



MONDAY

AUGUST 31, 2009

Doubletree, Alsip IL

5:00 Registration / Cocktails

5:45 Speaker

6:45 Dinner & Meeting

\$30 members with reservations

\$35 non-members and walk-ins

CHEMISTS FREE!!! (see p. 2)

Environmental Durability of Polymeric Materials (Including Coatings)

Dr. David Dumbleton

ATLAS MATERIALS TESTING

A brief discussion is provided of why a variety of world environments cause coatings to fail. What are the reasons/mechanisms for failure, manifestations of failure and how to understand and plan for environmental degradation and to remediate it before marketing a product. Methods of evaluating the weatherability of coated materials will be discussed.

DAVID DUMBLETON is a Senior Consultant with Atlas Material Testing Technology LLC, located in Chicago, Illinois, where he is focused on subjects involving the environmental durability of materials.

With over 30 years of experience in the converting, packaging and raw materials industries, Dr. Dumbleton's knowledge of both the applications and the science of materials is being brought to bear upon a broad array of material aging and durability issues for Atlas' customers. His academic credentials include degrees in Chemistry, Chemical Engineering, Physics and Materials Science from Northwestern University, the University of Wisconsin, and Georgia Tech. He has held senior technical and business management positions with such companies as American Can, Monsanto, Graphic Packaging, P.H Glatfelter and Alcoa. Atlas has been evaluating the weatherability of materials for almost 100 years, and is the recognized world authority on the environmental testing of materials.

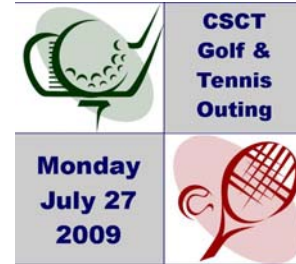
Sol-Gel Technology in Protective Coatings

Dr. Tony Gichuhi, HALOX

Sol-gel derived films can be applied at room temperature or elevated temperature to various hydroxyl-rich substrates following a two step hydrolysis and condensation reaction. These films were characterized using electrochemical methods and shown to provide good corrosion resistance. The sol-gel films also demonstrate remarkable synergy with traditional anticorrosive pigments. This presentation will introduce a new technology platform which addresses common problems in the protective coatings market using several jet-milled pigments and sol-gel additive. Recent products have been driven by market demands for low VOC, high performing DTM coatings, increased thin film corrosion protection, and the environmental concerns for heavy metal based corrosion inhibitors.

DR. TONY GICHUHI has been with HALOX for 8 years. He heads up their R&D and Technical Service departments. He gained a Bachelor of Science in Chemistry from Auburn University and then went on to complete a doctorate in Chemistry. His background includes design and development of corrosion inhibitors, formulating protective coatings, and the use of electrochemical characterization methods for anticorrosive additives. He is a member of the Chicago Society of Coatings Technology and an active member of the Science & Technology Committee at the FSCT.

*Congratulations to our
Golf & Tennis Outing
Winners!*



Men's Low Gross Course 1 - Mingbo He, 74

Men's Low Gross Course 2 - Barry Fruth, 76

Men's Low Net Score - Reggie Latta, 67

Women's Low Gross Score - Julie Kotnik, 100

Women's Low Net Score - Gisela Peter, 70

Closest to the Pin, Course 1, Hole 15 - Pete Marinelli

Closest to the Pin, Course 1, Hole 12 - Doug Wolf

Closest to the Pin, Course 1, Hole 7 - Reggie Latta

Closest to the Pin, Course 2, Hole 14 - Barry Fruth

Closest to the Pin, Course 2, Hole 11 - Henry Solle

Longest Putt, Course 1 - Ron Kleinlein

Longest Putt, Course 2 - Keith Schuld

Most Honest Golfer- Chris Howard

Tennis, 1st Place - Todd Hilson

Tennis, 2nd Place - Tien Bui

Tennis, 3rd Place - Wynn Moi

Manufacturer\$ are Free at our Technical Meeting\$

If you are a member of the CSCT and serve in a technical role at a manufacturer of paint, coatings or inks you are invited to join us for our technical meetings **free of charge**.

\$\$\$ that's a \$30-\$35 saving\$ to you or your company each time you attend \$\$\$

Simply email your reservation to kderose@spherotech.com

Make your advanced reservation for the August 31 meeting by **Friday, August 21, 2009** and your name will be put in the hat for a \$25 gift card.

YOUR MEMBER\$HIP DOLLAR\$ AT WORK—IT MAKE\$ GOOD C\$ENT\$

PURDUE

UNIVERSITY

CALUMET

Department of Chemistry and Physics

Bachelor's Degrees Programs—8 options to prepare our graduates for jobs:

Chemistry

Chemistry (*American Chemical Society-Approved*)

Pre-Medical (*preparation for future professional study in health-related fields of medicine, pharmacy, dentistry & veterinary science.*)

Physics

Physics
Engineering Physics
Computational Physics

Secondary School Teaching

Chemistry
Physics
Physical Science

Diverse Opportunities

- Hands-on exposure to a wide variety of instrumentation and one-on-one contact with excellent faculty in many areas including analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, physical chemistry, astrophysics, and high energy physics.
- Topical research opportunities include nanotechnology, environmental studies, drug design, computer-aided 3D visualization, educational research, aging studies, sub-atomic particles, separation techniques, star clusters and functionalized polymers.
- A new, off-campus remote-access observatory is being constructed for use this fall.
- Several faculty conduct extensive studies at Fermilab and other off-campus sites.
- Experiential learning is now part of all baccalaureate degree curricula.

