KLS-ACS NEWS

AMERICAN CHEMICAL SOCIETY
KENTUCKY LAKE SECTION

Volume 5, Issue 3
March 2009

March Kentucky Lake Section Meeting

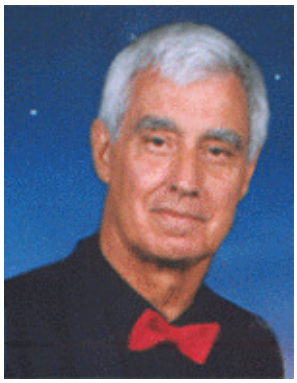
at

Fresh Market Restaurant
2255 E. Wood St. (Hwy 79)
Paris, TN

Tuesday, March 10, 2009

Registration:	**5:30 pm**
Dinner:	**6:00 pm**
Presentation:	**7:00 pm**

Price: $10 (Students $5)



Presentation:

Glitter as Forensic Evidence
by

Dr. Robert Blackledge
NCIS (Retired)

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.

Biographical Information

Dr. Robert D. Blackledge

Robert (Bob) D. Blackledge received his BS (chem.) from The Citadel in 1960 and his MS (chem) from the University of Georgia in 1962. Starting with the Florida Department of Law Enforcement's Tallahassee Crime Lab in 1971, Bob 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 there was 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"*, published by Wiley-Interscience in Aug. 2007.

Message from the Chair:

Dear Members,

The February meeting with Dr. Pete Ludovice was both informative and quite entertaining! Two awards were presented that night. The past-chair pin was presented to Sandra Ashford as a badge of honor for her tireless efforts in preparing and executing the KLS 2008 program and Keith Butler was presented the Industrial Chemist Award by Dr. Charles Baldwin. Both Sandra and Keith are exceptional KLS members!

A new committee, the Government Affairs Committee, has been formed and is chaired by Dr. Charles Baldwin. In a new initiative by the American Chemical Society to be a force in influencing State and Federal legislative actions, Tennessee has been designated by ACS as one of the five pilot states for focused legislative involvement. This includes direct contact with legislators as well as encouraging letter writing campaigns by Society members to educate and influence lawmakers when debating scientific and specifically chemistry related issues. If you want to be involved with this committee drop Charles an e-mail.

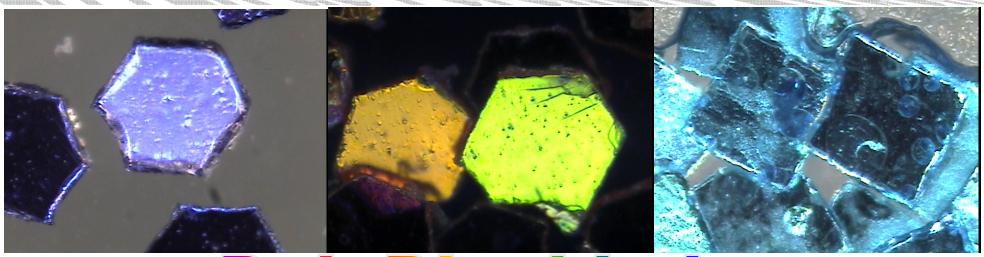
I would like to draw your attention to the link for the Kentucky Lake Section's website: http://membership.acs.org/k/KentuckyLake/index.htm Grab a cup of coffee/hot chocolate or beverage of choice and sit back and peruse the site. Take a few moments to get to know the academic institutions and industries that are involved with our local section. Also, the website is growing and is updated regularly so stop by often. The 2009 KLS Program is listed there as well, however, for the earliest receipt of the KLS-ACS Newsletter, e-mail Brent Montgomery at montgomeryjb@pgdp.usec.com to request the electronic version.

I hope to see you at the Fresh Market Restaurant for Dr. Blackledge's "Glitter as Forensic Evidence" talk," and don't forget to bring a friend!

Regards,

Edie Banner
(270) 809-6626
edie.banner@murraystate.edu

GLITTER as Forensic Evidence



Bob Blackledge

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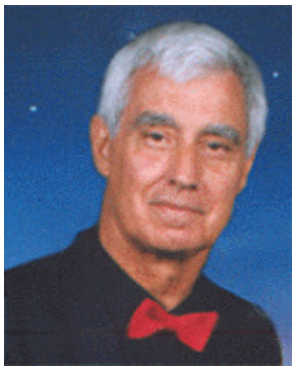

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Reports of his research have been published in the FBI's Law Enforcement Bulletin, the FBI's Crime Laboratory Digest, the Journal of Forensic Sciences, Science & Justice, Forensic Science International, Forensic Science Review, Microgram Journal, and Analytica Chimica Acta. He is the editor for, *"Forensic Analysis on the Cutting Edge: New Methods for Trace Evidence Analysis"*, published by Wiley-Interscience in Aug. 2007.