

September Section Meeting:

- Speaker:** Robert D. Blackledge
- Topic:** GLITTER as Forensic Evidence
- Place:** Lawrence Technical Institute, Buell Management Building, Room M218 (see map and directions page 15)
- Date:** Friday September 11, 2009, 7:30 p.m.
- Time:** Talk: 7:30 p.m.

Abstract: Locard's Exchange Principle states, "Every contact leaves a trace." When these traces involve an exchange between a criminal, victim, and crime scene, there is the potential that they may help to establish a common association. Well known examples of such trace or associative evidence are hairs, fibers, paint chips, and broken glass fragments. Although not as well known, we will see that in many respects "glitter" is the ideal contact trace. Today, glitter may be found in every possible variation of cosmetic products. Glitter is also in widespread use as material for arts and crafts; it is used as decorative material on items of apparel, and it is incorporated in numerous clear plastic commercial products. This presentation will tell you what glitter is; how it is made; the many ways it varies; how it may be found and collected from crime scenes and evidence items; and the many ways it can be characterized and distinguished from other glitter samples. The talk will conclude with several brief case histories (including photomicrographs and infrared spectra from the actual evidence) where glitter was important associative evidence.

The Speaker: Robert (Bob) D. Blackledge received his BS in

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chemistry from The Citadel in 1960 and his MS in chemistry from the University of Georgia in 1962. Starting with the Florida Department of Law Enforcement's Tallahassee Crime Lab in 1971, Bob has worked in forensic science for over thirty years. Stops along the way included eleven years with the U.S. Army Criminal Investigation Laboratory-Europe, back during the Cold War when we had a crime lab in Frankfurt, Germany. Bob's final stint was as the Senior Chemist with the Naval Criminal Investigative Service Regional Forensic Laboratory-San Diego from 1989 to 2006. The author or co-author of roughly forty journal articles and book chapters, his interests are wide-ranging but his special passion is trace evidence. Reports of his research have been published in the FBI's Law Enforcement Bulletin, the FBI's Crime Laboratory Digest, the Journal of Forensic Sciences, Science & Justice, Forensic Science International, Forensic Science Review, Microgram Journal, and Analytica Chimica Acta. He is the editor for, "Forensic Analysis on the Cutting Edge: New Methods for Trace Evidence Analysis", scheduled to be published by Wiley-Interscience in 2006.

Want to improve the public's appreciation for chemistry? Become a Chemistry Ambassador!

Chemistry Ambassadors is a new ACS program that invites members to help improve public awareness and appreciation for chemistry in the communities where they live.

Some of you are already doing this through NCW and other activities, we applaud you. But we also know that many of our members are not able to be active in their local sections, yet they are concerned about the public's appreciation for chemistry. If you feel you don't have time to become personally involved in making a difference, we ask you to think again. Chemistry Ambassadors is custom made to fit *your* schedule and *your* interests, no matter how little time, or how much you can afford to spend.

If someone asks what you do for living, do you have a response that's comfortable for you and relevant for the other person? Are you willing to provide ACS scholarship information to a high school guidance counselor? How about science podcasts for younger students? Willing to send a letter to your elected official to influence science policy? Sample scripts and letters will be provided, along with audience-appropriate messages about chemistry. And if you have more time, we have more suggestions and more tools.

For more information, e-mail Keith Lindblom at k_lindblom@acs.org. Page 2

Engaging Colleagues in Dialogue

The Detroit Local Section is pleased to offer an ACS Leadership Development System course at no cost to individuals in the area. The system is an integrated framework of learning modules designed to help members develop into highly skilled leaders. Members of all leadership levels are invited to come to the module being presented, “Engaging Colleagues in Dialogue,” either as a refresher course or to learn a skill desired by companies. As communication skills are so fundamental to any volunteer and leadership role, we encourage all members to attend this course. You’ll gain skills that are highly transferable in your volunteer and professional roles.

