



# American Chemical Society Susquehanna Valley Section

## NOVEMBER 2014 NEWSLETTER

The four hundred and twentieth meeting of the American Chemical Society Susquehanna Valley Section will be held on Wednesday, November 12, 2014 in room G11 of the Heim Building on the campus of Lycoming College. The meeting will begin at 7:00 PM and will be preceded by dinner at 5:15 PM at the Bullfrog Brewery at 231 West Fourth Street, Williamsport, PA. The speaker will be Chriss E. McDonald of Lycoming College.

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### *" The Development of Novel Ligands for the Activation of Samarium Diiodide"*

Dr. Chriss E. McDonald  
Department of Chemistry  
Lycoming College  
Williamsport, PA

The goals of this project are two-fold: 1) To find activators for samarium diiodide ( $\text{SmI}_2$ ) that exclude known mutagenic moieties, such as the N-methyl groups found in the most common activator, HMPA; 2) To identify compounds which are better activators of  $\text{SmI}_2$  than HMPA. Multiple compounds have been identified which accomplish these goals. Efforts to characterize the complexes (kinetic, cyclic voltammetry, X-ray analysis, UV-vis) formed between these compounds and  $\text{SmI}_2$ , and comparison to the analogous complex formed between  $\text{SmI}_2$  and four HMPA molecules, will be discussed. The use of these complexes in important synthetic transformations will also be addressed.

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Chriss E. McDonald graduated from Manchester College (IN) with a B.S. degree in medical technology. He then earned a Ph.D. in organic chemistry from Miami University (OH). After one year as a sabbatical replacement at Berea College (KY), he obtained a tenure track appointment at Lycoming College (PA). He is currently the Frank and Helen Lowry Professor of Chemistry at Lycoming. His research interests include radical synthetic chemistry and the development of novel inquiry-based experiments for the undergraduate organic chemistry laboratory.

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DINNER: 5:15 PM at the Bullfrog Brewery (231 West Fourth Street, Williamsport, PA). Please call or email reservations to Debbie Smith (570-321-4180 or [smithdeb@lycoming.edu](mailto:smithdeb@lycoming.edu)) by November 7.

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#### **DIRECTIONS TO LYCOMING COLLEGE:**

From I-80, take U. S. Route 15 north. Travel approximately 15 miles to Williamsport. Continue over the Market Street Bridge (stay in left lane) and follow the signs for the Business District. Go to the fourth traffic signal and turn right onto Little League Boulevard. Go one block east and turn left at the stop sign onto Mulberry Street. The commuter parking lot will be the first on your left. Attendees will need to walk up Mulberry Street and enter the Heim Science Building using the south entrance as the north entrance is closed for construction. The lecture room for the meeting is G11, which will be down one flight of stairs.

From I-180/US-220, exit onto Market Street (Exit 27A). At the traffic signal turn toward the city and follow Market Street north. Go to the third traffic signal and turn right onto Little League Boulevard. Go one block east and turn left at the stop sign onto Mulberry Street. The commuter parking lot will be the first on your left. Attendees will need to walk up Mulberry Street and enter the Heim Science Building using the south entrance as the north entrance is closed for construction. The lecture room for the meeting is G11, which will be down one flight of stairs.

