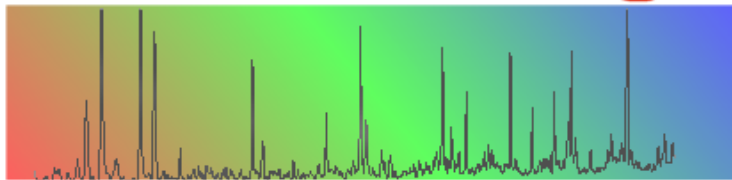




# SAS-Chicago



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Please visit our linked business cards on the [last page](#) of this flyer.

## February Meeting

Tuesday, February 8, 2005

The February 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

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### Solid-State NMR Spectroscopy: Principles and Practices

*Presentation by*

**Robert E. Botto**

(Argonne National Laboratory)

A basic introduction to solid-state NMR spectroscopy and its application in the areas of biochemistry/medicine and inorganic mineralogy will be presented.

Introductory material will include a discussion of important interactions affecting NMR line shapes, e.g. dipolar, chemical shift and quadrupolar interactions; as well as methods such as cross polarization and ‘magic-angle’ spinning (MAS) for obtaining high-resolution NMR spectra. More advanced techniques, i.e. “dipolar recoupling” and “MQ/MAS”, will be discussed in their application to illuminating the structure and self-assembly of Alzheimer’s b-amyloid fibrils and the diagenesis (the process of chemical and physical change in deposited sediment during its conversion to rock) of aluminosilicate minerals.

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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, Feb. 4th, 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.**

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Dinner Cost Members: \$25

Students, Retired and Unemployed Members: \$10

Non-members: \$30

## Biography

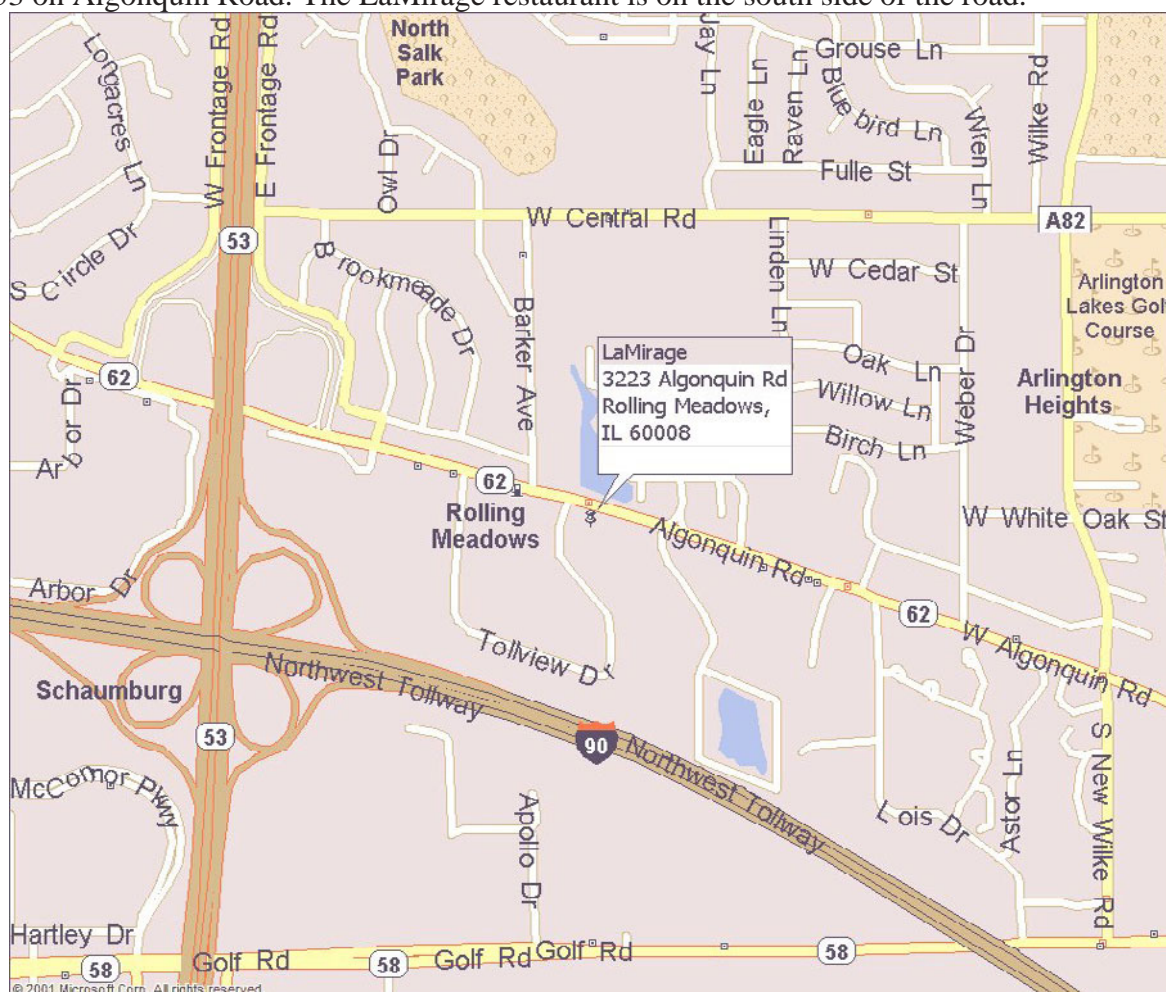
Robert E. Botto has been a research chemist/spectroscopist in the Chemistry Division at Argonne National Laboratory for the past 23 years. His research has involved the use of solid-state NMR spectroscopy, magnetic resonance imaging (MRI), and x-ray microscopy in the characterization of fossil fuel materials, structural and biopolymers and catalysts. He is currently Associate Editor of Solid State Nuclear Magnetic Resonance. He has published 137 scientific articles, has been invited to present numerous scientific papers at national and international meetings, and has organized numerous national/international symposia. He is a member of the Sigma Xi Honorary Research Society; a Fellow of the Ampere Society, where he serves as Assistant Secretary General of the Division of Spatially Resolved Magnetic Resonance; and also serves as the Secretary and Editor of the Fuel Chemistry Division of the American Chemical Society.

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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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(Click on card or URL to link to Sponsor's web site)

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