



# 59<sup>th</sup> Annual May Conference

## John Carroll University, Dolan Science Center, May 20, 2015



Cleveland Section of the Society for Applied Spectroscopy (SAS)



Microscopy Society of Northeastern Ohio (MSNO)



Cleveland Section of the American Chemical Society Analytical Topics Group



American Vacuum Society

### Sessions and Confirmed Invited Speakers

#### Joint Sessions:

**Keynote: William Landis** (Univ. of Akron): Mineralization of the vertebrate skeleton and teeth: A possible role for the small, non-collagenous protein, osteocalcin, deduced from immunocytochemistry

Poster Session

ACS Morley Lecture

ACS/SAS Yeager Award

#### Topical Sessions:

#### Advanced microscopy/spectroscopy studies of hard-matter materials

**Ruigang Wang** (Youngstown State Univ.): Applications of *In Situ* Environmental Transmission Electron Microscopy in Catalysis

#### Analytical forensics

#### AVS session

**Zhorro Nikolov** (Univ. of Akron): Applications of XPS in polymer and surface science.

#### Characterization of soft-matter materials

**Tomer Avidor-Reiss** (Univ. of Toledo): How Do Animals Inherit Their Microtubule Organization Centers?

#### Local social issues and microscopy/spectroscopy

**Chris Woolverton** (Kent State Univ.): Controlling Infectious Disease at the Source

**Chris Winslow** (The Ohio State Univ.) Ecological and Economic Importance of Lake Erie: the Impacts of Harmful Algal Blooms and Current Research Efforts

#### Microscopy/spectroscopy on energy issues

**Bjorn Lussem** (Kent State Univ.): Flexible Organic Transistors – Challenges and Prospects

**Jeremiah S. McNatt** (NASA): Microscopic analysis of space solar array degradation

#### Nanomaterials/Nanodevices

**Steven Chuang** (Univ. of Akron): Vibrational Spectroscopy of Adsorbed CO<sub>2</sub>

#### New technical developments in microscopy/spectroscopy

**Kai Sun** (Univ. of Michigan) Aberration-corrected electron microscopy and its applications in materials research

#### SEM on biological materials

**Sam Crish** (NEOMED) use of Serial Blockface Imaging to study Glaucoma

### Call for papers

#### Deadline

**Talks: 3/20/2015**

**Posters: 4/15/2015**

Please send your title and abstract (150-200 words) to [Min Gao](mailto:mgao@kent.edu) (mgao@kent.edu).

#### Awards

- Monetary awards for best student papers (3 talks/3 posters)
- MSNO awards: assist 2 MSNO student members (1 talk and 1 poster) to national meetings

### Sponsorship /Exhibitions

Please contact [Amir Avishai](mailto:axa189@case.edu) (axa189@case.edu) and [Rick Kus](mailto:rick.kus@denora.com) (rick.kus@denora.com)

#### For More information, Please

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