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**DIRECTIONS TO THE BULLFROG BREWERY RESTAURANT**

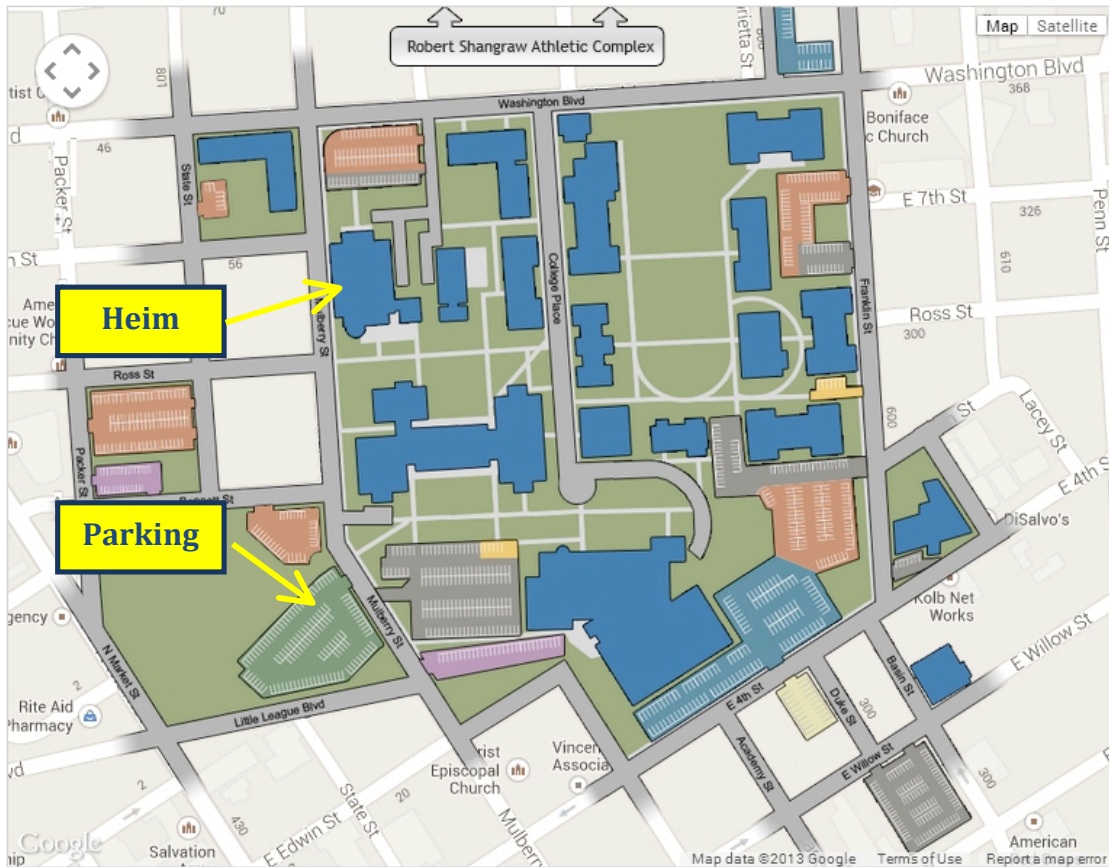
From I-80, take U. S. Route 15 north. Travel approximately 15 miles to Williamsport. Continue over the Market Street Bridge (stay in left lane) and follow the signs for the Business District. At the third traffic signal, turn left onto 4th Street. Follow 4th Street west to the third traffic signal, which is Hepburn Street (there will be a movie theater on the right at the corner). Parking is available along Hepburn Street (on the street and in a public parking lot). The Bullfrog Brewery is directly next to City Hall on 4th Street, one block east of Hepburn Street.

From I-180/US-220, exit onto Market Street (Exit 27A). At the traffic signal turn toward the city and follow Market Street north. At the second traffic signal, turn left onto 4th Street. Follow 4th Street west to the third traffic signal, which is Hepburn Street (there will be a movie theater on the right at the corner). Parking is available along Hepburn Street (on the street and in a public parking lot). The Bullfrog Brewery is directly next to City Hall on 4th Street, one block east of Hepburn Street.

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**DIRECTIONS FROM THE BULLFROG BREWERY RESTAURANT TO LYCOMING COLLEGE:**

Follow Hepburn Street north to the traffic signal at Little League Boulevard (0.2 mi). Turn right onto Little League Boulevard and follow it until it ends at Mulberry Street (0.3 mi). Turn left at the stop sign onto Mulberry Street. The commuter parking lot will be the first on your left. Attendees will need to walk up Mulberry Street and enter the Heim Science Building using the south entrance as the north entrance is closed for construction. The lecture room for the meeting is G11, which will be down one flight of stairs.



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**2014 LOCAL SECTION ELECTIONS:**

The section's Nomination Committee is still seeking nominations for the position of section Treasurer. If interested, please contact Dr. Genevieve Henry at [henry@susqu.edu](mailto:henry@susqu.edu) or 570.372.4222

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

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