



THE FILTERPAPER



Saint Joseph Valley Local Section, American Chemical Society

April 2004

All the News that's Filtered to Print

April 12th Dinner Meeting

Updated Versions of Some of Faraday's Demonstrations Used with His Christmas Lectures on the Chemical History of a Candle

Dr. John Fortman, Wright State University

The 1988 printing of Faraday's Chemical History of a Candle, printed by the Chicago Review Press, contains 22 updated versions of demonstrations done by Faraday. Several of these will be performed by Dr. Fortman, illustrating such topics as gas burning in a candle: atmospheric pressure and gas pressure, flames versus sparks, vacuum hemispheres, and a voltaic pile. Each demonstration is accompanied by quotes from Faraday's own lectures.

At this meeting we also will honor area Chemistry Olympiad finalists!

Location

IUSB Student Activities Center, Room 225 (see map on page 2)
Parking – The parking garage will be open to visitors.

Agenda

Social Time: 6:00 p.m. (Student Activities Center, Room 225)
Dinner: 6:30 p.m. (Student Activities Center, Room 225)
Presentation: 7:30 p.m. (Northside 071; ground floor next to the elevators)

Menu

Chicken marsala, roasted rosemary potatoes, green beans almandine, tiramisu
Beverages: water, iced tea, punch

Cost: \$16

RSVP to Doug McMillen by Friday, April 9 by email (dmcmille@iusb.edu) or phone (237-4222).

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Student Paper Day

This year's student paper day is on Tuesday April 20th. Any undergraduate students interested in submitting a paper or any ACS member interested in judging should contact:

Dr. Phil Bays

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Situation Wanted

Organic Ph.D. Chemist

I am an experienced medicinal, synthetic & physical organic chemist with a proven record of accomplishments and twenty publications in peer-reviewed journals.

- Synthesis: Multi-step syntheses of organic, medicinal compounds and APIs.
- Kinetics: NMR, UV, FVP, LFP and static reactor.
- Instrumentation: NMR, IR, GC, GC-MS, HPLC, Flash Chromatography, UV, ESR, etc
- Communication: Years of research and teaching experience.
- Computer: MS Office, UNIX operating system, Web page development, Molecular modeling, ChemDraw, etc.

Contact gitenp35@hotmail.com

Upcoming Dinner Meetings

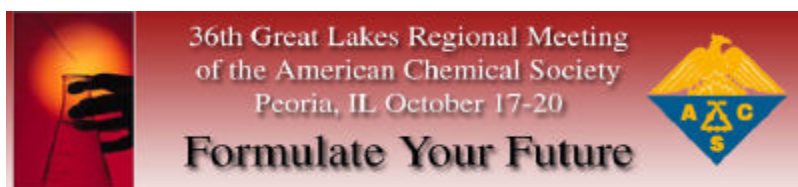
Erwin Schrodinger: The Discoverer (Inventor?) of Molecular Wave Mechanics

Dr. Richard J. Field
University of Montana
Monday, May 3, 2004

This talk is based on a superb recent biography of Erwin Schrodinger (*Schrodinger, Life and Work*, by Walter Moore, Cambridge University Press, Cambridge, 1989). The ancestry, childhood, early adulthood, and early scientific work of Erwin Schrodinger will be discussed. The development of quantum theory is qualitatively traced from Max Planck and black-body radiation to Einstein and Debye's low-temperature heat-capacity work, through Neils Bohr and the interpretation of atomic spectra, to Peter Debye's suggestions to Erwin Schrodinger that substitution of the DeBroglie wavelength into a standard wave equation might lead to interesting results. The extraordinary accomplishment of Erwin Schrodinger in a Swiss Alpine Gastehaus on Christmas break 1925, spent in the company an unknown woman, in making this simple suggestion into the most powerful and in some ways disturbing physical theory known to us is described. Erwin Schrodinger was one of the most influential thinkers of the 20th century. He was also one of this period's most interesting personalities, which also will be considered.

Wednesday, September 15, 2004 Chernobyl: A Visit to the Destroyed Reactor and Its Impact

Dr. William H. Zoller, University of Washington
5:30 pm – Social, 6:00 pm – Dinner, 7:00 pm – Presentation



The Illinois Heartland Local Section of the ACS will be hosting the 36th Annual Great Lakes Regional Meeting at the Père Marquette Hotel in Downtown Peoria, Illinois starting on Sunday, October 17 and continuing through Wednesday, October 20. <http://membership.acs.org/g/qlrm04/>

Abstracts: Submission will open April 26th 2004

Special Events: Riverboat Cruise & Awards Banquet, Illinois Women of Science Luncheon with Ann Nalley

Free Tours: Bradley University Olin Hall of Science, Caterpillar, NCAUR-USDA



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DON'T FORGET: RSVP by Friday, April 9 for the April 12 Dinner Meeting

If you are receiving a paper copy of **THE FILTERPAPER**, send your name and email address to Andy.Edelbrock.b@bayer.com

This space STILL available for Rent or Lease.

Contact Andy Edelbrock for Details