

**Mid-Hudson Chemist**  
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The *Mid-Hudson* Section of the  
American Chemical Society  
and the Chemistry Department of Vassar College

Announce

## Morphology Of Effect Materials

**Dr. Geoff Johnson**  
**Engelhard Corporation**

Wednesday, November 9, 2005

Time: 7:00 PM

Location: Vassar College, Mudd Chemistry Building  
3rd Floor - Science Visualization (Sci Vis) Lab

Contact Joseph Tanski (Vassar) at 845-437-7503 or by e-mail at [jotanski@vassar.edu](mailto:jotanski@vassar.edu).

**About the lecture:** Classic pearlescent pigments have evolved far beyond the biologically derived mother-of-pearl that originally inspired them. The class of synthetics that includes pearlescent pigments is now called “effect materials.” This renaming emphasizes that appearance is the sum of many sensory effects, not just color. The most robust effect materials are composed of thin layers of metal oxides coated onto inorganic substrates. The layer structure determines color effects, but the morphology of the substrate plays a significant role in the overall effect. There is also a class of effect materials composed of bismuth oxychloride, in which the morphology of the BiOCl crystal is solely responsible for the observed effects.

**About the speaker:** Dr. Johnson is originally from South West England, near Bath. He received a BS in Chemistry from the University of Birmingham, UK and his MS in Chemistry from the École Nationale Supérieure de Chimie de Montpellier, France. He earned a PhD in Inorganic Materials Chemistry with Professor Mark Weller at the University of Southampton, UK. Dr. Johnson's postdoctoral experience includes work in zeolite chemistry with Professor John Parise at SUNY Stony Brook and chemical catalysis at Worcester Polytechnic Institute with Fabio Ribeiro. He joined Engelhard in 2001 as a Research Chemist at the Corporate R&D facility in Iselin, New Jersey. In June 2004, he joined Engelhard's Appearance and Performance Technology facility in Ossining, New York as a Senior Scientist. Dr. Johnson is a member of the Royal Society of Chemistry, American Chemical Society, Materials Research Society, and International Zeolite Association.

**Directions to Vassar College:** Vassar College is located at 124 Raymond Avenue in Poughkeepsie, NY. Refer to the following link for driving directions and campus map: [www.vassar.edu/directions/](http://www.vassar.edu/directions/). Enter the main entrance of the campus on Raymond Avenue.

(Please Post)

## Local NCW 2004 Poster Contest Entry Wins Honorable Mention in San Diego

The Mid-Hudson Section is very pleased to announce that Taylor Garrison of Bishop Dunn Memorial School in Newburgh was an honorable mention awardee in the NCW 2004 Poster Contest. K-12 students were asked to design a poster based on the 2004 NCW theme, "Health & Wellness." Taylor's poster was one of three submitted by the Mid-Hudson Section to the National ACS. Winners of the national prizes were selected at the 229<sup>th</sup> ACS national meeting in San Diego in March 2005. The prize for honorable mentions was a set of hand-held two-way radios. Congratulations to Taylor!

## Call for Nominations for 2006 Mid-Hudson ACS Executive Board

The following Executive Board positions will be filled in elections this November:

Chair-Elect  
Treasurer  
Secretary

Member-at-Large (two positions open)

If you are interested in running for one of these positions, please contact Dan Freedman by phone at 845-257-3795 or by e-mail at freedmad@newpaltz.edu. **Nominations must be received by November 14, 2005.**

## Join the Mid-Hudson ACS Listserv!

Send an e-mail message to [listserv@acc.msmc.edu](mailto:listserv@acc.msmc.edu) with a blank subject line and the following command in the body of your message:

**subscribe acs-mh**

You will then receive a confirmation e-mail message with more information about the listserv. To post to the listserv, send e-mail to [acs-mh@acc.msmc.edu](mailto:acs-mh@acc.msmc.edu). To unsubscribe, send an e-mail message to [listserv@acc.msmc.edu](mailto:listserv@acc.msmc.edu) with a blank subject line and the following command in the body of your message:

**unsubscribe acs-mh**

**New Mid-Hudson Section Website:**  
[www.midhudsonacs.org](http://www.midhudsonacs.org)

### **Mid-Hudson ACS Executive Committee**

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Past Chair: John Harrington; Treasurer: Joan Skinner;  
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