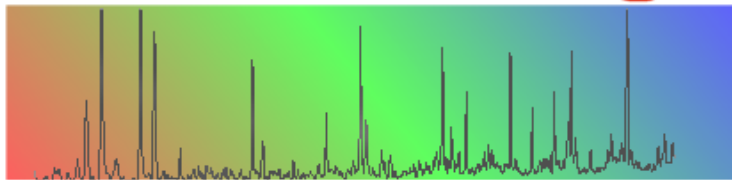




# SAS-Chicago



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## March Joint Meeting with Chicago Chromatography Discussion Group (CCDG) Tuesday, March 15, 2005

The March 2005 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

Speakers: 7:45 – 9:00 PM

## Determination of Non-Metals by Chromatography with Inductively Coupled Plasma Detection

*Presentation by*  
**Dr. Bradley T. Jones**  
(Wake Forest University)

Inductively coupled plasma atomic emission spectrometry (ICP-AES) will be quickly reviewed, with emphasis on instrumentation. Sample introduction techniques (including nebulization, electrothermal vaporization, and liquid chromatography) will be discussed. The myriad of metal speciation applications employing HPLC-ICP systems will be outlined. By comparison, the relatively few non-metal applications of HPLC-ICP will be examined.

A novel HPLC carbon emission detector will be discussed. While the carbon emission detector will universally detect any organic compound, it will discriminate against species with high molar absorptivity that may be present at low concentration. **With this system, an ICP-AES is used to detect carbon-containing compounds following separation by high performance liquid chromatography.** In one application, a calcium-form ligand exchange column with distilled and deionized water as the mobile phase is used to separate carbohydrates. The carbon emission detector provides the same detection limit for any compound with a similar mass percent of carbon, whether or not the compound exhibits appreciable absorption characteristics.

To demonstrate the utility of the carbon emission detector, three sugars (glucose, fructose, and sucrose) are determined in apple, cranberry, and orange juice. In a second application, the HPLC-ICP system with carbon emission detection is used to prepare a single calibration curve that is useful for multiple analytes.

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](mailto: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, Mar. 11th**, 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, Retired and Unemployed Members: \$10

Non-members: \$30

# Biography

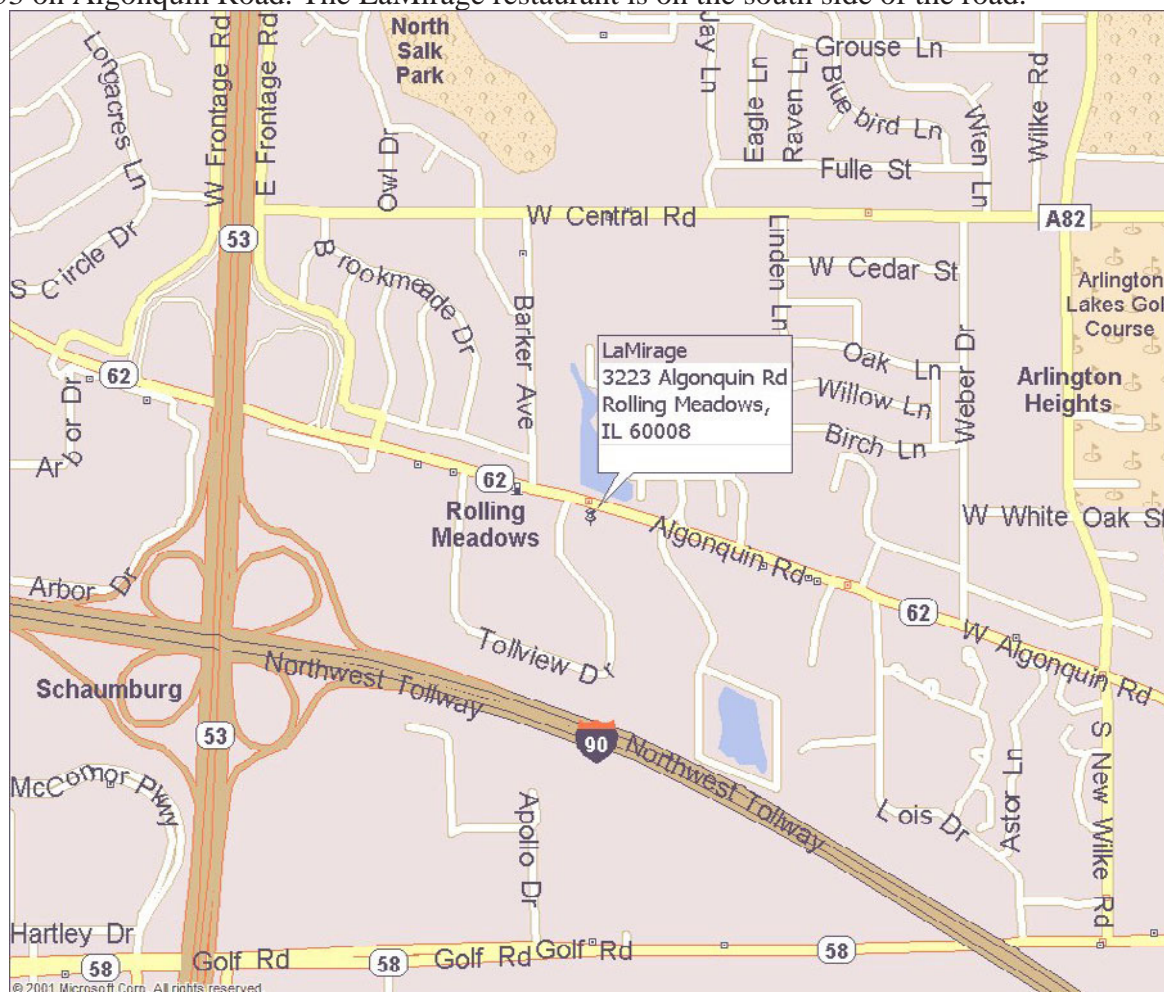
Dr. Bradley T. Jones is a professor and chair in the chemistry department at Wake Forest University. He received a B.S. from Wake Forest University and a Ph.D. in analytical chemistry from the University of Florida. Research interests include instrument design and method development for simultaneous multi-element analyses; design and application of portable tungsten coil atomic spectrometers; high performance liquid chromatography with inductively coupled plasma detection; tungsten coil electrothermal vaporization for inductively coupled plasma spectrometry; method development for the determination of metals in clinical samples. He has 66 publications.

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## 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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