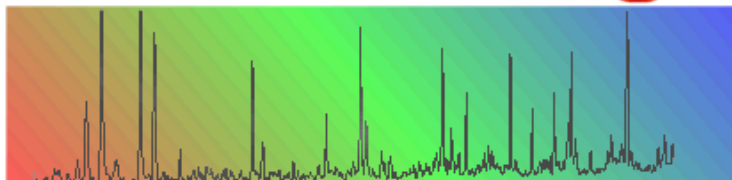




SAS-Chicago



March Meeting

Tuesday, March 16, 2010

The March meeting will be held at the Holiday Inn, located at 1000 Busse Road, Elk Grove Village, IL 60007. See the map on the following page.

Social Hour: 5:00 PM

Dinner: 6:00 PM

Speaker: 7:00 PM

Science and Technology Challenges in National Security: Proliferation and Unconventional Weapons

by

Vahid Majidi, Ph.D.

Assistant Director, Weapons of Mass Destruction Directorate
Federal Bureau of Investigation

As recently as the past decade, most people were unfamiliar with the term “weapons of mass destruction (WMD)”; albeit the origin of this phrase can be traced back to more than half a century ago. Over the last few years, the public has been exposed to countless reports and an abundance of media coverage on WMD, resulting in a significant concern over public security, safety and health.

The FBI’s WMD mission is critical and essential for our country’s public safety and national security. The first step toward understanding what we do is to define WMD, which is based on legal statutes. For our purpose, WMD is defined as a weapon containing chemical, biological, radiological or special nuclear materials designed to cause death or injury. The threat of WMD is a complex issue; not just in the discussion of how to detect, deter, and defend against their use, but also in the difference between the devices, technology, and processes needed to obtain and use these weapons. Considering the unique scientific and investigative challenges posed by weapons of mass destruction, the WMD program at the FBI was created to develop and execute an integrated approach to deny access to WMD materials and technologies, prevent WMD attacks, and respond to WMD threats and incidents.

A critical and challenging component of this mission is to detect and disrupt the acquisition or use of WMD. In addition, preparedness for these events and our ability to respond to WMD incidents present a dilemma in that chemical, biological, radiological, and nuclear materials/events are distinctive in character, response requirements, and potential consequences. Hence, significant expertise is required to effectively support the FBI’s responsibility and to create an organizational structure that ensures a systematic, coordinated, and effective national approach to preventing and responding to the threat of WMD.

In this presentation the roles, responsibilities and capabilities of the FBI will be highlighted. Additionally, the role of scientific analysis and approach will be discussed with regard to our daily case work.

Please make your dinner reservations for the upcoming meeting by email at SAS.Chicago1@gmail.com, using our online form <http://www.sas-chicago.org/Online%20Registration%20at%20Elk%20Grove%20Holiday%20Inn%20.htm> or by calling Slav Stepanovich at 847-421-2056. Leave your name, company affiliation, a telephone number and the dinner selection. Please call by noon Friday, March 12th, so that proper arrangements can be made with the restaurant. If you can’t attend, cancel by Friday.

Entree choices: London Broil, Chicken Marsala, or Vegetarian Lasagna.

Dinner Cost Members: \$30

Students and Unemployed Members: \$10

Non-members: \$35

Biography

Dr. Majidi was appointed by Director Mueller to serve as the Assistant Director for the Weapons of Mass Destruction Directorate. The Directorate is responsible for coordinating and managing FBI's equities, activities, and investigations involving WMD. Specifically, the Directorate is charged with developing and executing an integrated approach to deny access to WMD materials and technologies, prevent WMD attacks, and respond to WMD threats and incidents.

Dr. Majidi comes to FBI from Los Alamos National Laboratory (LANL), where he served as the Chemistry Division Leader. The Chemistry Division at LANL is a premier scientific organization with extensive research capabilities essential to national security and civilian research programs. Chemistry Division's strategic programs included nuclear weapons-related research, non/counter-proliferation, homeland security, isotope science, applied energy, and nanoscale science and engineering.

In 2003, Dr. Majidi was appointed by the Deputy Attorney General to serve as the Chief Science Advisor to the Department of Justice. Dr. Majidi was detailed from LANL to the Department of Justice, and he was responsible for coordinating science and technology policy among the Department's component agencies and with state and local law enforcement entities. He served as the lead Department representative for biosecurity, pathogen forensics, DNA technologies, biometrics programs and as the liaison to the scientific community.

Prior to his career at LANL, Dr. Majidi was a tenured associate professor of chemistry at the University of Kentucky. His research activities were focused on analytical spectroscopy and gas-phase chemistry. Dr. Majidi earned his BS degree in chemistry from Eastern Michigan University and his PhD degree from Wayne State University. After his graduate work, he spent two years as a postdoctoral research fellow at the University of Texas (Austin).

Dr. Majidi has published numerous scientific articles in peer-reviewed journals, and he has served on editorial boards for several international journals.