Engaging Colleagues in Dialogue will be available FREE to the TriSectional area from 1-5 pm on October 3, 2009 at the Lawrence Technological Institute Science Building, Room S314 in Southfield, MI. (See page 15 for map and directions.) Class size is limited to 30 **pre-registered** participants. Course Details are provided below or online at www.acs.org/professionaldevelopment.

Engaging Colleagues in Dialogue is a four-hour, hands-on course that helps attendees improve their one-to-one communication skills. Participants will learn how to improve both sides of the communication exchange: first working to understand what is being communicated and second, working to be better understood in your own communications. You will even have an opportunity to assess your own communications skills through conversations with colleagues (within ACS and in your workplace).

Participants will:

- Learn that good communication is truly a two-way street. Without solid understanding and practice, your communications can lead to misunderstandings.
- Track your own communication skills prior to the course, and examine how you performed on the six dimensions of the communications model.

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- Learn three skills that help you to understand the other person's intended message better, versus relying on your own interpretation.
- Learn three skills to help you be better understood.
- Gain real-life practice and individual advice on things to focus on in your conversations.
- You will observe that engaging colleagues, volunteers, and other leaders in effective dialogue is central to your ability to complete key projects, lead committees, and achieve success for your team, ACS, your employer, and yourself.

Don't underestimate the value of strong two-way communications and fall into the trap of the "telephone game" hindering your ability to understand and be understood. Register now for Engaging Colleagues in Dialogue to take part in this great member benefit!

Attendees MUST pre-register for this course by logging on to the ACS Center for Professional Development at <http://acs.learn.com/custom/customloginpage.asp>. If you already have an account, simply log-in. If you do not, you'll need to create an account by entering your first name, last name, email and your ACS membership number after clicking on "Create an account".

Four easy steps to enroll in workshop:

1. Please use www.acs.org/professionaldevelopment for the registration site and **log in**.
2. Choose the "All Courses" tab on the left. Students should click on *Engaging Colleagues in Dialogue* "full course description and enrollment options" tab. (OR venture to "Events and meetings" tab on the left, scroll to the bottom for Local Section events, and choose *Engaging Colleagues in Dialogue* "full course description and enrollment options" tab for the workshop held at Lawrence Tech.)
3. At the bottom of the description is the "Enroll" button.

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4. It will open a window (allow pop-ups) and an enrollment information screen will appear. This screen notes how many seats are available. Press “Enroll” again on this screen.

Note: If you are already enrolled and want to drop this course, please log back in and go to this screen to press “Drop” to allow others a chance to take the workshop.

While you are there, check out the 1-hour Online Harvard Business (and management) Course schedule. The courses are available at a substantially discounted rate of \$25 per course and lower rates are available for members who are currently unemployed. (Site may be viewed from www.acs.org/careers as well.)

We are looking forward to seeing you there!

From the Recognition Chair...

I have always enjoyed the CIC meeting; getting together with colleagues from the Windsor CIC and the Detroit Local Section. This year the program was held at the University of Windsor in Windsor, Ontario. The events of the evening included dinner, awards banquet, and the featured speaker.

I would like to take this opportunity to let you know why the following individuals were honored at the banquet.

Distinguished Service Award: Denise Grimsley, BASF Corporation

Denise has been a member of the American Chemical Society for several years. She has been an active participant in several ACS projects and has served the ACS Detroit Section in the following capacities: coordinator for annual National Chemistry Week, co-coordinator for the annual Girl Scout Chemistry Day, volunteer

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for several Kids and Chemistry programs, where she serves as a co-leader.

Denise continues this spirit of volunteering at BASF through company outreach programs. She has been involved in an impressive assortment of science education activities including, but not limited to, “Take Your Child to Work Day”. She has a commitment to cultivate a love of science in young people today, not only as a parent, but a member of the community.

Salutes to Excellence Award: Peg Convery, Farmington High School

Peg Convery provides an introduction to the positive aspects of the Chemical Sciences and Profession to hundreds of children each year. She is a high school teacher in the Farmington Hills School District. She is also the founder of the Southeastern Michigan Chemistry Teacher’s Organization. This is a very active group of teachers who provide of network of knowledge and ideas for local teachers. In this forum, teachers can share ideas about current teaching practices, lab demonstrations, and provide positive assistance to those who are new or seasoned in the teaching field. She also acts as webmaster of SEMCTO at semcto.com. She organizes the teacher meetings, which are held 3 – 4 times per year!

