



# Society for Analytical Chemists OF PITTSBURGH



## SEPTEMBER MEETING

***Monday, September 14, 2009***  
**8:00 p.m.**

Duquesne University  
Laura Falk Hall

Dinner: City View Café (6<sup>th</sup> Floor)



**THOMAS P. CONRADS, PHD**

ASSOCIATE PROFESSOR  
DEPARTMENT OF PHARMACOLOGY & CHEMICAL BIOLOGY,  
BIOMEDICAL INFORMATICS AND MEDICINE  
UNIVERSITY OF PITTSBURGH SCHOOL OF MEDICINE

**“Application of High Resolution Mass Spectrometry  
for Cancer Biomarker Discovery from Tissue”**

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5:30 PM	Social Hour.....	Student Union – City View Café (6 <sup>th</sup> Floor)
6:30 PM	Dinner.....	Student Union – City View Café (6 <sup>th</sup> Floor)
7:30 PM	Student Affiliate Meeting .....	Mellon Hall – Room 410
7:40 PM	Business Meeting.....	Mellon Science Building – Laura Falk Hall
8:00 PM	Technical Meeting.....	Mellon Science Building – Laura Falk Hall

### **ABSTRACT:**

Developments in high resolution mass spectrometry (MS) and nano-flow chromatography have made possible high-throughput proteomic investigations of myriad clinically relevant samples in the expectation of identifying peptide or protein biomarkers for disease. Conventional protein biomarker discovery investigations are predominantly performed with samples such as serum or plasma. While serum or plasma samples may be more desirable from a clinical standpoint, tissue likely possesses a greater abundance of readily identifiable proteins directly reflective of disease. This lecture will highlight the application of laser capture microdissection and high resolution MS for conducting proteomic investigations of formalin-fixed paraffin-embedded archival tissue for cancer biomarker discovery and validation.

### **BIOGRAPHY:**

Associate Professor, Department of Pharmacology & Chemical Biology, Biomedical Informatics and Medicine, University of Pittsburgh School of Medicine  
UPCI Member, Lung and Thoracic Malignancies, Melanoma, Prostate and Urological Cancer Programs  
Co-Director, Cancer Biomarkers Facility and Mass Spectrometry Platform, University of Pittsburgh Cancer Institute  
Investigator, Magee-Womens Research Institute

Dr. Thomas P. Conrads is an associate professor of pharmacology, biomedical informatics and medicine at the University of Pittsburgh School of Medicine and co-directs the Cancer Biomarkers Facility and affiliated Mass Spectrometry Platform in the University of Pittsburgh Cancer Institute. He obtained his Ph.D. at the Ohio State University in biochemistry and received postdoctoral training at Pacific Northwest National Laboratory. His research program is focused on developing new technologies in chemistry and biology toward characterization of proteomic and metabolomic changes associated with clinically relevant questions in cancer biology. The goal of these efforts is toward enhanced cancer patient management through improved early detection, patient stratification, and monitoring for therapeutic efficacy, outcome and recurrence.

### **DINNER RESERVATIONS:**

Please email William Straub, Arrangements Co-Chair at [straub@pittcon.org](mailto:straub@pittcon.org), by Thursday, September 10, 2009 to make dinner reservations. Should you not have email, please call Bill at 412-372-8312. If you want to be placed on the permanent dinner list, let Bill know when you RSVP. The entrée for September is Chicken Milano. Dinner will cost \$8 (\$4 for students) and checks can be made out to the SACP. If you have any dietary restrictions, let Bill know when you leave a message.

### **PARKING:**

Duquesne University Parking Garage entrance is on Forbes Avenue. Upon entering the garage, you will need to get a parking ticket and drive to upper floors. Bring your parking ticket to the dinner or meeting for a validation sticker. Contact Dr. Mitch Johnson at Duquesne University if any difficulties arise.

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