Index of Newsletter Sponsors

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



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](#)



† **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](#)



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

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

andrew.haefner@thermo.com

5225 Verona Road
Madison, WI
53711-4495

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

www.thermo.com

www.thermo.com

[email](#)



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

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

Tel: (847) 487-5500
Fax: (847) 487-5544
Toll Free: (866) BTOOLS1
E-mail: rkdukor@btools.com
Website: www.btools.com

www.btools.com

[email](#)

The SAS Chicago **2010 Election** will be conducted at the March 16, 2010 Meeting

The following candidates have been nominated for the
SAS Chicago Governing Board Offices of Chair Elect and
Secretary:

Chair Elect: Slav Stepanovich
Secretary: Alyison Leigh


The SAS Chicago will present a **Workshop on Polymer
Characterization** on May 14, 2010 at the
McCrone Group facility in Westmont, IL

Preliminary Agenda:

Particle Sizing - **Eric Olson**, Particle Technology Labs
GPC/SEC - **Tom Dent/Michael Kamerlink**, Varian Inc.
MALDI-ToF - **Mark Arnould, Ph.D.**, Xerox
NMR - **Peter Rinaldi, Ph.D.**, University of Akron
FTIR/Raman - **Fred LaPlant, Ph.D.**, 3M Corp.
Rheology - **Greg Kamykowski, Ph.D.**, TA Instruments

Index of Newsletter Sponsors

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



Jerry Shkolnik
Sales Representative

Questron Technologies Corp.
Chemistry – With Precision

3293 Epstein Circle
Mundelein, IL 60060

Tel: 847-566-2512
Cell: 847-714-4952
E-Mail: jerry@qtechcorp.com
Web: www.qtechcorp.com

www.qtechcorp.com

[email](mailto:jerry@qtechcorp.com)

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



RENISHAW
apply innovation

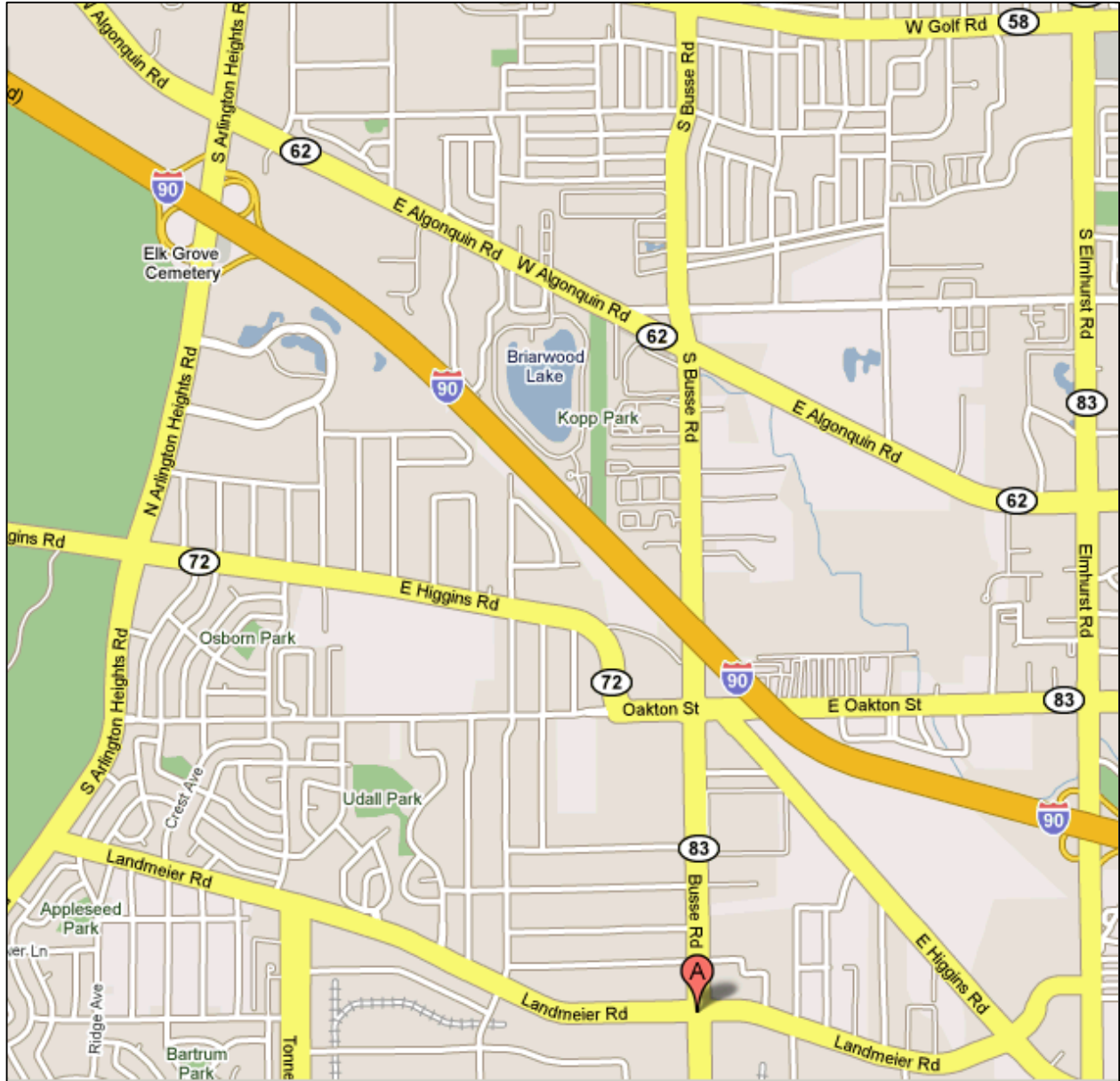
Tim Prusnick
Midwest Sales Manager - Spectroscopy Products Division
Email timothy.prusnick@renishaw.com



www.renishaw.com/spectroscopy

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

Elk Grove Holiday Inn, 1000 Busse Road, Elk Grove Village, IL, Phone 847-437-6010



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)