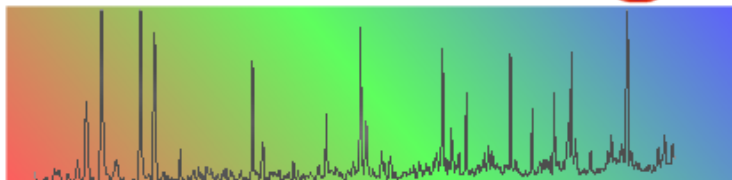




SAS-Chicago



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

October Meeting

Tuesday, October 10, 2006

The October 2006 meeting will be held at the Angelo's Restorante & Banquets, located at 247 N. York Rd., Elmhurst, IL 60126. See the map on the following page.

Social Hour: 5:30 - 6:30 PM

Dinner: 6:30 PM

Speaker: 7:30 – 9:00 PM

Raman Microanalysis without an Optical Microscope: Bringing Raman Spectroscopy to the SEM and AFM Microscope

by

Richard Bormett, Ph. D.

Renishaw Incorporated

Advances in Raman instrumentation and the ease of use of modern micro-Raman instruments have allowed Raman microscopy to become a routine method of chemical analysis in an optical microscope. However, Raman imaging in an optical microscope remains a time intensive spectroscopic method it is generally not well suited to surveying large areas where there are potentially unknown constituents. Raman spectroscopy can be incorporated into non-optical microscopes, for example scanning electron microscopes and atomic force microscopes. The scanning electron microscope and atomic force microscope support a number of "fast" chemical and topographical contrast methods, including energy dispersive x-ray analysis and cathode luminescence and fluorescence that can greatly simplify area composition distribution analysis.

Examples and advantages of chemical/topographical imaging using non-optical microscopes to identify regions of difference/interest for Raman chemical analysis will be shown

Please make your dinner reservations for the upcoming meeting by email at sas.chicago@bigfoot.com, by using the form on our web page < <http://sas-chicago.org/Online%20Registration%20at%20Angelo.htm> > or by calling Mike Jankowski at 847-970-5061. Leave your name, company affiliation, a telephone number, the number of reservations and your choice of entree. Please call by noon Friday, Oct. 6th, so that proper arrangements can be made with the restaurant. If you can't attend, cancel by Mon. noon: SAS is charged for no-shows.

Entree choices: 6 oz Ribeye Steak, Chicken Florentina Spinach, or Pasta with Garlic and Oil Fried Vegetables.

Dinner Cost Members: \$25

Students and Unemployed Members: \$10
(No Shows may be Billed)

Non-members: \$30

Biography of Richard Bormett, Ph. D.

Richard Bormett has been with Renishaw Inc, Hoffman Estates IL, since 1996 and the Renishaw Business Manager for Raman products since 2002. Richard earned his Ph.D. in Analytical Chemistry in 1996 from the University of Pittsburgh working with Professor Sanford Asher on new instrument technology for deep UV Raman spectroscopy and vibrational circular dichroism. Richard's interest in vibrational spectroscopy developed during his brief time at UW-Madison's synchrotron radiation center studying the chemistry of photoresists for the Center for x-ray Lithography.

