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Michael Mallamaci, Editor

Letter from the President

Greetings Fellow Microscopists/Microanalysts,
Colleagues, and Student Members of MSA,

This year seems to be flying past at break neck speed. By the time many of you read this newsletter it will be only a few weeks before our annual meeting. I almost hesitate to think of how fast the rest of the year will pass, and feel that I best not blink or I will miss something. Nevertheless, let me slow down and take a moment to give you a few updates about MSA and the first half of 2011.

First, the society continues to grow at a modest but steady pace, up by 10% over a year ago. I am particularly pleased to see our student membership correspondingly increase and as of last week students made up ~ 9% of the society total membership. Paper submission and pre-registration at our annual meeting are keeping pace with the track records of the Chicago and Portland meetings, our two largest meetings of the last 20 years. By my count there will be nearly 1200 presentations of all types during the course of M&M week. Student interest and participation at M&M also appears very high, this I can attest to personally having read all 176 student applications for bursary/scholarships! To further encourage students' attendance at M&M, the Society has increased the number and amounts of scholarships and awards to the meeting. We have also very importantly taken an aggressive step, led by our Past President Dave Piston, and have reduced the registration fees for all full time students to \$50.

At the same time we are also recognizing the long term needs of our regular members, and have just started a new Continuing Education Units in Microscopy (CEMU) program which is being led by our Education Committee. Together with our popular short courses and the in-week workshops these offerings are becoming an important part of MSA's role in the community.

You will also notice some mild tweaking of the annual program this year. Leading off the week is the Pre-meeting Congress organized by the Aberration Corrected Electron Microscopy FIG. The rejuvenated Opening Plenary session returns, together with major society award presentations. Our Program Committee has organized symposia topics which cover the wide ranging interests of our membership and this year include a number of "self-organized" symposia, a trend that I expect will continue into the future. New for 2011 will be poster sessions every day of the week (including Thursday), please keep an eye on the program schedule as timing of these sessions will not all be in the afternoon. There will also be daily "best student poster" awards given out at the close of each day's poster session, so stay for the discussion and refreshments and make sure you don't leave early.

Last but equally important are our scholarly publications. *Microscopy & Microanalysis*, our peer-reviewed journal continues to be the top ranked publication in the field, while our magazine *Microscopy Today*, published by Scientists for Scientists, leads the way in timely and innovative publication. You should expect to hear some very important updates and announcements concerning the Journal at M&M 2011.

I'm looking forward to catching up with many you at M&M2011 and to get myself updated on all the new work you have collectively accomplished. See you in Nashville!

Cheers,
Nestor J. Zaluzec
2011 MSA President





M&M Annual Golf Outing and Tour Registration Available to All Attendees, Early Registration Encouraged

The Annual M&M 2011 Annual Golf Outing will be held at the Hermitage Generals Retreat on Sunday, August 7th. Tee time is 9:00 AM, and the fee of \$100.00 includes greens fees, range balls, a golf cart, lunch and transportation to and from the course. Rental clubs are available for an additional \$35.00. For those of you who do not know, the Hermitage Generals Retreat was home to the LPGA Sarah Lee Classic for more than ten years. Pre-registration must be completed on or before Friday, July 29th.

An afternoon of golf is always a plus. But there is so much more to do in Nashville. Nashville is a fabulous place to visit! From family-friendly attractions, to late-night honky-tonks with live music, historical and celebrity tours, wonderful restaurants, shopping and nightlife, Nashville truly has something for everyone. The M&M 2011 Local Host Committee has put together a list of several great activities for you to participate in while you are in town for the meeting. The Country Music Hall of Fame, mobile tours and cruises, a visit to the city's art and history museums, a special evening at the Grand Ole Opry, and a special tour of Belle Meade Plantation are just a few highlights. Visit <http://www.microscopy.org/MandM/2011/tours.cfm> for all the details and click on the Local Host Committee's "best bets" for spending your spare time during your visit to "Music City".



M&M Going "Green", Offering Session Materials Online

All organizations are attempting to go "green" these days, and MSA is no exception. For 2011, M&M attendees will be able to download selected session materials from the web. This content will be made available by the authors themselves and will be available to paid attendees for a short time prior to the start of the M&M, as well as during and up to a week following the conclusion of the meeting. Comments regarding this service are welcome!