Salutes to Excellence Award: David McCormick, Henkel Surface Technologies

David McCormick has volunteered for Kids and Chemistry multiple times per year over the past 10 years. David is always willing to help with any type of experiment and has brought his own experiments to several events to give the children more education than the organizer had originally planned. He is truly an asset to Kids and Chemistry. David has attended NCW several times, The Detroit Holistic Development center (inter-city tutoring center),

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and the Detroit taste fest just to name a few.

Starting in 2006, David has vacationed in Dominica to visit his sister who moved there. His sister and a friend had been setting up a table and supplies every other Saturday morning for art activities. She asked David what they could do the week he was visiting. David told her "don't sweat it, I'll bring supplies for an ACS Kid's N Chemistry type science day" and obtained the supplies for 100 Cartesian Diver/Compasses. David recruited his sister who started gathering the needed 100 empty 2 liter bottles. David worked with the children in Dominica, on his own, while on vacation. David took another vacation down to the Dominica and did more experiments with kids and chemistry supplies and sent pictures home of the children's appreciation.



ACS President Dr. Thomas H. Lane (Right) with Salute to Excellence recipient Dave McCormick (Left)

American Chemical Society – Detroit Local Section – Younger Chemists
Committee Presents:

Brewing Chemistry

Detroit, Michigan

Tuesday, September 15, 2009
at 7 PM
at Traffic Jam & Snug in Detroit

The Science of Halloween

Presented by: The Motor City Haunt Club

Second only to Christmas, Halloween is the biggest shopping holiday for retailers, generating more than \$6 billion in sales. From professional props in haunted attractions to amateur home decorating, the science of Halloween will be revealed in this entertaining presentation. Members of the Motor City Haunt Club will explain the technical side of the holiday including animatronic, pneumatic, electrical, lighting, and sound systems... and of course, chemistry!!

Unmask the materials that disgust you. Experience a bone-chilling presentation that combines the wonder of science with the thrills and chills of Halloween!

The evening of libations, edible delights and science inquiry begins at 7:00 p. m. at Traffic Jam & Snug, 511 West Canfield Street on the corner of Second Avenue, Detroit, just south of Wayne State University. There is no admission charge, and free parking is available. For directions, visit <http://www.trafficjamdetroit.com/location.php>

For more information, please visit: www.brewingchemistry.com

Or contact Meghann Mouyianis at 313-993-1259 or

meghann@brewingchemistry.com





greenUp

Michigan Green Chemistry Conference

Friday
September 25, 2009

8am - 5pm
Fort Shelby/Detroit
Downtown DoubleTree

Michigan Green Chemistry Conference will transform knowledge into action and action into results.

Leading experts in the field of technology, chemistry, engineering, and business process improvement will inspire and inform as Michigan business leaders develop an infrastructure for advancing and sustaining green products and processes.

This powerful event, initiated by Governor Jennifer Granholm, will not only impact Michigan's critical environmental policies, but also our state's economy, and its overall health.

Join those committed to moving Green Chemistry forward for Michigan!

1st
Annual

Information & Registration Forms after May 15 at www.michigan.gov/deqworkshops

SAVE THE DATE...AND THE STATE!



October Section Meeting:

- Speaker:** Steven Dutch, University of Wisconsin,
Green Bay
- Topic:** Beware the Pseudoscientist
- Place:** Lawrence Technical Institute, Buell
Management Building, Room M218 (see
map and directions page 15)
- Date:** Monday, October 5, 2009
- Time:** Mixer: 6:00 p.m.
Dinner: 6:30 p.m.
Talk: 7:30 p.m.

