



# American Chemical Society Susquehanna Valley Section

## MAY 2011 NEWSLETTER

The three hundred ninety seventh meeting of the American Chemical Society Susquehanna Valley Section will be our Annual Awards Banquet and will be held on Wednesday, May 4, 2011. With the presentation of various local section awards, the Annual Awards Banquet recognizes both aspiring and accomplished chemistry professionals in the area who have helped to promote chemistry, the chemical professions, and the section. This year's meeting will begin at 5:30 PM in the Kehr Union Building on the Bloomsburg University campus. The speaker will be Dr. Julie A. Palkendo from Kutztown University.

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### *"Analyzing the Air We Breathe"*

Julie A. Palkendo, Ph.D.  
Assistant Professor of Environmental Chemistry  
Kutztown University of Pennsylvania

The air that we breathe is an extraordinarily complex mixture which constantly varies as a function of time, temperature, and location. A significant component of this mixture is particulate matter, also referred to as aerosols. Atmospheric aerosols have adverse impacts on visibility, human health, and global climate. Particle size, number concentrations, and mass concentrations are important properties that are used to evaluate these impacts. This talk will describe the history behind air pollution, how atmospheric particles are monitored and analyzed, the chemical composition of particles, known particulate sources, and human health effects. Data will also be presented from a recent indoor air monitoring study conducted by an undergraduate research student at Kutztown University.

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Dr. Julie A. Palkendo is an Assistant Professor of Environmental Chemistry at Kutztown University of Pennsylvania. Dr. Palkendo obtained her B.A. in Chemistry from the The College of Wooster in Wooster, OH and her Ph.D. from the University of Delaware under the advisement of Dr. Murray Johnston with emphasis in the fields of mass spectrometry and aerosol science. During her graduate work, she built a novel aerosol ion trap time-of-flight (IT-TOF) mass spectrometer with the ability to switch between different types of ionization modes. This mass spectrometer was designed to be used for the chemical characterization of atmospheric particulate matter. In her short time at Kutztown, Dr. Palkendo has started a small undergraduate research group that is focused on studying particulate matter in the ambient air as well as investigating indoor air quality. She is also involved with the Pennsylvania Institute of Children's Environmental Health (PICEH) organization that helps to maintain the Kutztown Air Monitoring Station that is located on campus.

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**Dinner:** Dinner will be buffet-style with a selection of entrees, side dishes, salad and dessert. Dinner will begin at 6:00 PM and the cost will be \$20, but is free for awardees. Please RSVP Mr. John Shirley by email ([jshirley@bloomu.edu](mailto:jshirley@bloomu.edu)) or phone (570) 389-5159 by 4:00 PM on Monday, May 2, 2011.

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**DIRECTIONS:**

**East of Bloomsburg:** Use I-80 west to Exit 236A south.

**West of Bloomsburg:** Use I-80 east to Exit 236 south.

**South of Bloomsburg:**

**From Central Pennsylvania:** Take Routes 11 and 15 north to the Town of Bloomsburg. Heading north on Main Street, you'll see Carver Hall directly ahead, and you'll arrive on the western end of the campus

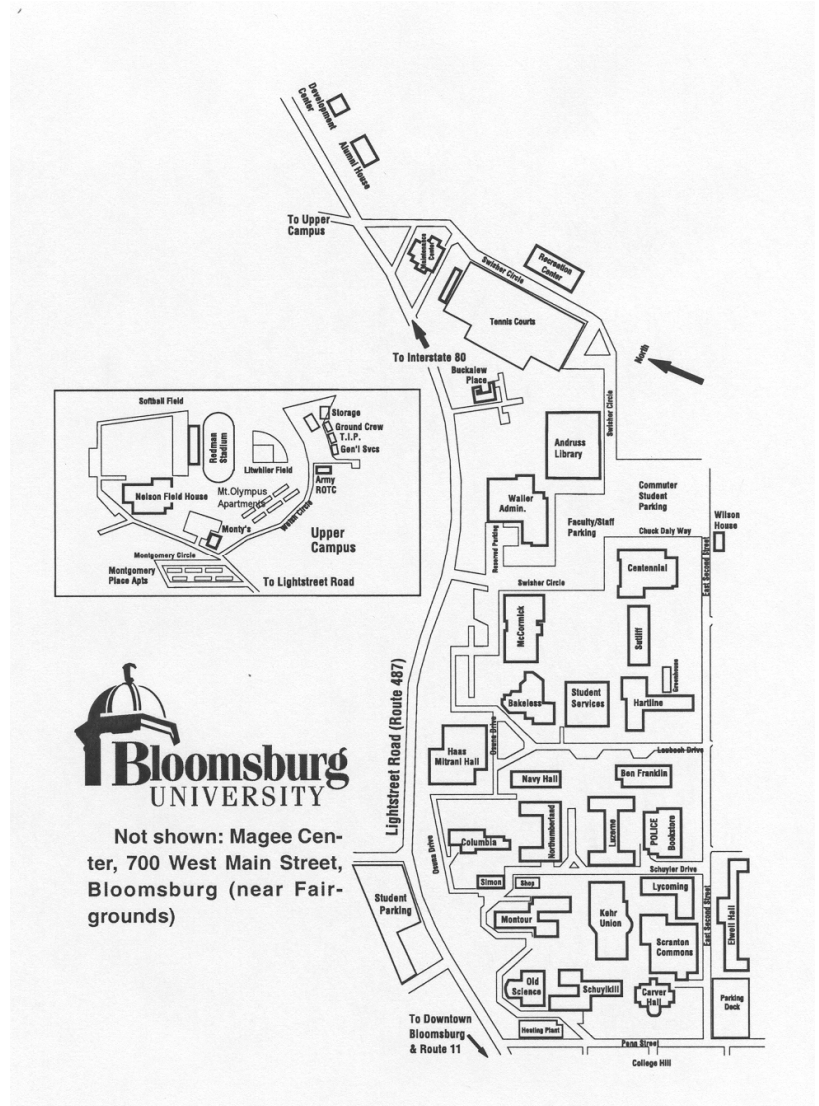
**From southeast Pennsylvania:** Take Northeast Extension of the Pennsylvania Turnpike (I-476) to I-80 west (Pocono Exit) to Exit 236A south.

**From the Scranton/Wilkes-Barre area:** take I-81 south to I-80 west to Exit 236A south.

**From the Williamsport area:** take I-180 south to I-80 east to Exit 236.

**From Exit 236 on I-80,** take Route 487 south and follow signs to campus, approximately one mile. You'll arrive on the eastern end of campus. The first sign on the left will be at Buckingham Maintenance Center; the second sign on the left will lead up a steep entry and onto campus facing Centennial Hall. Attendees can park anywhere on campus after 5:00, except in the metered parking on Second St. (meters are active until 2 am). It is suggested that attendees may find it convenient to park in the parking garage on the corner of Penn St. and Second St.

If you park in the parking garage you will be looking at Carver Hall (large gold dome). Kehr Union is situated behind Carver and the Scranton Commons.



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Section Web Page: <http://departments.kings.edu/SusquehannaValleyACS>  
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