



# SAS Chicago

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## *November Meeting*

Tuesday, November 11, 2003

The November 2003 meeting will be held at the La Mirage, located at 3223 Algonquin Rd., Rolling Meadows. See the map on the back for more details. Entree choices: *NY Strip Steak, Chicken Breast LaMirage, or Fettuccini.*

Social Hour: 5:30 PM

Dinner: 6:30 PM

Speaker: 7:45 PM

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## **LC-NMR: An Overview of the Technique, Applications, and Limitations**

By Roy H. Bible, Jr.

Although LC-NMR was used as early as 1978, it has only become a viable technique in recent years with the introduction of higher field magnets and improved hardware and software. An overview of the LC-NMR technique and an outline of the considerations required in both the LC and the NMR operations will be presented. Specific examples will be given to illustrate some of the limitations. Two of the major problems are: (1) changes in the retention time can result in changes in the chemical shifts because of the variation in the solvent composition during gradient LC separations, and (2) sufficient amounts of compounds in selected LC peaks are difficult to deliver to the NMR probe. A recent development that helps to overcome these two problems will be discussed.

Please make your dinner reservations for the upcoming meeting by using the form on our web page [http://www.sas-chicago.org/Reg\\_Form.htm](http://www.sas-chicago.org/Reg_Form.htm), by email at [sas.chicago@bigfoot.com](mailto:sas.chicago@bigfoot.com) or by calling Mike Jankowski (847)970-5061. Leave your name, company affiliation, a telephone number where you can be reached in the event that the meeting is cancelled (remember 9/11/01 & Feb. 26, 2002), the number of reservations and your choice of entree on the tape. Please call by noon Friday, Nov. 7th, so that proper arrangements can be made with the La Mirage Restaurant. If you can't attend, cancel by Mon. noon: SAS is charged for no-shows.

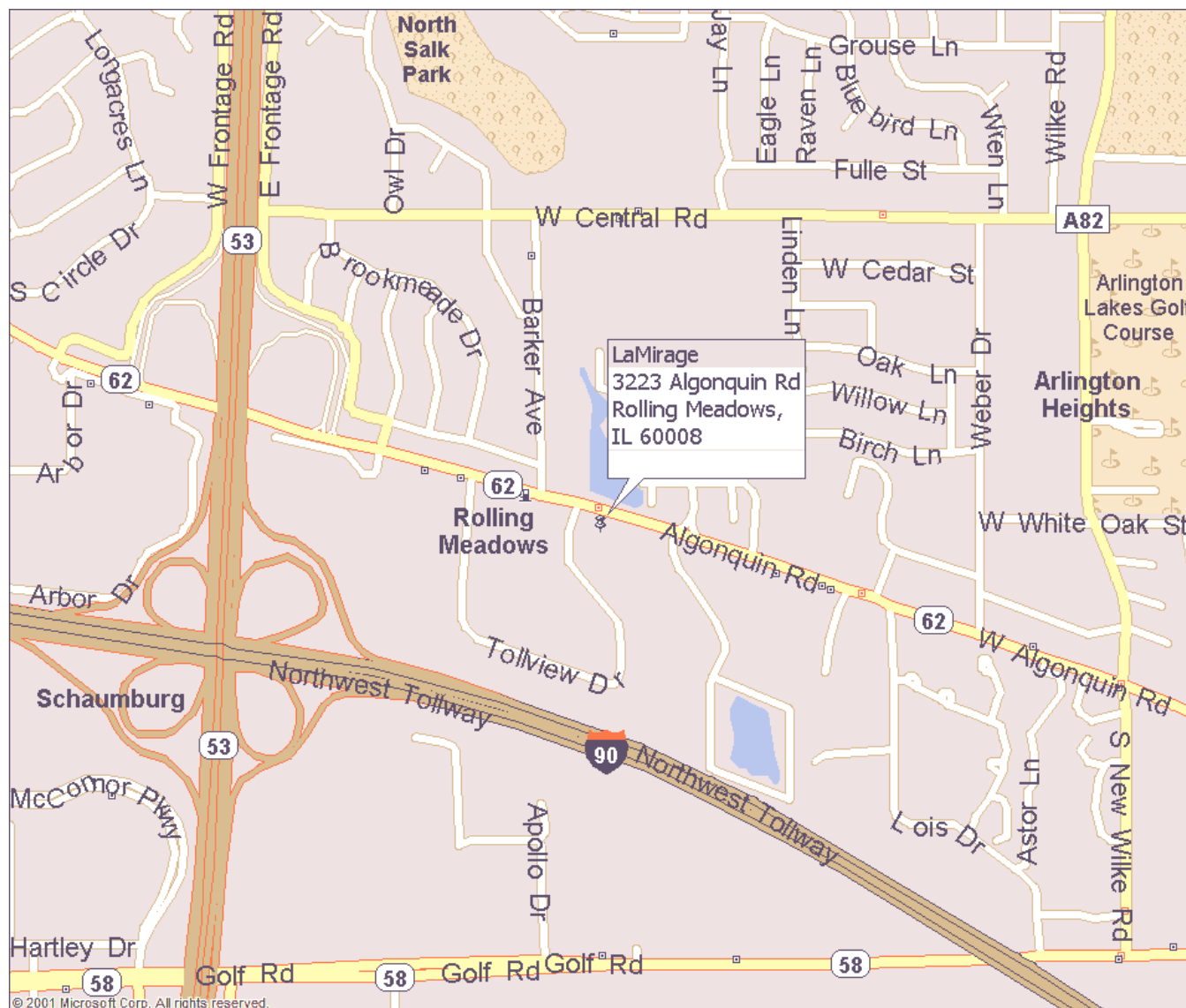
**Dinner Cost**  
**Members: \$25**

**Students and Unemployed Members: \$10**

**Non-members: \$30**

## DIRECTIONS TO THE LA MIRAGE RESTAURANT

La Mirage is located at 3223 Algonquin Road in Rolling Meadows. It is located about 0.5 mile east of Route 53 on Algonquin Road. The La Mirage restaurant is on the south side of the road.



### Speaker Bio:

Roy Bible received his Ph. D. from the University of Illinois at Urbana-Champaign, and did his undergraduate work at Virginia Tech, the University of Maine, and Virginia Military Institute. Except for the “change in control”, in November he would be completing his 52nd year at G. D. Searle/Monsanto/Pharmacia/Pfizer where he most recently was a Senior Research Fellow.

He was trained as an organic chemist, and worked for 12 years as a bench medicinal chemist at Searle. In the early 60's his interest in structural elucidation of organic molecules led him into NMR. He published two of the very early books on the interpretation of NMR spectra, both of which were translated into Japanese and one also into Russian. He has co-authored an audio short course for the American Chemical Society and has taught in over 100 NMR short courses, 59 of which were sponsored by the American Chemical Society. He holds 26 patents and has published 37 peer-reviewed papers.

He has been honored with the Distinguished Service Award by the Chicago Section of the ACS, with the Merit Award by the Chicago Technical Societies, with the Honor Scroll by the Illinois Institute of Chemists, and with a bronze plaque dedicating an NMR suite to him by Pharmacia. He is a charter member and first chairman of the Virginia Tech Chemistry Department Advisory Council. Since 1993 he has been an Adjunct Professor at UIC.

He is a past president of the Chicago Chemist Club and Past Chairman of the Chicago Section of the ACS. He was recently honored for 40 years of service on the National Council of the ACS.

His hobbies include hiking, lapidary and silversmithing, photography, landscape painting, and electronics of all types.