



American Chemical Society Susquehanna Valley Section

FEBRUARY 2011 NEWSLETTER

The three hundred ninety fourth meeting of the American Chemical Society Susquehanna Valley Section will be held on Wednesday, February 9, 2011 in the Fitzgerald Room in the Sheehy-Farmer Campus Center on the King's College campus in Wilkes-Barre, PA. The meeting will begin at 7:45 p.m. and will be preceded by a reception and dinner starting at 6:30 p.m. in the Fitzgerald Room. The speaker will be Dr. Ephraim Woods from Colgate University.

"Sea Spray from a Molecular Point Of View"

Dr. Ephraim Woods
Associate Professor of Chemistry
Colgate University

We use probe molecule spectroscopy to characterize aerosol particles that mimic sea spray. In particular, we try to understand how the surface morphology of sea spray particles changes as the relative humidity changes. Our results illustrate that over a wide range of composition, these particles have core-shell structure with NaCl in the core and primarily hydrated magnesium salts in the shell. We also investigate the "aging" process of marine aerosols by examining the effect of adding nitrate on the particle morphology and phase change behavior.

Dr. Woods received a B.A. in Chemistry and Mathematics at Transylvania University, and he received his Ph.D. in Chemistry at the University of Wisconsin, Madison in 1998. His dissertation work with Fleming Crim involved the control of bimolecular reactions through the selective excitation of vibrational eigenstates. As a postdoctoral associate with Roger Miller and Thomas Baer at the University of North Carolina, Chapel Hill, he developed new methods and applications in single aerosol particle mass spectrometry. He joined the Chemistry Department at Colgate University in 2002, and his current research characterizes model tropospheric aerosol particles using spectroscopic probes.

DINNER: Dinner will begin at 6:30 p.m. The menu selections are either prime rib au jus, chicken francaise or wild mushroom ravioli. The cost will be \$16.25 per person. Those interested in attending the dinner please contact Ron Supkowski with your choice at 570-208-5900 x5733 or ronaldsupkowski@kings.edu before Friday, 4 February 2011.

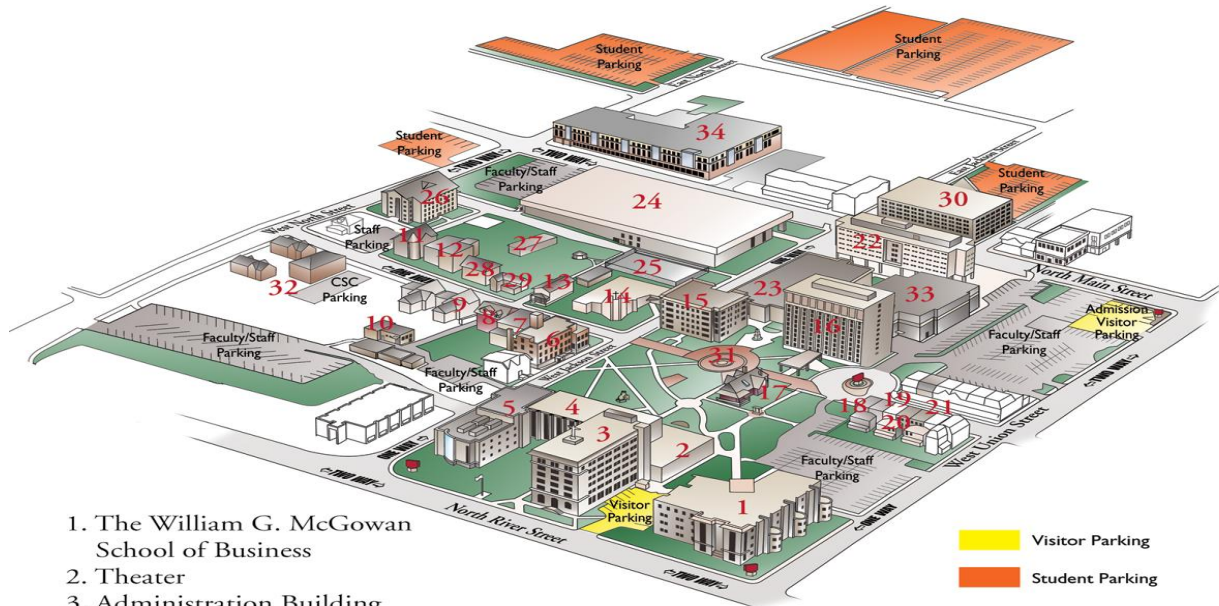
DIRECTIONS TO THE SHEEHY-FARMER CAMPUS CENTER

- From Route I-81, take Exit 170B (formerly Exit 47B) which will put you on Route 309 North.
- Follow Route 309 to exit 3 (Wilkes-Barre/Plains).
- Turn left off the exit ramp onto North River Street. Proceed about 1.5 miles, and you will see the Luzerne County Courthouse on your right. Continue through the light at the courthouse.
- Turn left at the next street, West Jackson Street. There is no traffic light at West Jackson Street, so do not go as far as the next light.
- Go through the stop sign and at the first traffic light, turn right onto North Main Street.
- Turn right at the next light onto West Union Street.
- About halfway down the block on your right you will see the entrance to a parking lot. Enter the paved lot where the gate is raised.
- As you pull into this lot, you are looking at the back of the Sheehy-Farmer Campus Center, where your event is being held. It is a three-story building. You can walk to the front of the Campus Center by following the lane that runs along the left-hand side of the building (lights line the walkway).
- Your event is taking place on the 3rd floor of the Sheehy-Farmer Campus Center. The elevator is around the corner to your left after you enter the building, past the stairwell and large painting.

For additional directions, visit <http://www.kings.edu/Directions/index.html>

KING'S COLLEGE

WILKES-BARRE, PENNSYLVANIA



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| <ol style="list-style-type: none"> 1. The William G. McGowan School of Business 2. Theater 3. Administration Building 4. Mulligan Physical Science Center 5. Charles E. & Mary Parente Life Sciences Center 6. Luksic Hall 7. John J. Lane House 8. Kilburn House 9. Benaglia Hall 10. Environmental Studies 11. Intern Housing 12. Holy Cross Community/ Student Housing 13. Sherrer House 14. J. Carroll McCormick Campus Ministry Center (Chapel) 15. Hafey-Marian Hall 16. Holy Cross Hall 17. Hessel Hall | <ol style="list-style-type: none"> 18. Athletic Recruitment Center 19. Study Abroad and Honors Program 20. College Offices 21. College Offices 22. Esseff Hall 23. D. Leonard Corgan Library 24. Scandlon Physical Education Center 25. Basketball Court 26. Flood Hall 27. Maintenance 28. Human Resources 29. Storage Facility 30. Alumni Hall 31. Monarch Court 32. Moreau Court 33. Sheehy-Farmer Campus Center 34. Gateway Corners |
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Section Web Page: <http://departments.kings.edu/SusquehannaValleyACS>
