

SAS/MSNO/ACS/AVS

# 60<sup>th</sup> May Conference

## MSNO's 50<sup>th</sup> Anniversary

John Carroll University, May 18, 2016



Cleveland Section of the Society for Applied Spectroscopy (SAS)



Microscopy Society of Northeastern Ohio (MSNO)



Cleveland Section of the American Chemical Society (ACS) Analytical Topics Group



American Vacuum Society (AVS)



### Invited speakers

- **Dr. Rigoberto Advincula, Case Western Reserve University**  
*Electronanopatterning and Templating Conjugated Polymers with Conducting AFM*
- **Dr. Ali Dhinojwala, The University of Akron**  
*Raman and vibrational spectroscopy of soft matter materials*
- **Dr. Grahame Kidd, Cleveland Clinic**  
*Biological 3D Blockface Scanning EM: Some current and future applications*
- **Dr. Edgar Kooijman, Kent State University**  
*Interaction of amphipathic alpha-helix bundle proteins with lipid interfaces*
- **Colonel Robert J. Kraus, PhD, Air Force Office of Scientific Research, Arlington, VA**  
*Aim High, then Aim Higher--Basic Research for the US Air Force*
- **Dr. Jeffrey Lengyel, FEI, NY**  
*Recent Advances in Cryo-TEM; A New Era for Structural Biology*
- **Dr. Chunfei Li, Clarion University, Clarion, PA**  
*Application of Transmission Electron Microscopy in Crystal Structure Determination*
- **Dr. Ron Rubinovitz, Thermo Fisher Scientific, Lanham, MD**  
*Applications of FTIR and Raman Imaging.*
- **Dr. Adam Smith, The University of Akron**  
*Investigating membrane protein-protein interactions in live cells with time-resolved fluorescence microscopy*
- **Dr. Phoebe Stewart, Case Western Reserve University**  
*Cryo-electron microscopy and cryo-electron tomography of nanoparticles*
- **Dr. Shih-Wa Wang, PolyOne Corporation and Polymer Diagnostics**  
*Fatigue Performance of Fused Deposition Modeling (FDM) Style 3D Printed vs. Injection Molded Ultem® 9085*
- **Dr. Qi-Huo Wei, Kent State University**  
*Plasmonic Meta-surfaces as Photomasks for Photo-patterning Molecular Orientations in Liquid Crystals*
- **Dr. Jianguo Wen, Argonne National Labs, Lemont, IL**  
*Application of aberration-corrected TEM in advanced energy material*

### KEYNOTE SPEAKER

**Colonel Robert J. Kraus, PhD**  
Chief, Science and Engineering Division,  
Air Force Office of Scientific Research, Arlington, VA

Title: "*Aim High, then Aim Higher--Basic Research for the US Air Force*"

### TOPICS

- Microscopy/Spectroscopy
- Materials Science
- Analytical Chemistry
- Biology
- Renewable Energy/Sustainability
- Additive Manufacturing (3D printing)
- Vacuum/Surface Techniques
- Nanomaterials/Nanodevices

### PROGRAM

- 3 joint sessions
- 30 parallel session talks
- 30+ posters

### AWARDS

- Student Paper Awards
- MSNO Student Awards

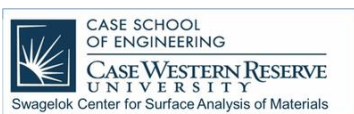
### WEBPAGE and UPDATES

<http://www.msneo.org/2016-may-meeting.html>

### CONTACT US

Send your questions to [MicroSocietyNEO@gmail.com](mailto:MicroSocietyNEO@gmail.com)  
or contact the organizers listed at the meeting webpage.

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