Abstract: There is a vast industry in the United States that is engaged in the manufacture and dissemination of scientific misinformation. Pseudoscience, or ideas that claim scientific validity but are demonstrably faulty, finds an audience for a variety of reasons. Some beliefs (diet fads) promise easy solutions to otherwise intractable problems. Others (creationism, psychic research, UFO beliefs) either are aimed directly at supporting a specific religious dogma or serve as substitutes for religion. Many beliefs (Bigfoot) seem mostly intended to titillate and lend a little excitement to life. Many beliefs (laetrile in particular) seem to serve as a focus for discontent. Virtually all pseudoscientific theories have elements of the anti-authoritarianism that fueled the laetrile campaign. The best defense against pseudoscience is scientific literacy, but there are useful clues the non-scientists can look for. Almost all pseudoscience has a touch of paranoia; the single best clue is any allegation of conspiracy or persecution. Other common aspects of pseudoscience are exaggeration of uncertainties in science, extreme relativism, overly complex approaches to other-

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wise simple problems, local fallacies, and distortion of credentials. Pseudoscience is not merely an irritating fad. It has created an environment in which faulty reasoning is deemed scientifically legitimate, pseudoscientists attain the status of experts, and where many Americans literally have no idea what is true on subjects like evolution or psychic research.

The Speaker: Steven Dutch is a geologist who got his bachelor's degree (and a ringside seat for the unrest of the 1960s) from the University of California at Berkeley. He did his doctoral research at Columbia University, with a break for military service that included a year in Turkey. The subject of his thesis was the geology of the Sudbury, Ontario area, but in 1975, he also participated in a Columbia expedition to Antarctica. Since 1976, he has been at the University of Wisconsin at Green Bay, where he holds the rank of professor and teaches "hard rock" geology: mineralogy, petrology, structural geology, and plate tectonics. His principal research interests are the Precambrian geology of the Great Lakes region, the development of computer programs for earth science education, and the relationships between science and society, particularly as expressed in pseudoscience movements. He is the author of an earth science textbook. In 1982, Dr. Dutch resumed his military career by joining the 432nd Civil Affairs Battalion of the U.S. Army Reserve. He spent six months in the Persian Gulf and Kurdistan in 1991 and six months with the peacekeeping mission in Bosnia in 1996, and retired from the military in 2001.

Get Involved in the ACS Celebration of IYC 2011: Support the U.S. Commemorative Stamp Campaign

The ACS is working to urge the United States Postal Service to adopt chemistry as a theme for a commemorative stamp in 2011 in view of the contributions of chemistry to the well-being of humankind in the U.S. and worldwide and on the occasion of the 2011 International Year of Chemistry.

The USPS gets 50,000 subject requests per year and awards only

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25 commemorative stamps per year - Your efforts to contribute to this cause this year are very important and very much appreciated!

How to get involved:

- Visit www.acs.org/iyc2011 to download the petition
- Distribute the petition for signature among your colleagues, students, and friends (all chemists and friends of chemistry are encouraged to sign!)
- Mail or FAX completed petitions to the ACS Office of International Activities no later than November 1. (see petition for fax number and address)

To learn more about IYC 2011 and to contribute ideas to the ACS

Detroit ACS Section and ANACHEM on the Web

A Website for the Detroit ACS Section and ANACHEM, maintained by Ed Havlena can be found at:
<http://www.detroitsection-acs.org>

The Detroit Chemist is now also available via email. To subscribe send an email to:
majordomo@angus.mystery.com with

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end
in the body of the message.

celebration of this his-
[acs.org/iyc2011](http://www.acs.org/iyc2011).



toric event, visit [www.](http://www.acs.org/iyc2011)

2009 ANACHEM / SAS Symposium
Thursday, October 29, 2009
Burton Manor

Call for Poster Presentations

Symposium Description:

The 2009 ANACHEM/SAS Symposium will be held on Thursday, October 29, 2009 at Burton Manor in Livonia, MI. The site is easily accessed from interstate highway I-96. A plenary lecture and an oral session with invited speakers will be given in honor of Professor Scott McLuckey, the 2008 recipient of the ANACHEM Award. As always, an instrument exhibit and two educational workshops are integral parts of this annual symposium on chemical analysis.