DIRECTIONS TO ANGELO'S RESTORANTE & BANQUETS

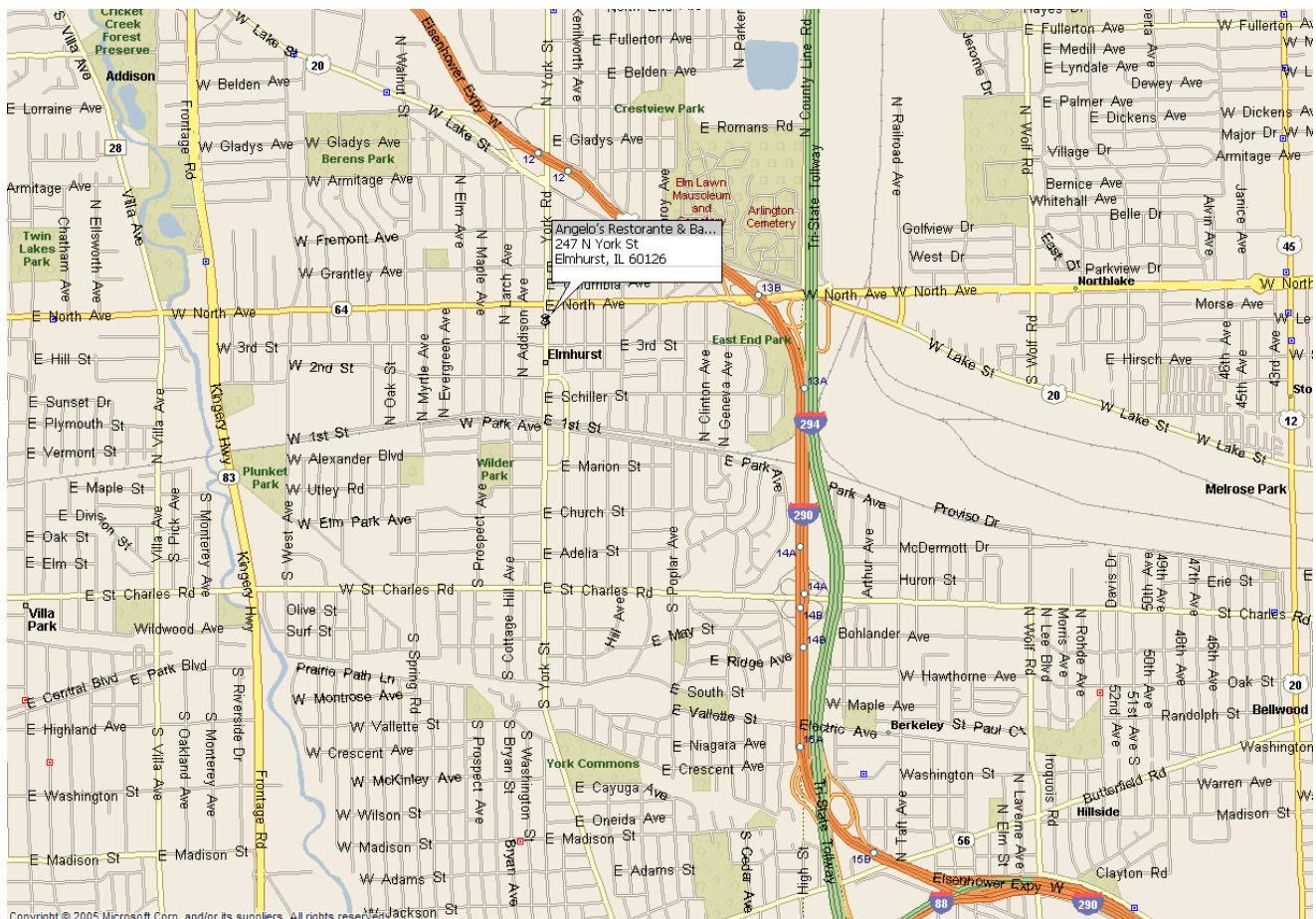
247 N York St, Elmhurst, IL 60126; Phone: 630-833-2400

Angelo's Restorante and Banquets is located in Elmhurst less than one block south of North Avenue (IL-64) on York St. on the east side of the street.

From north: Take I-294 (Tri-State) exit I-290 West. Immediately exit onto IL-64 West (North Avenue) Go to York St. and turn left. Proceed to restaurant.

From northwest: Take I-290 to the York Road exit and turn left. Proceed to restaurant.


From south: Take I-290 exit IL -64 West (North Avenue) Go to York St. and turn left. Proceed to restaurant.



