

The University of Pittsburgh and the Kenneth P. Dietrich School of Arts and Sciences Department of Chemistry present



# ADVENTURES IN ENHANCED SPECTROSCOPIES: Resonance Raman, Surface Enhanced Raman, and Twisted Chiro-Optical Spectroscopies

Celebrating 37 years of photonic explorations by Distinguished Professor Sanford Asher

May 11, 2017 ♦ 9am-6pm ♦ University of Pittsburgh ♦ Chevron Science Center  
219 Parkman Avenue ♦ Pittsburgh, PA 15260

9:10-9:50 a.m.



**Dr. Richard Van Duyne**, *Northwestern University*  
Surface and tip-Enhanced Raman Spectroscopy: from single molecule spectroscopy to angstrom-scale spatial resolution and femtosecond time resolution

9:50-10:30 a.m.



**Dr. Igor K. Lednev**, *University at Albany, SUNY*  
Amazing Fibrils: what Raman spectroscopy can tell about their structure and formation mechanism

10:45-11:25 a.m.



**Dr. Lawrence D. Ziegler**, *Boston University*  
Biomedical Applications of Surface Enhanced Raman Spectroscopy: diagnostics, metabolomics and forensics

11:25 a.m. - 12:05 p.m.



**Dr. Bhavya Sharma**, *University of Tennessee – Knoxville*  
Exciting Adventures with Excitation Profiles: from resonance Raman spectroscopy to surface enhanced Raman spectroscopy and beyond

1:30-2:10 p.m.



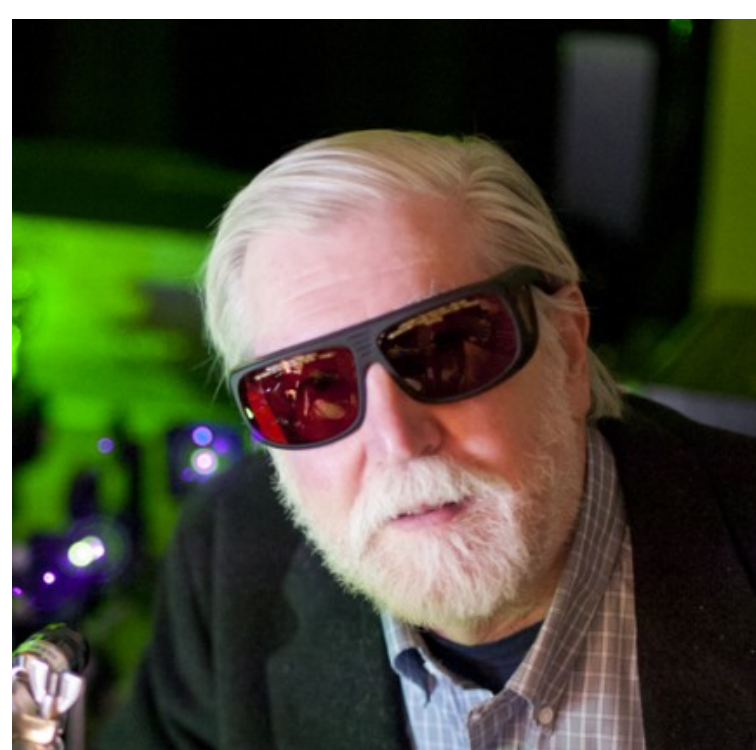
**Dr. Laurence A. Nafie**, *Syracuse University and BioTools Inc.*  
Enhanced Vibrational Optical Activity: twists and turns with help from Sandy

2:10-2:50 pm



**Dr. Rina K. Dukor**, *BioTools Inc.*  
Twenty Plus Year Adventure with Sandy - along the way of commercialization of disruptive products for structure elucidation

3:05-3:45 p.m.



**Dr. Paul Champion**, *Northeastern University*  
Raman Vibrational Coherence Spectroscopy and Kinetic Studies of Biomolecules

3:45-4:25 p.m.



**Dr. David H. Waldeck**, *University of Pittsburgh*  
Directing Charge Transfer in Nanoparticle Assemblies

Special Guest



**Dr. David M. Hercules**, *Vanderbilt University*

4:30-6:00 p.m.

## Poster Session

Ashe Lobby  
1<sup>st</sup> & 2<sup>nd</sup> floors

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