



THE FILTERPAPER



February 2011

All the News That's Filtered to Print

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Engineer's Week – ACS Joint February Dinner Meeting

*High Speed Rail-Will it Fly? - Smart Bridges-How Wireless Sensor Detect an Ailing Bridge
Intelligent Transportation-How Do Those Traffic Signals Really Work?*

Darwin Simonaitis – Dr. Masahiro Kurata- TBA-INDOT Representative

Saturday, February 26th, 2011

Social Time: 5:00-6:00 (Cash Bar)
Dinner: 6:00-7:00
Talk: 7:00-9:00ish

Dinner Location: Windsor Park Conference Center, Edison Lakes Parkway Mishawaka, IN (271-8060)

Menu: Polish Buffet (Baked Chicken, Polish Sausage, Noodles, Mashed Potatoes, Green Beans, Salad
Coffee or Tea and Dessert (Chocolate Mousse or Peach Melba)

Dinner Cost: \$15 ACS Members & Guests-\$10 ACS Students if RSVP by February 17th to ACS Local Section

Abstract: **High Speed Rail-Will It Fly** will cover the development of high speed rail and its current state world-wide. He will enlighten us on where the US is with high speed rails, whether we need more and the benefits and impact of high speed rail corridors.

Smart Bridges-How Wireless Sensors Help Detect Ailing Bridges will discuss the work currently being performed by a team of 14 researchers from the College of Engineering at the University of Michigan under the direction of Professor Jerome Lynch and Dr. Masahiro Kurata. Masahiro will talk about the work in developing bridge sensors that can remotely monitor if the bridge is damaged, cracking or corroding. These sensors soon may be used to aid bridge inspectors across the US to more effectively monitor our bridges and allow for damage to be detected before a bridge collapses.

Intelligent Transportation: How Do Those Traffic Signals Really Work? We will be an enlightening (pun intended) about the latest technology in traffic signals. A brief history of how traffic signals have changed over the years and a glimpse of what we can expect in the future for traffic control will be presented. All of our nagging questions should be answered such as: How do they know a car is waiting for a green light? or Why didn't the car trigger the signal car to get the green light?

Biography: Darwin Simonaitis has a BSEE, MSEE, Illinois Institute of Technology, Chicago, IL and was formerly with IIT Research Institute, Chicago, IL. EE faculty, IIT. He retired from Bayer Corporation, Medical Diagnostics Division where he worked with the Quality Engineering Staff. He also taught at IUSB. He is currently President, New York Central System Historical Society and Staff Advisor, National New York Central Railroad Museum, Elkhart, IN.

Dr. Masahiro Kurata is currently a Research Fellow in the Department of Civil and Environmental Engineering at the University of Michigan's Laboratory for Intelligent Structural Technology.

RSVP: Andy Edelbrock (andy.edelbrock@bayer.com or Phone: 574-256-3443) by Monday February 17th

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Executive Committee Meeting Minutes

Saint Joseph Valley Section (ACS)
Executive Committee Minutes
January 17th 2011

Present: Dan Brown (Chair & Past Chair), Jing Lin (Chair-Elect), Andy Edelbrock (Filter Paper Editor, Secretary & Webmaster), Pat Boettcher (Treasurer), Paul Montbriand (Alternate Councilor), Rui Ma (Member-At - Large) & Patsy Boehler (NCW Chair)

1. Submission of the Annual Report was discussed with the due date being in mid February. A new on-line process is in effect Dan discussed that the items needed to be included from the previous year included NHCL, NCW (Science Spooktacular & ND - Should submit these for Chemiluminary awards), Science Café & Olympiad
2. Pat gave the Treasurers Report: The December statement had Total Assets at \$24,700.25. The executive committee voted to roll over a CD of \$2923.09 to 20 months at 0.95%
3. The committee voted to fund project SEED II students for \$3000 dollars total for 2011.
4. The committee reviewed the potential speaker list for 2011 and it currently stands at one speaker from National on March 23rd. Andy volunteered to host the program. Ruilli's will be looked at as a possible meeting place and if the Science Olympiad is completed by then, they will be invited to also attend. Dan mentioned several other potential speakers: Abe Bruebacker on Extraction of Natural Products from Lily Pads, a potential food chemistry meeting utilizing Martins Food Class and coupled with a local speaker to relate the chemistry behind the techniques, and John Alter who has indicated a willingness to speak about the chemistry of wine
5. Support was approved from Jing Lin to go to the ACS Leadership conference in Ft. Worth Texas.
6. The Free-Bitting scholarship has not been awarded in the last two years and therefore, a proposal to expand the criteria was approved. The scholarship will now be open at the incoming freshman level and open to ACS member dependents and grandchildren as well as high school Chemistry Olympiad participants. Preference will be given to ACS member dependents and grandchildren and continued awards past Junior year will favor those in a declared Chemistry related program.