Index of Newsletter Sponsors

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

Chip McCauslin
Sales Representative-Atomic Spectroscopy
Analytical Chemist
Chicago Area
Optical Spectroscopy Instruments



Varian Analytical Instruments
2700 Mitchell Drive
Walnut Creek, CA 94598
Phone: 800.926.3000 Ext. 3025
Fax: 925.945.2360
http://www.varianinc.com
chip.mccauslin@varianinc.com

www.varianinc.com

[email](mailto:chip.mccauslin@varianinc.com)



† **Jeff Kukuk**
Senior Sales Engineer
Inorganic Analysis

† PerkinElmer, Inc.
2000 York Road, Suite 132
Oak Brook, IL 60523
Phone: 800 762-4000 ext. 132
Fax: 630 556-4523
Cell: 630 222-8921
jeff.kukuk@perkinelmer.com
www.perkinelmer.com

www.perkinelmer.com

[email](mailto:jeff.kukuk@perkinelmer.com)



† **Steve Bouffard, Ph.D.**
Technical Sales Specialist
FTIR, UV/Vis/NIR, GC, GC/MS
HPLC, DSC, TGA, TMA and DMA

† **PerkinElmer Life and Analytical Science**
2000 York Road, Suite 132
Oak Brook, IL 60523
Phone: (800) 762-4000
Fax: (203) 944-4914
Steven.Bouffard@perkinelmer.com
www.perkinelmer.com

www.perkinelmer.com

[email](mailto:Steven.Bouffard@perkinelmer.com)



For the best in nebulizers, sample introduction components, torches, and spray chambers, call:
1-800-MEINHARD


Meinhard Glass Products

Geoff Coleman, Ph.D., Vice President

700 Corporate Circle, Suite A
Golden, Colorado 80401-5636 USA
Tel: 303.277.9776 Fax: 303.216.2649
gcoleman@meinhard.com www.meinhard.com

www.meinhard.com

[email](mailto:gcoleman@meinhard.com)



'Tools for Discoveries of Life'

Rina K. Dukor, Ph.D.
President / CEO

Tel: (847) 487-5500
Fax: (847) 487-5544

Biotoools, Inc.
950 N. Rand Rd. Unit 123
Wauconda, IL 60084 USA

Toll Free: (866) BTOOLS1
E-mail: rkdukor@btools.com
Website: www.btools.com

www.btools.com

[email](mailto:rkdukor@btools.com)



ELECTRON CORPORATION

5225 Verona Road
Madison, WI
53711-4495

Andrew M. Haefner, Ph.D.
Sales Engineer
Molecular Spectroscopy

(800) 648-5456
(815) 479-0127 fax
(815) 479 0887 direct

Nicolet FT-IR, Raman
FT-NIR, and Microscopy

andrew.haefner@thermo.com www.thermo.com

www.thermo.com

[email](mailto:andrew.haefner@thermo.com)

Renishaw Inc
5277 Trillium Blvd.
Hoffman Estates, IL 60192
Tel (847) 286-9953 Fax (847) 286-9974
www.renishaw.com



apply innovation

Tim Prusnick
Midwest Sales Manager - Spectroscopy Products Division
Email timothy.prusnick@renishaw.com



www.renishaw.com/spectroscopy

[email](mailto:timothy.prusnick@renishaw.com)

JERRY SHKOLNIK
Executive Sales Representative
Chicago, IL



TELEDYNE INSTRUMENTS
Leeman Labs
A Teledyne Technologies Company

6 Wentworth Drive
Hudson, New Hampshire 03051
Phone: 847.478.0452 Fax: 847.478.0467
Toll Free: 1.800.634.9942 Cell: 603.493.6176
E-Mail: JShkolnik@Teledyne.com
www.LeemanLabs.com

www.leemanlabs.com

[email](mailto:JShkolnik@Teledyne.com)

Your company offering a seminar that would be of interest to our membership? Contact Mary Kaplar at mkaplar@bodycoteusa.com to find out how the Chicago SAS can help spread the word.