We are pleased to continue a joint symposium between the North Carolina Section of the Materials Research Society, Carolinas Central Chapter of ASM International, Mid-Atlantic Chapter of American Vacuum Society with the addition of the Appalachian Regional Microscopy Society. The meeting is expected to draw over 100 participants, both locally and from the surrounding region. Topics in materials science, processing, characterization, and biomaterials will be presented by both invited and selected student contributors.

The ASM/MRS/AVS-NC program will feature morning and afternoon oral sessions. A student poster session will also be held in the afternoon. Registration and poster setup is from 8:15 to 9:00 AM. The symposium is scheduled to be completed by 5:00 PM.

Invited Speakers and Topics

Sarah Miller (Duke) – “Emerging Diseases and Microscopy”
David Cullen (ORNL) – “Large Area Silicon Drift Detectors for Catalysis Research”
Anne Marie Valente-Feliciano (Jefferson Laboratory) – Superconductors
David Gloecker (Isoflux Inc.) – Inverted Magnetron

Student Poster / Oral Sessions

A student poster session will be held featuring a best of competition. Three student contributed papers will be selected for 15 min oral presentation. Cash prizes will be awarded for the 1st and 2nd best student oral presentation and for top 3 poster presentations. Additional poster prizes will also be awarded. Poster size up to 48 wide in by 36 tall in. Please send electronic abstracts to Fred Stevie (fred_stevie@ncsu.edu) and indicate if poster or talk is desired.

Abstract deadline Nov. 7th. First 28 posters submitted will be judged. Later submissions can be displayed but not judged.

Over $2.5k in cash awarded!
**SEM/EBIC Workshop**  
11.14.2013 9am-1pm  
EAG, 628 Hutton St., Raleigh, NC 27606  
Instructor: Jonathan Poplawsy, ORNL  
Contact: leonarddn@ornl.gov  
There will be a lecture "Electron Beam Induced Current (EBIC) Fundamentals & Applications" followed by a demonstration of SEM/EBIC of a LED. (W filament SEM equipped with a Gatan SmartEBIC system operating between 5-25KV (3hrs)

**SEM-CL Workshop**  
11.14.2013 1pm-5pm  
EAG, 628 Hutton St., Raleigh, NC 27606  
Instructor: Jonathan Poplawsk, ORNL  
Contact: leonarddn@ornl.gov  
There will be a lecture on "Cathodoluminescence (CL) of Semiconductors in the Electron Microscope" followed by a demonstration of SEM/CL of GaN. (W filament SEM equipped with a Gatan MonoCL4 system) (4hrs)

**Cryo Ultramicrotomy**  
11.14.2013 1pm-5pm  
AIF, Room 324, 2410 Campus Shore Dr., Raleigh, NC 27695  
(Class Size: 10max)  
Instructor: Mark Kukucka, Leica Microsystems  
Contact: rgarcia@ncsu.edu  
A demonstration of Cryo Ultramicrotomy on a Leica UC7 system showing the capabilities and sample preparation. (4hrs)

**TEM Sample Preparation**  
11.14.2013 9am-5pm  
Centennial Campus, EB1, Raleigh, NC 27695  
(Class Size: 12max  Cost: TBD)  
Instructor: James LeBeau, NCSU  
Contact: jmlebeau@ncsu.edu  
There will be a brief lecture describing the procedures and key concepts of the technique followed by a hands on lab that will allow users to prepare samples while under supervision. The process involves using the Allied Multiprep for sample preparation. Due to the hands on lab section, class size is limited.

Over $2,500 in prizes awarded!  
Only the first 28 posters registered will qualify for judging. Please see meeting website or other flyer for poster details and requirements. Posters must all be registered through the online registration at  
http://www.aif.ncsu.edu/mrs_asm_avs_arems/  

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<tr>
<th>Award</th>
<th>Description</th>
<th>Prize</th>
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<tr>
<td>AReMS Award - Biological</td>
<td>AReM award for best poster utilizing a microscopy technique in biology.</td>
<td>$250</td>
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<tr>
<td>AReMS – Physical Sciences</td>
<td>AReM award for best poster utilizing a microscopy technique in physical sciences.</td>
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<td>Speaker 1 Place</td>
<td>MRS speaker Award</td>
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<td>Speaker 2 Place</td>
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<tr>
<td>Poster 1 Place</td>
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<td>Poster 2 Place</td>
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<tr>
<td>Poster 3 Place</td>
<td>MRS poster Award</td>
<td>$300</td>
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| Hans Stadelmaier Award       | ASM Hans Stadelmaier award for best poster demonstrating Materials Characterization Techniques.  
*(Can not be combined with other Awards)* | $200   |

*In addition, all students registered for the meeting can be eligible to win a $100 Visa gift card. Three $100 Visa gift cards will be raffled off at the meeting. Please see the registration desk at the meeting for details. (Must be a student and present at the drawing to win)*

**Contacts**

Fred Stevie NCSU  
fred_stevie@ncsu.edu  
(919) 515-7037

Dr. John Lannon, Jr RTI  
lannon@rti.org  
(919) 248-1872

Dr. Chris Bower Semprius  
chris.bower@semprius.com  
(919) 433-9986

Dr. Carrie Donley UNC-CH  
cdonley@email.unc.edu  
(919) 841-2859

Roberto Garcia NCSU  
gracia@ncsu.edu  
(919) 515-8628

Dr. Jesse Jur NCSU  
jsjur@ncsu.edu  
(919) 515-1676

Dr. Shanti Iyer NC A&T  
iyer@ncst.edu

Dr. Charles Parker Duke  
cbparker@duke.edu  
(919) 660-5592

Dr. Michael Rigsbee NCSU  
mike_rigsbee@ncsu.edu  
(919) 515-3568

Joe Becker Kurt Lesker  
joeb@lesker.com  
(919) 562-9967

Donovan Leonard ORNL  
leonarddn@ornl.gov