Andy



SJV-ACS 2011 Executive Committee Election Results

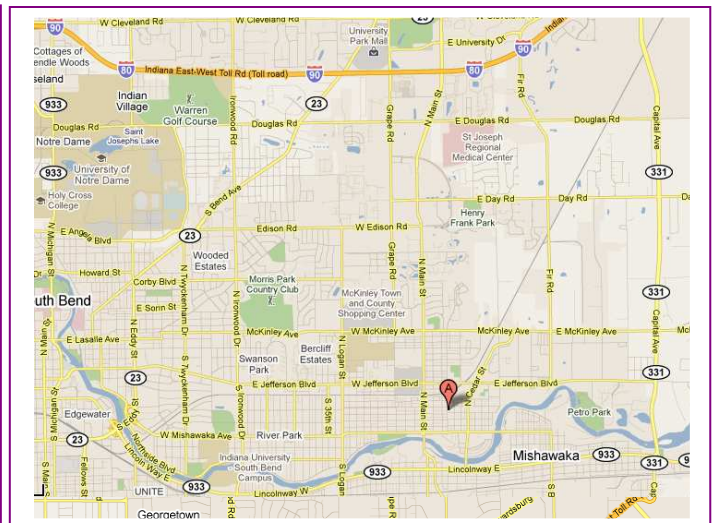
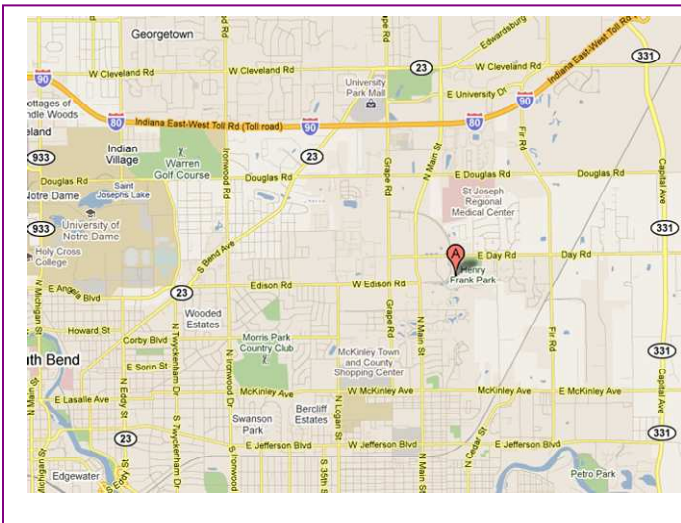
The results of the Local Section 2011 Officer Elections are in. There were 3 write-in votes cast for different positions. The executive committee would like to extent to those candidates as well as any other local section member to let any member of the executive committee know if you would consider running for any of next year’s elections. Chair-Elect or Councilor (3 year commitment) or Treasurer, Member-at-Large or Secretary (1 year commitment)

Chair Elect:	Jing Lin	(49)
	Seth Brown	(1)
Member-at-Large:	Rui Ma	(49)
	Holly Goodson	(1)
Treasurer:	Pat Boettcher	(50)
Secretary:	Andy Edelbrock	(50)
Alternate Councilor:	Paul Montbriand	(49)
	W. Robert Scheidt	(1)

February and March Dinner Meeting Directions

February Dinner Meeting
Windsor Park Conference Center
4020 Edison Lakes Parkway- Mishawaka

March Dinner Meeting
Pasquale Rulli’s
904 Division Street - Mishawaka





March Dinner Meeting

Antidotes for Terrorist Toxins

Ned Heindel – Lehigh University
Professor of Chemistry
Wednesday, March 23rd, 2011

Social Time: 5:00-6:00 (Pop, Coffee, Beer & Wine Provided)
Dinner: 6:00-7:00
Talk: 7:00-8:30
Dinner Location: Pasquale Rulli's 904 Division Street, Mishawaka, IN 259-9959
Menu: Pizza & Salad Buffet
Dinner Cost: \$10 ACS Members & Guests

Abstract: A number of terrorist and local military operations worldwide have recently used mustard, chlorine, cyanide, and nerve gas against civilian populations. A consortium of academic, governmental, and industrial laboratories have combined to develop fast-acting interventional pharmaceuticals to save exposed victims. Chemists and biologists are using those same principles of medicinal chemistry and drug discovery traditionally applied when a disease state is the target against the often-fatal physiological conditions induced by chemical weapons. This presenter is part of a national effort to neutralize the effects of sulfur mustard. The chemistry and biology of this painful vesicant and some promising therapeutics for arresting its effects will be covered in the lecture.

Biography: Ned Heindel graduated from Lebanon Valley Collage with a B.S. in Chemistry and Math in 1959 and from there continued his education at the University of Delaware where in 1963 he received his PhD in Organic Chemistry. He holds honorary doctorates at Lebanon Valley College & Albright College. He started his career in teaching at University of Delaware, Princeton University, Ohio University, Marshall University. In 1971, he came to Hahnemann University as a professor of nuclear medicine and in 1976 he also started teaching at Lehigh University as an assistant professor and eventually became a full professor of chemistry. He was the director of the Center for Health Sciences at Lehigh from 1980-87. He is a past president of the ACS (1994) and was an ACS director from 1985-1996. He has served on many scientific boards and has consulted pharmaceutical companies as well as the Smithsonian Institute. He has won several Awards including but not limited to the Robinson Award (1969), Brody Award (1978) Brady Cancer Achievement Award (1989), Henry Hill Award in Medicinal Chemistry (1997) and the Mosher Award for Contributions in Chemistry (1996).

RSVP: Andy Edelbrock (andy.edelbrock@bayer.com or Phone: 574-256-3443) by Friday March 18th