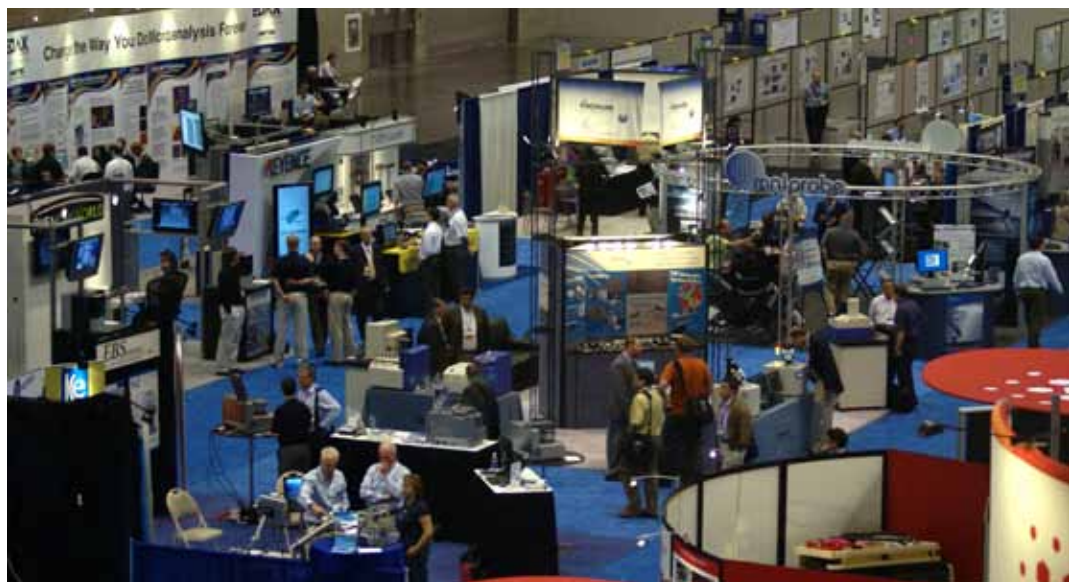
Both plenary speakers presented work with the common theme of pushing the limits of resolution. The first plenary lecture, sponsored by MAS, was titled "In-situ X-ray Micro/ Nanoprobe Characterization of Materials: How Billion Dollar Synchrotron Sources are Pushing the Limits of Structure and Chemical Resolution in 3D" by Gene E. Ice of the Oak Ridge National Laboratory. Dr. Ice explained how ultra-brilliant X-ray sources and nondestructive micro/nanoprobe methods are being applied to long-standing issues in materials physics. Ice then, in true Tennessee fashion, treated the crowd to a song about the wonders of X-ray nanoprobe analysis. The MSA plenary speaker was Stefan W. Hell of the Max Planck Institute for Biophysical Chemistry and director of the Department of NanoBiophotonics. Professor Hell presented "Nanoscopy with Focused Light" in which he introduced the concept of stimulated emission depletion microscopy that has shattered the diffraction limit and allowed light microscopy to reach resolutions at the nanometer scale.

The meeting continued with both thematically linked and independent symposia. For example, there were symposia presentations by researchers using advanced fluorescence techniques such as super-resolution, single-molecule imaging, intra-vital and live cell imaging, and

total internal reflection microscopy. Other popular sessions were offered in the symposium "Opportunities and Advances for In-situ Experiments in Electron-Optical Instruments." There also were two named symposia titled "A.V. Crewe Memorial Symposium: From Images of Single Atoms to Single Atom Spectroscopy and Beyond" and "Microanalysis at 60 years: A Symposium Dedicated to Raymond Castaing." The session on "3D Structure of Macromolecular Assemblies, Cellular Organelles, and Whole Cells" proved to be a strong draw, as it was at the 2010 meeting.

Approximately 200 invited and 800 contributed papers were organized into 17 Instrumentation and Techniques symposia, 10 Biological Sciences symposia, and 9 Physical Sciences symposia. In addition, there were Technologist Forum sessions and a variety of educational short courses, workshops, and outreach activities. This year the poster sessions occupied some 21,840 square feet, and each day's session ended with MSA president Nestor Zaluzec announcing the student poster winners to lively crowds.

