CSMMS 2012 Fall Meeting: “3D Seeing Inside the Box”
Havner Center, MS&T Campus • Rolla, MO 65401
Monday, October 15, 2012

9:00 - 10:00   REGISTRATION AND PASTRIES

10:00 - 10:15  OPENING REMARKS: PAUL CARPENTER, PRESIDENT CSMMS

10:15 - 10:20  WELCOME: DR. SCOTT MILLER

10:20 – 10:40  STEVE NAGY, GATAN: 3D VIEW

10:45 - 11:00  STEVE SEDDIO, WASH U: EPMA OF APOLLO 12 GRANITIC SAMPLES: REMEMBERING THE 3RD DIMENSION

11:00-11:15   VENDORS/BREAK

11:15 – 11:35  MARK KELSY, BRUKER: MICRO CT

11:40-11:55   DANIEL P. MILLER, MS&T STUDENT: PHOSPHORYLATION OF IQG1 BY CYCLIN DEPENDENT KINASE (CDC28) TEMPORALLY REGULATES ACTIN RING FORMATION

11:55 – 1:15   LUNCH “A TASTE OF THE HILL” ITALIAN BUFFET - SPONSORED BY OXFORD, THANKS BILL CHAUVIN!

1:15 - 2:10    KEY NOTE SPEAKER - KENT MCDONALD, UC BERKLEY: "BIOLOGICAL EM IN THE 21ST CENTURY: CRYOTECHNIQUES, CORRELATIVE LM/EM, AND CELLULAR ELECTRON TOMOGRAPHY"

2:10-2:25     JEFF GSCHWEND, HITACHI: BROAD ION BEAM SAMPLE PREPARATION

2:25-2:45     HYUN PARK, TOUSIMIS: BIOLOGICAL SAMPLE PREP

2:45-3:00     LAURA BARLETT, MS&T STUDENT: CHARACTERIZATION OF HIGH STRENGTH AND LIGHTWEIGHT STEELS USING 3-D ATOM PROBE TOMOGRAPHY

3:00-3:15     VENDORS/BREAK SPONSORED BY GATAN, THANKS STEVE NAGY!

3:15-3:30     TOMMI A. WHITE, ASSOCIATE DIRECTOR, ELECTRON MICROSCOPY CORE FACILITY UM: CRYO-ELECTRON TOMOGRAPHY OF HIV

3:30-3:45     ERIC COATS, UM STUDENT: UTILIZATION OF ELECTRON MICROSCOPY TO CHARACTERIZE CELL DEATH BY YERSINIA PESTIS IN RAW 264.7 MACROPHAGES"

3:45-4:05     PAUL CARPENTER, WASHINGTON UNIVERSITY: AN INTRODUCTION TO THIN-FILM ANALYSIS BY EPMA

4:05          MEETING ADJOURNED: PAUL CARPENTER, PRESIDENT CSMMS

4:05-5:00     CSMMS BUSINESS MEETING
Directions to Missouri S&T

From I-44 West (From St. Louis)
Take the third Rolla exit #185. At the top of the ramp move through the turnabout to University Drive (goes across the bridge) and proceed to the stoplight. At the stoplight, turn right onto Hwy 63/Bishop Ave. and merge into the left lane. At the next stoplight, turn left onto 10th Street. Go approximately two city blocks. On the left you will see Castleman Hall. Turn left onto Main Street (next to Castleman Hall), crossing over 11th Street. The visitor’s parking lot will be straight ahead.

From I-44 East (From Springfield)
Take the second Rolla exit #185. At the top of the ramp, turn right onto University Drive and proceed to the stoplight. At the stoplight, turn right onto Hwy 63/Bishop Ave. and merge into the left lane. At the next stoplight, turn left onto 10th Street. Go approximately two city blocks. On the left you will see Castleman Hall. Turn left onto Main Street (next to Castleman Hall). The visitor’s parking lot is straight ahead.

North Bound on Highway 63
Stay on Highway 63 going north into Rolla. Turn right onto 10th Street. (The Multi-Purpose Building is on the Southwest corner of 63 and 10th.) Proceed approximately two city blocks to Castleman Hall. Turn left onto Main Street. The visitor’s parking lot is straight ahead.

South Bound on Highway 63
Stay on Highway 63 going south into Rolla. Turn left onto 10th Street. (The Multi-Purpose Building is on the corner of 63 and 10th.) Proceed approximately two city blocks to Castleman Hall. Turn left onto Main Street. The visitor’s parking lot is straight ahead.

From Highway 72
Take Highway 72 to the intersection of Hwy 72 and Hwy 63. Turn right. Stay on Highway 63 going North through Rolla. Turn right onto 10th Street. (The Multi-Purpose Building is on the corner of 63 and 10th.) Proceed approximately two city blocks to Castleman Hall. Turn left onto Main Street. The visitor’s parking lot is straight ahead.

From Highway 63 to the Visitor’s Parking Lot
Stay on Highway 63 going south into Rolla. Turn left onto 10th Street. (The Multi-Purpose Building is on the corner of 63 and 10th.) Proceed approximately two city blocks to Castleman Hall. Turn left onto Main Street. The visitor’s parking lot is straight ahead.

Directions to Havner
Please park in the H Lot, denoted by the green circle on the map, cross University Drive to the north and proceed under the tunnel to the east. Exit the tunnel and Havner center will be on your right, red circle on the map. Signs in Havner Center will direct you to the meeting rooms.
Registration
Please register at the CSMMS registration table. There will be coffee and pastries available. At the time of registration please pick up your lunch ticket if you have pre-registered. Also please provide your car license at this time as well for parking.
Central States Microscopy and Microanalysis Society
Fall 2012 Meeting
Monday October 15, 2012
Meeting held at Missouri University of Science Technology, Rolla, MO

Topic is “3D, Seeing Inside the Box”

Other Topics of Interest for CSMMS Fall 2012 Meeting

- Quantitative Microanalysis
- Electron-probe microanalysis, WDS and EDS spectrometry, analysis tools and simulations
- Compositional imaging and mapping using electron, ions, and x-rays
- SEM and electron-backscatter diffraction analysis
- TEM sample prep and applications
- Confocal Microscopy
- Raman Spectrometry
- High resolution surface analysis
- Sample preparation
- Advances in microscopy
- Applications of the nanosims
- Application in life sciences, materials science, and geology

Opportunities for students, professional interactions, and meeting scientist and technicians in the regional area. Several vendors will be presenting information on the latest and greatest instruments. We will use this meeting to identify potential students for support via the Microbeam Analysis Society and Microscopy Society of America distinguished scholar award programs for the annual Microscopy and Microanalysis meeting to be held in Indianapolis August 2013.

This first announcement is to aid in the assembling of the program and participation of students, scientists, and vendors. There will be prizes given to the top student presentations as well as prizes for an image competition. **All are encouraged to submit a presentation/poster.** Lunch will be provided by Oxford Instruments.

Please reply to Paul Carpenter, CSMMS president at paulc@levee.Wustl.edu, 314-935-5471, or Clarissa Wisner, CSMMS secretary/treasurer at cvierret@mst.edu, 573-341-4393 or Tommi White, CSMMS president elect candidate at whiteto@missouri.edu.