



# Spectroscopy Society of Pittsburgh February Meeting

Duquesne University – Mellon Hall of Science (Laura Falk Hall)

**Wednesday – April 22, 2009**

Technology Forum Speaker's Presentation **5:30PM**

Social Hour **6:00PM**

Dinner in the City View Café (6th Floor) **6:30PM**

Business Meeting **8:00PM**

Technical Program Speaker's Presentation **8:15PM**

Deadline for Dinner Reservations **4/17/09**

Carolyn Benga [crbssp@yahoo.com](mailto:crbssp@yahoo.com) or (412) 487-0915



## **TECHNOLOGY FORUM - 5:30 PM**

Bonnie Sanford- Meadowcroft Rock Shelter

### **"Meadowcroft: 19,000 Years in the Making"**

This Power Point Presentation explores Pennsylvania's newest National Historic Landmark, the Meadowcroft Rockshelter. See how archaeologists uncovered this 16,000-year-old campsite and found the earliest evidence of people in North America. Also stroll through Meadowcroft's 19th century village with its charming covered bridge, one-room school, and working blacksmith shop.

### **Bio**

Bonnie Reese Sanford is the Curator and Internship

Coordinator at Meadowcroft Rockshelter and Museum of Rural Life in Avella, Pennsylvania. Her responsibilities there include co-ordination and supervision of all College and University internship projects. She works closely with students to design and implement graduate and undergraduate internships including research and museum studies projects. Bonnie assists with other museum educational programs and serves as the special educational project and workshop director. In addition to her involvement in education at Meadowcroft, Bonnie is responsible for cataloging all museum artifacts. This includes preservation, organization and documentation of the artifacts and archives in the museum database system. Bonnie also conducts exhibit research and designs all Meadowcroft Rockshelter museum exhibitions.

Sanford is also an adjunct professor at Jefferson Community College in Steubenville, Ohio where she teaches a multitude of courses including all Anthropology and Communication courses. Bonnie also acts as a Professional Museum Consultant for the Pennsylvania Federation of Museums and Historic Organizations. She teaches small museum sites how to organize and preserve their collections by going to the site and working with the staff. She also presents workshops on collection management.

After working as a Registered Nurse Instructor for the ICM School of Business, Bonnie studied Anthropology at California University of Pennsylvania. She earned her Master of Arts with a concentration in Museum Studies from Duquesne University where she is currently perusing a Ph.D. in Communication and Rhetorical Studies.

## **TECHNICAL PROGRAM - 8:15PM**

Dr. Gabor Somorjai- University of California at Berkley

### **"Molecular Studies of Surfaces Under Reaction Conditions; Sum Frequency Generation Vibrational Spectroscopy, Scanning Tunneling Microscopy and Ambient Pressure X-ray Photoelectron Spectroscopy"**

Professor Gabor A. Somorjai will speak on the molecular studies of surfaces under reaction conditions. Topics include sum frequency generation vibrational spectroscopy, scanning tunneling microscopy and ambient pressure x-ray photoelectron spectroscopy.



**Bio**

Gabor A. Somorjai was born in Budapest, Hungary, on May 4, 1935. He was a fourth year student of Chemical Engineering at the Technical University in Budapest in 1956 at the outbreak of the Hungarian Revolution. He left Hungary and emigrated to the United States, where he received his Ph.D. degree in Chemistry from the University of California, Berkeley in 1960. He became a U.S. citizen in 1962.

After graduation, he joined the IBM research staff in Yorktown Heights, New York, where he remained until 1964. At that time, he was appointed Assistant Professor of Chemistry at the University of California, Berkeley. In 1967, he was named Associate Professor, and in 1972 promoted to Professor. Concurrent with his faculty appointment, he is also a Faculty Senior Scientist in the Materials Sciences Division, and Director of the Surface Science and Catalysis Program at the Center for Advanced Materials, at the Lawrence Berkeley National Laboratory. He was appointed University Professor by the UC Board of Regents in March of 2002.

Professor Somorjai has educated 125 Ph.D. students and more than 250 postdoctoral fellows, about 100 of which hold faculty positions and many more are leaders in industry. He is the author of more than 1000 scientific papers in the fields of surface chemistry, heterogeneous catalysis, and solid state chemistry. He has written three textbooks, Principles of Surface Chemistry, Prentice Hall, 1972; Chemistry in Two Dimensions: Surfaces, Cornell University Press, 1981; and Introduction to Surface Chemistry and Catalysis, Wiley-Interscience, 1994; and a monograph, Adsorbed Monolayers on Solid Surfaces, Springer-Verlag, 1979. Professor Somorjai is among the most distinguished scientists in the world. He has won innumerable awards including: the Linus Pauling Award (2000); National Medal of Science (2002); Langmuir Prize from the American Physical Society (2007); and the ACS Priestley Medal (2008).

**Dinner Reservations:**

Please email Carolyn Benga at [crbssp@yahoo.com](mailto:crbssp@yahoo.com) or call (412) 487-0915 to make dinner reservations NO LATER THAN FRIDAY, April 17, 2009. This month's entrée will be Herb Crusted Pork Chop served with Twice Baked Potato and Broccoli Florets. Garden Tossed Salad and Hardy Rolls will start the meal, and Southern Pecan Pie will be served for dessert. Dinner will cost \$8 and checks can be made out to the SSP. If you have dietary restrictions, please let Carolyn know when you RSVP.

**Parking Instructions:**

The Duquesne University Parking Garage is located on Forbes Avenue. Upon entering the garage, receive parking ticket and drive to upper floors. Pick up a parking chit at the dinner or meeting. If any difficulties arise, contact Dr. Mitch Johnson at Duquesne University.