In the end, Music City provided an exciting backdrop for a successful meeting. We look forward to next year's meeting to be held in Phoenix, Arizona, July 29–August 2, 2012.



MSA Announces Awardees for 2011

The Microscopy Society of America is proud to announce the recipients of the 2011 Society awards:



Distinguished Physical Scientist Award

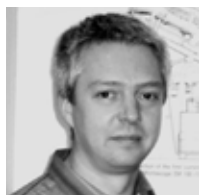
Prof. Dr. Hannes Lichte from Dresden University, Germany.



Distinguished Biological Scientist Award

Prof. Ueli Aebi from the University of Basel, Switzerland.

The Distinguished Scientist Awards recognize preeminent senior scientists from both the Biological and Physical disciplines who have a long-standing record of achievement during their career in the field of microscopy or microanalysis.



Burton Medal

Radostin Denev of the National Institute for Physiological Science in Okazaki, Japan.

The Burton Medal was initiated to honor the distinguished contributions to the field of microscopy and microanalysis of a scientist who is less than 40 years of age as of January 1st of the award year.



Hildegard H. Crowley Outstanding Technologist Award (Biological Sciences)

Robert Grassucci from Columbia University.

The Outstanding Technologist Awards honor technologists from both the Biological and Physical Sciences who have made significant contributions, such as the development of new techniques which have contributed to the advancement of microscopy and microanalysis.



Morton D. Maser Distinguished Service Award

Janet Woodward of Buckman USA.

This Award was initiated to recognize outstanding volunteer service to the Society as exemplified by Mort Maser, who served the Society for many years with great dedication. This award is made to honor an MSA member who has provided significant volunteer service to the Society over a period of years.

Please join us in congratulating these winners. We also encourage all MSA members to consider worthy individuals for the 2012 Major Society Awards program.

Applications Now Being Accepted for MSA's 67th Certified Electron Microscopist Technician (CEMT) Exam Cycle

January 18, 2012 is the final date to submit applications for the first exam cycle of the year. Those wishing to apply for the Certified Electron Microscopist Technician certification program are encouraged to visit <http://www.microscopy.org/education/programs> for the latest updates, background on the program and a full brochure. Start the New Year off right by considering certification in 2012.

Changes Coming to the MSA Placement Office!

This January, MSA will unveil a new and improved Placement Office service, offering opportunities for members, students and industry to take advantage of the MSA network. Search the latest job listings and even post your resume online. Stay tuned and visit <http://www.microscopy.org/news/jobs> to see the latest listings. The new service is scheduled to be operational on or before January 31st, 2012. For more information, contact us at (703) 234-4137.

Call for Papers for M&M 2012 Now Online

Microscopy & Microanalysis 2012 is the premier meeting for scientists, technologists, and students who use microscopy or microanalysis in their research. Our Program Committee has once again put together an outstanding program with over 30 symposia reflecting the current state-of-the-art as well as the innovative and emerging fields of research in the life, physical, and analytical sciences. Members and others are encouraged to submit papers online by visiting <http://www.microscopy.org>. The deadline to submit your work is February 15th, 2012. For the latest information on M&M 2012, visit <http://www.microscopy.org>



Time to Renew Your MSA Membership and Elect New Society Officers

The MSA renewal season is upon us. We hope that you will choose to support the Society and its operations once again in 2012. Invoices and elections ballots for 2012 have just recently been mailed. We want to make this year's renewal process as easy as possible for you, so do not hesitate to contact us with questions.

The deadline to cast your vote for 2012 Society Officers and Directors is different from the renewal deadline. Votes for Officers and Directors must be received online on or before midnight, Pacific time, on Thursday, December 15th, 2011.

Our secure online system means that your vote will be submitted in less than five minutes.

Individuals with memberships expiring on December 31st may renew either online at <http://www.microscopy.org> or via fax, phone, or mail. During renewal, you may also join a Focused Interest Group (FIG) or purchase journal subscriptions through this service. If you are unsure of your membership status or have questions, please call your MSA Association Office at (703) 234-4115.

