2013 Oklahoma Microscopy Society Spring Workshop

Multitasking in Multidimensions: 3D imaging and Analysis

Keynote: “Manipulation and nanotribology in dry and liquid environments and nanomechanics of nano-objects using an AFM”, Dave Maharaj, The Ohio State University

Atomic Force Microscope exhibition: Bruker will be exhibiting an AFM in the atrium. Attendees should bring samples to test!

Friday, April 12th, 9am - 4pm

Kid’s night: Thursday, April 11, 5:00 pm - 6:30 pm, George Lynn Cross Hall rm.157

Also featuring: talks on scanning probe microscopy and confocal microscopy, exhibitor displays, and afternoon tours of major microscopy facilities on campus

University of Oklahoma, Norman, OK

Stephenson Research and Technology Center

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## 2013 Oklahoma Microscopy Society Spring Workshop

### Multitasking in Multidimensions: 3D imaging and Analysis

#### University of Oklahoma, Norman, OK
Stephenson Research and Technology Center (SRTC), [http://srtc.ou.edu/](http://srtc.ou.edu/)
Kid’s night: Thursday, April 11th, 5:00 p.m. - 6:30 p.m., George Lynn Cross Hall room 157

### Schedule of events, Friday April 12th, 2013

<table>
<thead>
<tr>
<th>time</th>
<th>description</th>
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<tbody>
<tr>
<td>9:00am - 9:45</td>
<td>Continental breakfast; exhibitor opportunity (SRTC atrium)</td>
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<tr>
<td>9:45-10:00</td>
<td>Welcome, Dr. Andrew Elwood Madden (SRTC atrium)</td>
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</tbody>
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| 10:00-11:00 | **Keynote lecture:**  
|            | Manipulation and nanotribology in dry and liquid environments and nanomechanics of nano-objects using an AFM  
|            | Dave Maharaj, The Ohio State University                                      |
| 11:00 -11:15 | break                                                                       |
| 11:15 - 12:00pm | Quantitative nanomechanical mapping with AFM                               |
| 12:00 -12:15 | OMS meeting                                                                 |
| 12:15-1:15  | lunch; exhibitor opportunity (SRTC atrium)                                  |
| 1:15-1:30   | **Pitfalls of training in scanning probe microscopy**                        |
|            | Wesley Tennyson, OU School of Chemical, Biological, and Materials Engineering |
| 1:30-1:45   | **Exploiting Atomic Force Microscope for cell biology**                     |
|            | Xin Li, OU Department of Chemistry and Biochemistry                         |
| 1:45-2:00   | **AFM studies of simulated faults: towards understanding earthquakes**      |
|            | Xiaofeng Chen, OU School of Geology & Geophysics                            |
| 2:00-2:30   | **3-Dimensional remodeling of Sertoli cell tight junctions**               |
|            | Dr. Benjamin Smith, OU Samuel Roberts Noble Microscopy Laboratory           |
| 2:30-2:45   | **Assessing the Subcellular Localization of Nuclear Transcription Factor Y Subunits in Arabidopsis Roots** |
|            | Daniel Jones, OU Department of Microbiology and Plant Biology               |
| 2:45        | Exhibitor viewing, shuttles to campus microscopy facilities in SRTC parking lot |
| 4:00        | adjourn                                                                     |