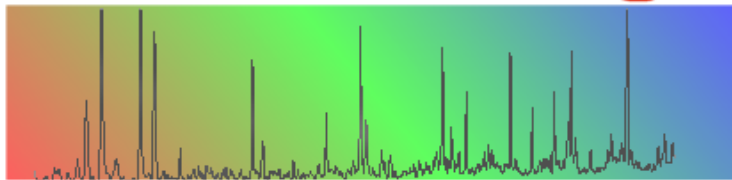




SAS-Chicago



We are introducing linked business cards on the [last page](#) of this flyer. Along with subsidizing the flyer and website costs, we hope they provide an informational service to the section.

October Meeting

Tuesday, October 12, 2004

The October 2004 meeting will be held at the LaMirage Restaurant, located at 3223 Algonquin Rd., Rolling Meadows. See the map on the following page.

Social Hour: 5:30 - 6:30 PM

Dinner: 6:30 PM

Speaker: 7:45 – 9:00 PM

Spectroscopy in Forensic Science

by

A. Karl Larsen, Jr., Ph.D.

Illinois State Police Forensic Science Center - Drug Chemistry Section

Spectroscopy plays an important role in the analysis of forensic cases. The simplest drug case, can utilize ultraviolet Spectrophotometry, which can aid in the preliminary analysis and quantization of drugs. **Mass spectrometry** and **Infrared Spectrophotometry** are used in the identification of these substances from powders, plant materials and pharmaceutical preparations. These instruments are used in the analysis of more complex matrices seen in the toxicology section. There, urine and blood are the typical samples and the concentration of alcohol, or drug and metabolite may be in the parts per million range. **Emission spectroscopy**, **Atomic absorption spectroscopy** and **X-ray diffraction** are often used in the Trace analysis section where the focus of analysis may center on inorganic compounds. Together, these instrumental techniques allow forensic scientists to provide information that may be used in court to tie victims, suspects and crime scenes together. As well, they can be used to eliminate possible suspects by showing that no link can be made.

In this presentation, I will attempt to show ways these above techniques are used in real situations.

Please make your dinner reservations for the upcoming meeting by using the form on our web page < <http://www.sas-chicago.org/Online%20Registration.htm> > , by email at sas.chicago@bigfoot.com or by calling Mary Kaplar at 708-449-5767. Leave your name, company affiliation, a telephone number, the number of reservations and your choice of entree. Please call by noon Friday, Oct. 8th, so that proper arrangements can be made with the LaMirage Restaurant. If you can't attend, cancel by Mon. noon: SAS is charged for no-shows.

Entree choices: NY Strip Steak, Chicken Breast LaMirage, or Fettuccini.

Dinner Cost Members: \$25

Students and Unemployed Members: \$10

Non-members: \$30

Biography of A. Karl Larsen, Jr., Ph.D.