Microscopy CEMUs to be Offered at M&M 2011

MSA is proud to offer a new educational benefit to members, called Continuing Microscopy Education Units (CEMUs). These credits will be offered for the first time at this year's M&M Annual Meeting in Nashville, TN. Our goal is to provide CEMU opportunities at every annual meeting going forward. The cost to earn CEMUs will be \$10.00 for members (including students) and \$50.00 for non-members (price subject to change at future meetings). Participation in the CEMU program is voluntary.

For every 4 hours of course content, you will receive 1 CEMU Unit. The following courses will offer CEMUs at the 2011 M&M:

- ▶ Intensive In-Meeting Workshops
- ▶ Short Courses
- ▶ Tutorials
- ▶ Technologists Forum, either platform or special topics

In order to earn CEMUs, you must register for specific M&M courses and indicate your desire to earn CEMUs. The registration fee must also be submitted. Registration for CEMU's is done using the on-line Meeting Registration form, or can be done on-site in Nashville at the conference registration desk. Attendance at each course is required for those who wish to earn CEMUs. Certificates stating the number of credits earned will be provided to those attendees participating in the program following the meeting. Any units earned may be carried over to the following year, as long as you remain a MSA member.

M&M 2011 Technical Highlights

Program chair David Giovannucci and the entire Executive Program Committee have assembled an excellent scientific program for this year's meeting, featuring Plenary Special Lectures by Stefan Hell on "Nanoscopy with Focused Light" and Gene Ice on "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". The evolution of traditional light microscopy beyond the diffraction limit to Super Resolution Microscopy is highlighted in the Biological Sciences Symposia. The Physical Sciences Symposia feature a tribute to the pioneering work of Albert Crewe in the development of the STEM, which has enabled modern day single-atom imaging and spectroscopy research. The Instrumentation & Techniques Symposia include a session dedicated to Raimond Castaing, who built the first electron microprobe with a functioning wavelength dispersive x-ray spectrometer, and is considered the "father" of electron beam microanalysis.

MSA Announces Major Award Winners for 2011

We are pleased to announce the recipients of MSA's Major Awards:

- ◆ Distinguished Scientist in the Physical Sciences - **Prof. Dr. Hannes Lichte**
- ◆ Distinguished Scientist in the Biological Sciences - **Prof. Ueli Aebi**
- ◆ Burton Medal - **Dr. Radostin Danev**
- ◆ Hildegard Crowley Outstanding Technologist in the Biological Sciences - **Robert Grassucci**
- ◆ Morton Maser Distinguished Service Award - **Dr. Janet Woodward.**

Congratulations to our winners. All of these individuals will be honored publicly at M&M 2011 in Nashville, TN.

MSA Member David Mastronarde Awarded Distinguished Ernst Ruska Prize

Professor David Mastronarde, Cell Biologist from Boulder, Colorado (USA) and an MSA member, and Dr. Johan Verbeeck, Physicist from Antwerp (Belgium), will receive the 2011 Ernst Ruska Prize of the German Society for Electron Microscopy). Both scientists are being recognized for their achievements in the field of Electron Microscopy. The Prize will be awarded during the Microscopy Conference in Kiel, Germany, on August 31st 2011, by the President of the German Society Prof. Dr. Reinhard Rachel, from the University of Regensburg. More information is available in the News section of the MSA web site.

News

2011 Class of MSA Fellows Announced, Nominations now Open for 2012

Thirteen distinguished colleagues from the world of microscopy have just been awarded the designation of MSA Fellow and will be presented with their Fellowship certificates at the upcoming M&M meeting. In alphabetical order: Phil Batson, Pat Calarco, Peter Crozier, Alwyn Eades, Brendan Griffin, Bill Gunning, Jay Jerome, Richard Leapman, Charles Lyman, Michael O'Keefe, George Perry, Robert Simmons and Janet Woodward. Congratulations to all new MSA Fellows!

MSA is now accepting nominations for the MSA Fellows, Class of 2012. The deadline is September 30, 2011. "MSA Fellow" designation is intended to recognize senior distinguished members of the Society who have made significant contributions to the advancement of the science and practice of microscopy imaging, analysis and diffraction techniques. Contributions can include, for example, technique development or applications, extensive service to the microscopy profession (e.g., education, outreach) or distinguished service to the Society. A minimum of ten years MSA membership is required, except in very special circumstances, and no self-nominations will be accepted. *Nomination details can be found at <http://www.microscopy.org/awards/fellows.cfm>*

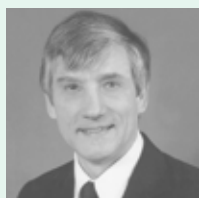
Visit the New Facilities Operations Management FIG Web Page