Location

Purdue University Calumet is conveniently located in Hammond, IN—3 miles east of the Indiana/Illinois state line, just north of I-80/94, minutes from Chicago.

Contact Information

webs.calumet.purdue.edu/chemphys

219/989-2284

800/HI-PURDUE, ext. 2284



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For more information please contact:

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www.iit.edu/csl/bcps/psm



The Department of
Chemistry and Biochemistry
Where the study of matter...matters!



NORTHERN ILLINOIS
U N I V E R S I T Y

Bachelor's, Master's, and Beyond...

The NIU Department of Chemistry and Biochemistry offers training in chemistry through the doctoral level. Degree programs include the following:

- *Bachelor of Science* (B.S.) in chemistry, biochemistry, chemistry for pre-professional students, secondary teaching, and environmental science teaching
- *Master of Science* (M.S.) with a thesis/research option and a secondary teacher certification option
- *Doctor of Philosophy* (Ph.D.)

American Chemical Society Certified

The department's professional emphases in chemistry and biochemistry are certified by the American Chemical Society (ACS). The ACS recognized NIU's chemistry program as a Top 25 Producer of certified bachelor's degrees in chemistry for the 2003-2004 academic year.

Distinguished Faculty

NIU students are in good company with world renowned researchers, presidential teaching professors, and presidential research professors. These awarded faculty teach undergraduate courses as well as lead undergraduate research groups. NIU chemistry students gain a huge advantage by working along side the department's nationally and internationally recognized researchers and professors.

Scholarships & Awards

Due to the generosity of alumni and friends, departmental scholarships are awarded annually to top chemistry students, based on academic achievement, service to the department, and area of academic interest. The department also maintains funds to help support student travel to national conferences.

Outstanding Research Opportunities

Real-world chemical research offers excellent preparation for a career in chemistry or towards graduate work. Although the department *strongly* encourages all chemistry majors to participate in undergraduate research, it is required of students in the professional emphases. Current areas of research include analytical chemistry, biochemistry, inorganic chemistry, nanoscience, organic chemistry, physical chemistry, as well as interdisciplinary research across these traditional boundaries.

Join the Club

The NIU Chem Club is a student affiliate chapter of the ACS and all chemistry majors are encouraged to join! It's a great way to meet other students, as well as, the faculty and staff in the department.

Student Success

The chemistry faculty at NIU make it a priority to be available for their students during regular office hours or by appointment. The department also staffs a "help room," which is designed to assist students with their introductory chemistry courses.

Location + NIU Chemistry = Jobs!

NIU is located near the Illinois Research and Development Corridor and has strong working relations with many highly reputable institutions, such as Fermi National Accelerator Laboratory, Nalco, Abbott Laboratories, Sherwin-Williams, Argonne National Laboratory, Waste Management, and many more. These strong connections help lead to excellent employment opportunities for NIU students.

C/O JIM DONOVAN
THE CARY COMPANY
18843 Center Avenue
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CSCT 2009-2010 Calendar of Events

August 31, 2009 <i>Monday</i>	<i>Weathering</i> presented by Atlas Material Testing <i>Sol Gel Technology</i> presented by Halox	DOUBLETREE Alsip, IL
October 5, 2009 <i>Monday</i>	<i>Easy Dispersing Pigments</i> presented by Clariant <i>Carbon Black & Electrical Conductivity of Coatings</i> presented by Columbian	LOCATION TBA
November 2, 2009 <i>Monday</i>	<i>Technical Meeting</i>	TBA
December 2009	CSCT/CPCA HOLIDAY OUTING	TBA
January 11, 2010 <i>Monday</i>	<i>Technical Meeting</i>	TBA
February 1, 2010 <i>Monday</i>	<i>Technical Meeting</i>	TBA
March 1, 2010 <i>Monday</i>	<i>Technical Meeting</i>	TBA
April 5, 2010 <i>Monday</i>	<i>Technical Meeting</i>	TBA
MAY 2010	CSCT AWARDS DINNER	TBA
JULY 2010	CSCT GOLF & TENNIS OUTING	
DOUBLETREE HOTEL: 5000 W 127th St. Alsip, IL 60803 (708) 272-4200 Located just west of I-294 on 127th Street		

LOOKING AHEAD—OTHER INDUSTRY EVENTS



Sep 22-23, 2009	AC Series: Wood Coatings	Charlotte, NC
April 13-15, 2010	AMERICAN COATINGS SHOW	Charlotte, NC
October 5-6, 2010	CSCT & PCI MAGAZINE:	Local
	SYMCO and COATINGS TRENDS & TECHNOLOGIES	
Spring 2011	CSCT: Windy City Coatings Course	Local

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