Thank You to Outgoing MSA Leadership

The Society would cease to function if it were not for the help of dedicated volunteers. We wish to thank outgoing Council members and committee Chairs, who served honorably and were formally honored at M&M 2011 in Nashville this past August.

Michael Marko, Council Director, 2009–2011

Frank Macaluso, Technologists Forum Chairman

Michael Mallamaci, e-Newsletter Editor

Bob Hirche, Membership Committee Chairman

David Giovannucci, M&M 2011 Program Committee Chair

Jeanette Killius, MSA Secretary, 2009–2011

Pamela Lloyd, Council Director, 2009–2011

David Tomlin, Council Director and Local Affiliated Society Chair 2009–2011

Dave Piston, MSA Past President, 2009–2010

MSA Undergraduate Research Scholarship Program

Several MSA Sustaining members have generously agreed to provide matching funds for the MSA Undergraduate Research Scholarship Program. These funds enable us to support an increased number of student projects for 2012. We encourage you to alert your students to this opportunity! The deadline for applications is December 31, 2011.

To request an application, contact MSA Headquarters at (703) 234-4115 or associationmanagement@microscopy.org. You may also visit <http://www.microscopy.org/awards/scholarships> to download an application form.

New Awards for 2012

MSA is happy to announce the addition of two new post-doctoral awards for 2012. They are:

The Albert Crewe Award

The Albert Crewe Award was initiated to recognize the distinguished contributions to the field of microscopy and microanalysis in the physical sciences of a postdoctoral fellow of not more than 6 years' standing (since doctoral graduation).

The George Palade Award

The George Palade Award was initiated to recognize the distinguished contributions to the field of microscopy and microanalysis in the life sciences of a postdoctoral fellow of not more than 6 years' standing (since doctoral graduation).

The deadline to submit nominations for all awards is December 15, 2011. For more information, or to submit a nomination, visit <http://www.microscopy.org/awards/past> or call (703) 234-4137.

Calendar of Events:

January 9–13, 2012

Scanning Electron Microscopy Course

Sponsor: Hooke College of Applied Sciences

Location: Westmont, IL

<http://www.hookecollege.com>

January 17–20, 2012

Advanced Microscopy and Digital Imaging Workshop

Sponsor: University of California, Santa Barbara

Location: Santa Barbara, CA

https://www.lifesci.ucsb.edu/mcdb/events/imaging_workshop/purpose/index.php

March 18–20, 2012

The Histochemical Society Short Course Immunohistochemistry & Microscopy

Sponsor: The Histochemical Society

Location: Woods Hole, Massachusetts

<http://immunohistochem.com>

March 21–23, 2012

New Trends in Immunohistochemistry and Microscopy Meeting Theme: Bridging the Gap Between Light and Electron Microscopies

Sponsor: The Histochemical Society

Location: Woods Hole, Massachusetts

<http://www.histochemistry2012.org>

April 5–7, 2012

Quantifying immunogold label on EM thin sections

Sponsor: House Research Institute

Location: Los Angeles, CA

<http://immunogold.houserresearch.org>

April 23–27, 2012

SPIE, Defense Security, and Sensing

Sponsor: SPIE Baltimore Convention Center

Baltimore, Maryland, USA

<http://SPIE.org>

June 3–15, 2012

Lehigh University Microscopy School

Sponsor: Lehigh University

Location: Bethlehem, PA

<http://www.lehigh.edu/microscopy>

July 29, 2012 – August 02, 2012

Microscopy & Microanalysis 2012

Sponsor: MSA, MAS, IMS

Location: Convention Center, Phoenix, AZ United States

<http://microscopy.org/events/events.cfm>

August 4–8, 2013

Microscopy & Microanalysis 2013

Location: Convention Center, Indianapolis, IN United States

<http://microscopy.org/events/events.cfm>

August 3–7, 2014

Microscopy & Microanalysis 2014

Location: Convention Center, Hartford, CT United States

<http://microscopy.org/events/events.cfm>

August 3–7, 2015

Microscopy & Microanalysis 2015

Location: Convention Center, Portland, OR United States

<http://microscopy.org/events/events.cfm>