



Agenda: Thursday, June 1st, 2017

Note: Posters will be available all day

8:00-8:45 Registration / Sign in / Continental Breakfast and Coffee / Poster Set-up
8:45-9:00 Welcome by Purdue University and HORIBA Scientific

Day 1 - Session 1: Raman Spectroscopy in Life Sciences and Pharmaceuticals

9:00-9:35 Prof. Juergen Popp, Leibniz Institute of Photonic Technology (IPHT), Germany
Title: Clinical Raman Spectroscopy - Precise Diagnostics for Targeted Therapy

9:35-10:10 Prof. Wei Huang, Department of Engineering Science, University of Oxford, UK
Title: Application of Raman Micro-spectroscopy to Single Cell Biology

10:10-10:45 Coffee Break / Poster Session/ Live Demos

10:45-11:20 Prof. Lawrence D. Ziegler, Boston University
Title: Rapid Disease Diagnostics: Probing Metabolomics by SERS

11:20-11:55 Prof. Igor K. Lednev, Department of Chemistry, University at Albany, SUNY
Title: Raman Hyperspectroscopy for Forensic Purposes and Medical Diagnostics

11:55-12:30 Dr. Ravi Kalyanaraman, Global Analytical Technology, Bristol-Myers Squibb
Title: Applications of Drop Coat Deposition Confocal Raman (DCDCR) Spectroscopy in Biopharmaceuticals

12:30-13:45 Lunch / Poster Session

Day 1 - Session 2: Raman Spectroscopy on the Nanoscale

13:45-14:20 Prof. Richard P. Van Duyne, Northwestern University
Title: Single Molecule Spectroscopy and Nanoscale Chemical Imaging and with Surface and Tip-Enhanced Raman Spectroscopy

14:20-14:55 Prof. Volker Deckert, Leibniz Institute of Photonic Technology (IPHT), Germany
Title: 20 years of Plasmon-enhanced Near-field Spectroscopy and Still Complaining about Tips

14:55-15:30 Coffee Break / Poster Session/ Live Demos

15:30-16:05 Prof. Bin Ren, College of Chemistry and Chemical Engineering, Xiamen, China
Title: TERS for Solid/Liquid Interface and 2D Materials

16:05-16:40 Prof. Yong Chen, Department of Electrical & Computer Engineering, and Physics and Astronomy- Purdue University
Title: Raman Spectroscopy of Graphene-based Materials

18:30 Gala Dinner at the Purdue Memorial Union North Ballroom. Guest speaker will be: Dr. Kelsey Cook, from the NSF. Also attending is Professor Anant K. Ramdas.



Agenda: Friday, June 2nd, 2017

8:00-8:45 Continental Breakfast and Coffee

Day 2 - Session 1: Innovations in Raman Technologies - I

8:45-9:20 Prof. Marlan Scully, Institute for Quantum Science and Engineering, Texas A&M University
Title: The Connection Between Coherent Raman and Dicke Superradiance.

9:20-9:55 Prof. Eric Olaf Potma, Department of Chemistry, University of California, Irvine
Title: A Coherent Raman Look at Membranes and Cholesterol

9:55-10:30 Coffee Break / Poster Session/ Live Demos

10:30-11:05 Prof. Katsumasa Fujita, Department of Applied Physics, Osaka University, Japan
Title: Raman Microscopy for Molecular Imaging of Cells

11:05-11:40 Prof. Wei Min, Department of Chemistry, Columbia University
Title: Visualizing Cellular Metabolism by SRS Imaging of Vibrational Tags

11:40-12:15 Dr. Brian Marquardt, MarqMetrix, Inc.
Title: Developing Process Control for Bio and Chemical Reactions: Applications of Sampling, Sensing and Data Handling

12:30-14:00 BBQ Lunch / Group Photo

Day 2 - Session 2: Innovations in Raman Technologies - II

14:00-14:35 Prof. Dor Ben-Amotz, Physical Chemistry, Purdue University
Title: Hyperspectral Raman Imaging using Optimized Binary Compressive Detection

14:35-15:10 Prof. Ji-Xin Cheng, Biomedical Engineering and Chemistry, Purdue University
Title: Latest Advances in Coherent Raman Microscopy

15:10-15:45 Round Table Discussion: The Future of Raman Spectroscopy

15:45-16:00 Closing comments / Poster Award Ceremony

16:00 Demos / Lab Tour (Sign up required)