



Spectroscopy Society of Pittsburgh

November Meeting

Monday, November 13, 2017

held at Duquesne University



- 5:30 PM** Technology Forum Speaker's Presentation – **Power Center Ballroom Section C**
5:30 PM Social Hour – **Power Center Fides Shepperson Suite**
6:45 PM Dinner – **Power Center Ballroom Section C**
8:00 PM Business Meeting – **Power Center Ballroom Section C**
8:15 PM Technical Program Speaker's Presentation – **Power Center Ballroom Section C**

Dinner Reservations:

Please register on-line at <http://www.ssp-pgh.org> to make dinner reservations **NO LATER THAN Tuesday, November 7, 2017 at noon**. Dinner will cost \$10 (\$5 for students) and checks must be made payable to the SSP. This month's Main Entrée: **Sliced Ham with Pineapple Glaze**. Vegetarian Entrée: **Creamy Polenta with Broccoli**. If you have any dietary restrictions, please indicate them when you RSVP.

Parking:

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.

TECHNOLOGY FORUM - 5:30 PM

Howard Fry, Pyrotechnic Artists, Inc.



“Fireworks”

Fireworks, the science behind the magic

- Anatomy of a fireworks shell
- Patterns and effects
- Methods of ignition
- Consumer and display fireworks
- Rules and regulations

Biography

Howard Fry is retired from the trucking industry and resides in the Johnstown area. He is president of the Pyrotechnic Artists Inc., a fireworks club incorporated in Pennsylvania. Dean Putt is a retired chemist living in the Lancaster area. Dean is a director in the Pyrotechnic Artists. Howard and Dean each have over 25 years' experience in professional fireworks displays. Both are members of the National Fireworks Association, Pennsylvania Pyrotechnics Association, and national fireworks safety instructors for the Pyrotechnics Guild International. Howard and Dean work closely with ATF, Homeland Security, State and Federal DOT, Pennsylvania DEP, PHEMSA, and the CPSC on issues relating to the fireworks industry.

TECHNICAL PROGRAM - 8:15 PM

Dr. Ellen Gawalt, Duquesne University

“Surface Modification of Biomaterials with Bioactive Molecules”



Biography

Dr. Gawalt attended Duke University as an undergraduate. There she was a member of the varsity swim team and conducted undergraduate research in bioinorganic chemistry. She moved onto Princeton University for graduate school where she earned her Ph.D. focusing on the surface chemistry of metal oxides. Dr. Gawalt completed a two-year post-doctoral fellowship at the University of Chicago working on reaction kinetics at surfaces and the cellular response to surface changes. Her research group currently focuses on the surface chemistry of biomaterials and improving the tissue-material interaction. She is a member of the McGowan Institute for Regenerative Medicine at the University of Pittsburgh and has won the University Creative Teaching Award and the BSNES Excellence in Teaching Award. She grew up in Northern Virginia and she and her family currently reside in the Shadyside section of the city.