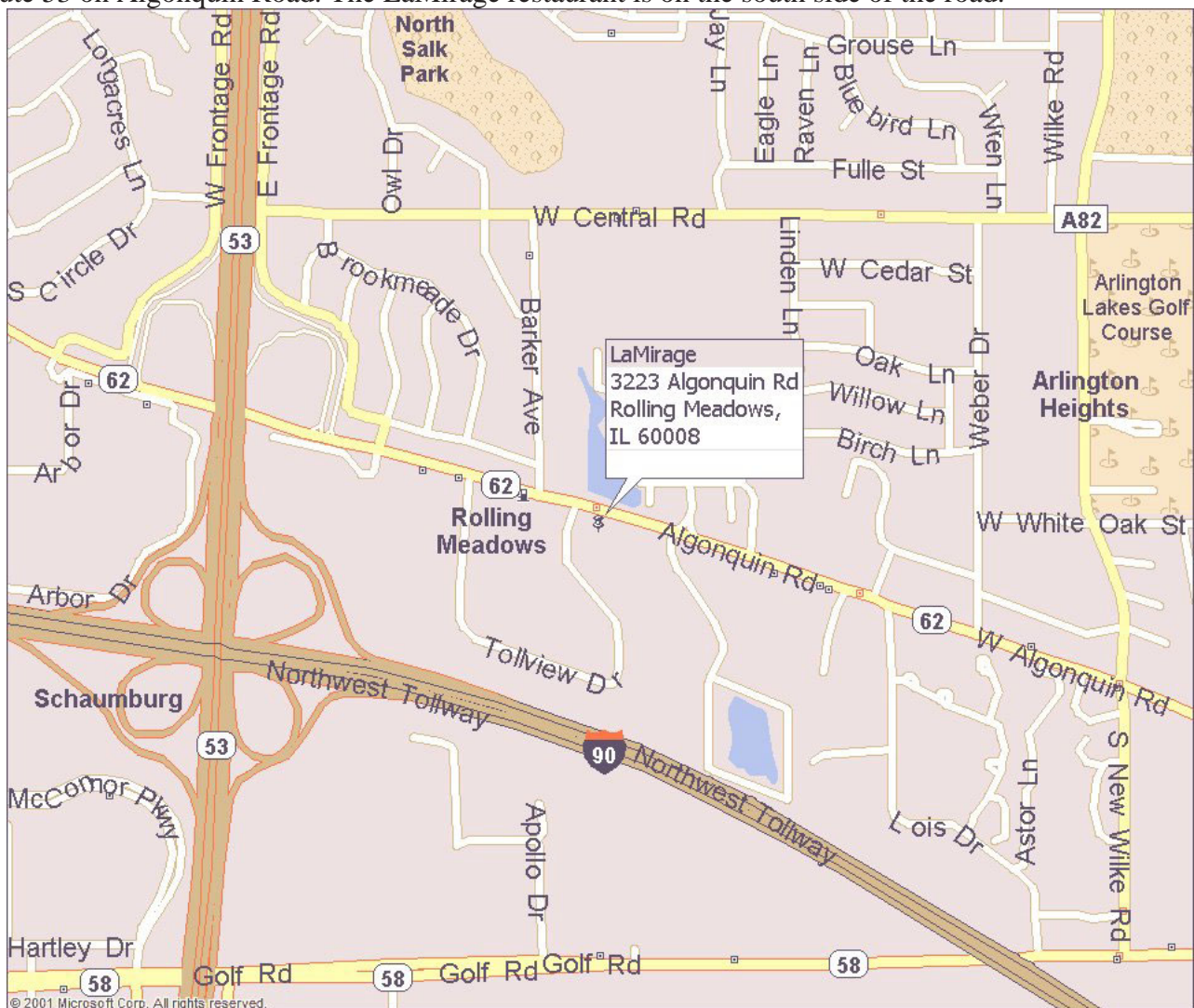
Karl Larsen began working for the Illinois State Police in late 1976. He has a Doctorate in Pharmacodynamics from the University of Illinois at Chicago and a B.A. in Chemistry and Biology from MacMurray College in Jacksonville, IL.

Karl began working in the Illinois State Police Drug Chemistry Section, completing analysis of tablets, capsules and powders for the presence or absence of controlled substances and plant materials for the presence or absence of cannabis or other controlled substances. After his Doctorate, he worked in the toxicology section completing analysis of body fluids for the presence or absence of controlled substances.

In 1999, he began his present position at the Illinois State Police Forensic Science Center at Chicago. There, he aids in research and training of new forensic scientists, and assists in the Master of Science in Forensic Science Program at UIC. Additionally, Karl serves as the technical leader for the Toxicology section.

DIRECTIONS TO THE LA MIRAGE RESTAURANT

[LaMirage](#) is located at 3223 Algonquin Road in Rolling Meadows. It is located about 0.5 mile east of Route 53 on Algonquin Road. The LaMirage restaurant is on the south side of the road.



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Contact Mary Kaplar to get your business card in the next SAS-Chicago section newsletter.

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