This year's symposium will also feature sessions devoted to student research, mass spectrometry, and other topics of current analytical interest.

Student Sessions:

Graduate and undergraduate students are encouraged to participate both in the poster session and in an oral session highlighting academic research at local universities. There is a \$200 cash prize for the best graduate paper presented in the oral student session and a \$100 cash prize for the best undergraduate poster presentation. Titles and abstracts for student oral session and poster session are due **October 9, 2009**.

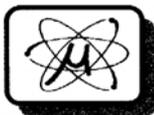
Poster Session:

Papers are also being solicited for presentation in the afternoon poster session. The poster session is an excellent opportunity to share your research with the local analytical community.

Final titles and abstracts for all sessions will be accepted through **October 9, 2009**. Send your titles and abstracts to Patricia Coleman, pcoleman@chem.wayne.edu. For questions about the exhibit contact Michael Iglehart at:

michael.iglehart@basf.com.

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- www.mboservices.net
- <http://www.acs.org>

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Lawrence Technological University By Car

From the Southwest and Detroit Metro Airport:

Follow I-94 East to the northbound Southfield Freeway (M-39). Exit onto northbound M-10 (Northwestern Highway/Lodge Freeway). Proceed north and exit at Ten Mile Road/Evergreen Road. Take the Northwestern Highway Service Drive to Ten Mile Road. Turn left onto Ten Mile Road. The campus entrance is on the right.

From the West and Ann Arbor (via I-94 and M-14):

Follow I-94 East to eastbound M-14. Continue on M-14 to northbound I-275. Take I-275 North to I-696 East. Proceed east on I-696 to southbound M-10 (Northwestern Highway/Lodge Freeway). Exit at Ten Mile Road/Evergreen Road. Turn right onto Ten Mile Road. The campus entrance is on the right.

From the Northwest and Lansing (via I-96 and I-696):

Follow I-96 East to I-696. Proceed east on I-696 to southbound M-10 (Northwestern Highway/Lodge Freeway). Exit at Ten Mile Road/Evergreen Road. Turn right onto Ten Mile Road. The campus entrance is on the right.

From the North (via I-75):

Follow I-75 South to I-696 West. Proceed west on I-696. Exit at Evergreen Road. Turn left onto Evergreen Road and proceed south one mile to Ten Mile Rd. Turn right onto Ten Mile Road. The campus entrance is on the right.

From the East (via I-696):

Follow I-696 West. Exit at Evergreen Road. Turn left onto Evergreen Road and proceed south one mile to Ten Mile Road. Turn right onto Ten Mile Road. The campus entrance is on the right.



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TECHNOLOGICAL
UNIVERSITY

Building Key

1. Corporate Services Center
2. Don Ridler House:
Applied Research Center
3. University Housing Center - North
4. Wayne H. Buell Management Building
College of Management
Library
Dining Facilities
5. A. Alfred Taubman Student
Services Center
6. Science Building
College of Arts and Sciences
7. Architecture Building
College of Architecture and Design
8. University Technology and
Learning Center
9. Engineering Building
College of Engineering
10. Center for Innovative Materials Research
(CIMR)
11. Professional Development Center
12. Maintenance Building
13. University Housing Center - South
14. Outdoor Athletic Fields

Calendar of Upcoming Events

- September 11 September Section Meeting
Topic: "GLITTER as Forensic Evidence", *see*
pages 1,2 & 15 for details
- September 15 Brewing Chemistry: The Sci-
ence of Halloween, *see page 8 for details*
- September 25 Michigan Green Chemistry
Conference, *see page 9 for details*
- October 3 ACS Leadership Training, *see*
page 3-5 for details
- October 5 October Section Meeting Topic:
"Beware the Pseudoscientist", *see pages 10-11 for*
details
- October 9 Abstracts due for 2009
ANACHEM/SAS Symposium, *see page 13 for de-*
tails
- October 29 2009 ANACHEM/SAS Sympo-
sium, *see page 13 for details*



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