



CENTRAL ARKANSAS SECTION
AMERICAN CHEMICAL SOCIETY



Program:

Forensic Chemistry in the Private Sector
Charles K. Deak

7:30 PM

Wednesday, September 12, 2001
Arkansas State Crime Lab

ABOUT THE PROGRAM:

The role of the scientist -- particularly the chemist involved in litigation, civil or criminal, - is discussed. Expert witness testimony in court cases is described, including required qualifications and the qualifications process. More interesting or unusual case histories involving the author are discussed in some detail. These case histories include cases involving counterfeit gold coins, product liability, vehicular homicide, domestic cases, and a first degree murder trial. Methods used are discussed, such as atomic absorption for detection of traces for evidential purposes and thin layer chromatography (TLC) for the identification of ballpoint and felt pen inks. Application of microscopy is discussed in conjunction with some cases. The "common sense" approach is emphasized.

ABOUT THE SPEAKER:

Charles Deak earned his bachelor's degree in 1948 in Budapest, Hungary. After spending several years at Paris at the Sorbonne and working on the development of chemical fire-fighting agents, he immigrated to the United States in 1955. Mr. Deak developed analytical procedures for the analysis of secondary metals and alloys. He established and became manager of Analytical Associates in 1973 and its president when it was incorporated in 1979. He specializes in chemical analysis of aerospace metals such as titanium, nickel, and cobalt base superalloys with emphasis on the determination of trace level impurities in these metals and the investigation of failures of metals. He regularly performs forensic and criminalistic testing and has testified as an expert witness in criminal and civil trials in both state and federal courts. He retired after 35 years with Analytical Associates, Inc., and its parent company in 1992 and started C. K. Deak Technical Services, Inc., where he performs consulting and forensic testing.

HOW TO GET TO THE MEETING:

Take 630 West to the Schackelford intersection, and turn right. At the next stop light make a right on Markham St. Crossover the overpass and make a left on Natural Resource Dr. The Arkansas State Crime Laboratory is on the right, and we will meet in the lobby area before the seminar.

DINNER WITH THE SPEAKER:

Dinner with the speaker will begin at 5:30 P.M. at Tony Roma's in Little Rock. Take 630 West to the Schackelford intersection, and turn right. At the next stop light make a left on

Markham St. At the Ford Dealership make another right on Schackleford Dr. This road leads to Tony Roma's on the left.

TOURING THE ARKANSAS STATE CRIME LABORATORY:

Each institution should form a ranked list of interested students and submit to Jeffery Moran for a final selection. At this time the institution will be notified of the selections and be informed of a meeting time and place. All requests should be made by September 5, 2001.

MEETING SCHEDULE:

The remaining programs are planned for 2001:

October 15: Hendrix College, "Science Careers in the Food Industry"

November 13: UALR: "After Oil, What Then? Alternative Sources of Fuels and Chemicals"

SEND YOUR EMAIL ADDRESS TO JERRYM@MAIL.UCA.EDU
AND RECEIVE FUTURE MEETING ANNOUNCEMENTS ELECTONICALLY!!!

FROM THE CHAIR:

I hope everyone had a great summer and is ready for the fall to begin. The Central Arkansas Section of the ACS is in the process of planning many things. This month kicks off our tour speakers for the fall, and we are starting with Charles Deak, a forensic chemist who is continuing the theme "Career Opportunities for Undergraduates". For those interested in Forensic Chemistry, this should be a very interesting day for you. The Arkansas State Crime Laboratory (ASCL) is hosting the speaker in the evening and is planning a tour of the facility earlier that day for interested students. Due to size limitations, the ASCL has requested that we hold the size of the touring group down to approximately 10-15. Therefore, we ask that only interested students (preference will be given to student affiliates) plan to attend the tour.

Our National Chemistry Week Coordinator, Howard Hendrickson, is in the process of planning the events for National Chemistry Week. We are currently trying to find funding to host a special social gathering at the art museum in Little Rock, and we would appreciate your help in finding financial support for our section. A good way to support our section is through the matching grants offered by the National ACS. For every \$2500 gift contributed to our local section over five years, National ACS will match the gift dollar-for-dollar. For example, if every chemistry department of our represented undergraduate schools could budget \$250 per semester for five years, our local section would receive approximately \$35,000. This is a great deal considering that this amount does not even cover the cost of one tour speaker or any of the other activities offered by our local section. I hope everyone considers this as a possibility because this will enable us to continue to grow, reach out to under-represented sectors of chemistry, and to develop programs that will significantly enhance the training of our students and mentors.

-Jeffery H. Moran
Center for Toxicology and Environmental Health, L.L.C.
615 West Markham
Little Rock, AR 72201
Office: (501)-614-2834

Fax: (501) 614-2835
jmoran@cteh.com