The new page has just been launched and should prove useful for all FOM FIG members and interested MSA members/non-members. *Visitors may go to the site directly by typing http://www.microscopy.org/communities/fom_fig.cfm into their browser.*

Deadline for Next CEMT Certification Exam is Fast Approaching

The application deadline for certification cycle number 66 is coming up fast. Applicants must submit their forms and fees on or before Thursday, September 8, 2011. All correspondence is to be sent to the MSA Headquarters office in Reston, VA. *More information is available on the web site at <http://www.microscopy.org/education/programs.cfm> or by calling 703.234.4115*

2011 MSA Fellows



Phil Batson



Pat Calarco



Peter Crozier



Alwyn Eades



Brendan Griffin



Bill Gunning



Jay Jerome



Richard Leapman



Charles Lyman



Michael O'Keefe



George Perry



Robert Simmons



Janet Woodward

MSA Web Site “Call for Images”

MSA is seeking additional images to use as representative samples on the MSA web site. Images submitted to MSA will be added to the expanding Image Gallery located at www.microscopy.org/resources/image_gallery.cfm. Along with the images, we request the full name of the image owner, and a title or description of the image. High resolution TIFF's or RAW DATA are preferred. The original author will retain the right to use the image for personal or business use.

Any questions may be directed to pdoherty@microscopy.org

M&M Best Paper Awards for 2010 Announced

The *Microscopy and Microanalysis* Journal has announced its Best Papers for 2010 Volume XVI. They are as follows:

Best Instrumentation, Protocol or Software Development Paper: *Colloidal Palladium Particles of Different Shapes for Electron Microscopy Labeling*

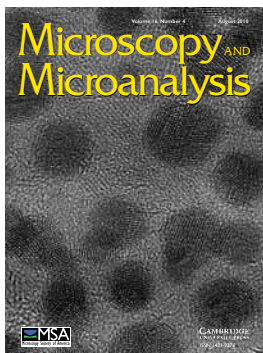
Daryl A. Meyer, Julie A. Oliver, and Ralph M. Albrecht
Microscopy and Microanalysis, Volume 16, Issue 01, February 2010, pp 33-42

Best Biological Application Paper: *Neural Differentiation of Human Embryonic Stem Cells at the Ultrastructural Level*
Jennifer L. Mumaw, Dave Machacek, John P. Shields, Mahesh C. Dodla, Sujoy K. Dhara, and Steve L. Stice
Microscopy and Microanalysis, Volume 16, Issue 01, February 2010, pp 80-90

Best Materials Application Paper: *Behavior of Au Species in Au/Fe₂O₃ Catalysts Characterized by Novel In Situ Heating Techniques and Aberration-Corrected STEM Imaging*
Lawrence F. Allard, Maria Flytzani-Stephanopoulos, and Steven H. Overbury

Microscopy and Microanalysis, Volume 16, Issue 04, August 2010, pp 375-385

Congratulations to all of our award winners!



Calendar of Events:

Microscopy & Microanalysis 2011
August 7-11, 2011
Location: Nashville, TN USA
<http://www.microscopy.org/MandM/2011>

Microscopy Conference MC 2011
August 28 - September 2, 2011
Location: Kiel, Germany
<http://www.mc2011.de>

10th Multinational Congress on Microscopy (MCM 2011)
September 4-9, 2011
Location: Urbino, Italy

21st International Congress on X-ray Optics and Microanalysis (ICXOM21)
September 5-8, 2011
Location: Campinas, Brazil

EMAG 2011 (Electron Microscopy and Analysis Group)
September 6-9, 2011
Location: University of Birmingham, UK
<http://www.emag-iop.org>

37th Annual Symposium / Convention, National Society for Histotechnology
September 16-21, 2011
Location: Cincinnati, OH
<http://www.nsh.org>

FEMMS 2011
September 18-23, 2011
Location: Sonoma County, CA
<http://www.femms2011.llnl.gov>

CIASEM 2011
September 25-30, 2011
Location: Merida, Mexico
<http://www.ameni.org/ciasem2011>

Neuroscience 2011
November 12-16, 2011
Location: Washington, DC
<http://www.sfn.org>

Microscopy & Microanalysis 2012
July 29-August 2, 2012
Location: Phoenix, AZ USA

Microscopy & Microanalysis 2013
August 4-8, 2013
Location: Indianapolis, IN USA