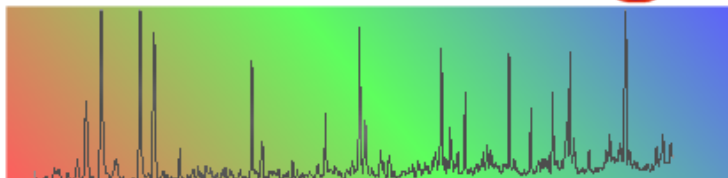




SAS-Chicago



March Meeting

Wednesday, March 7, 2012

The March 2012 meeting will be held at the Holiday Inn, located at 1000 Busse Road, Elk Grove Village, IL 60007. See the map on the last page.

Social Hour: 5:30 PM

Dinner: 6:30 PM

Speaker: 7:30 PM

Advanced Spectral Imaging for Non-Invasive Characterization and Long-Term Preservation of Cultural Heritage Materials

Fenella G. France, Ph.D., MBA FAIC

*Chief, Preservation Research and Testing Division
Library of Congress*

Hyperspectral imaging was originally developed for remote sensing and astronomical applications, and adaptations of this technology have been of great benefit to the preservation of cultural heritage. This customized spectral imaging system has been used as a tool for non-invasive characterization of cultural heritage, allow the collection of chemical identification information about materials without sampling, a critical factor for cultural heritage materials.

A range of case studies will be utilized to discuss the challenges associated with characterizing cultural heritage materials and the creation of a standardized data set for preservation scientists and scholars. These will include maps, historic manuscripts in US history, and representative manuscripts from other cultures including Portolan Charts, L'Enfant Plan of Washington D.C., Jefferson's handwritten draft of the Declaration of Independence, and James Madison debate papers. Modern collection case studies include Herblock drawings and political cartoons, and H.R. Haldemann papers from the Nixon tape erasure investigations. The objects illustrate non-invasive characterization of colorants and substrates, in addition distinguishing deterioration, and detection of non-visible changes due to exhibition and storage. The imaging program includes the development of a spectral reference database, and the integration of data from other non-invasive analytical techniques, to create a full analytical mapping of objects for non-destructive analyses of collection materials.



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**, the **number of reservations** and **your choice of entree**. Please call by **noon Monday, March 5th**, so that proper arrangements can be made with the restaurant. Credit card payments must be made online at <sas-chicago.bbnw.org> prior to the meeting. Only payment by cash and check will be accepted at the meeting. Contact us if you can't attend; the SAS is charged for no-shows.

Entree choices: Rib Eye Steak, Roasted Chicken, Pasta Primavera, or Caribbean Tilapia

Dinner Cost Members: \$30

Students and Unemployed Members: \$10

Non-members: \$30

Fenella G. France

Fenella is Chief of the Preservation Research and Testing Division at the Library of Congress. She received her Ph.D from Otago University, New Zealand and has research interests that include advanced non-invasive and spectral imaging technologies, as well as anoxic and other storage and exhibition environments for “Top Treasures” such as the Waldseemüller 1507 Map, draft of the Declaration of Independence, drafts of the Gettysburg address and others. An international specialist on polymer aging, she focuses on environmental damage to cultural objects – both traditional and modern media issues. Dr. France was the research scientist for the Star-Spangled Banner project at the Smithsonian Institution’s National Museum of American History, and has worked as research scientist on the preservation of World Trade Center artifacts, pre-Columbian mummies and textiles, Ellis Island Immigration Museum, and other cultural heritage institutions. She serves on a range of standards and professional committees for both textiles and cultural heritage preservation, as well as the development of lighting standards for preservation.

Index of Newsletter Sponsors

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

Thermo
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](#)

Chip McCauslin
Sales Representative-Atomic Spectroscopy
Analytical Chemist
Chicago Area

Optical Spectroscopy Instruments



Agilent Technologies
2700 Mitchell Drive
Walnut Creek, CA 94598

Phone: 800.926.3000 Ext. 3025
Fax: 925.945.2360

Agilent Technologies

http://www.agilent.com
chip.mccauslin@agilent.com

www.agilent.com

[email](#)

HORIBA
Scientific



Michael Oweimrin
Sales Engineer

HORIBA Jobin Yvon Inc.
3880 Park Avenue, Edison, NJ 08820-3012 USA
Toll-free: 1-866-562-4698
Tel: +1-732-494-8660 Ext. 587 Fax: +1-732-549-5125
E-mail: michael.oweimrin@horiba.com http://www.horiba.com/scientific
Mobile: +1-908-209-6762

Automotive Test Systems | Process & Environmental | Medical | Semiconductor | Scientific

Explore the future **HORIBA**

www.horiba.com/scientific


[email](#)

MEINHARD®

Geoff Coleman, Ph.D.
President

700 Corporate Circle, Suite L
Golden, CO 80401-5636 USA
Tel: 1.303.277.9776
Fax: 1.303.840.3270
Email: gcoleman@meinhard.com
www.meinhard.com

An Elemental Scientific Company

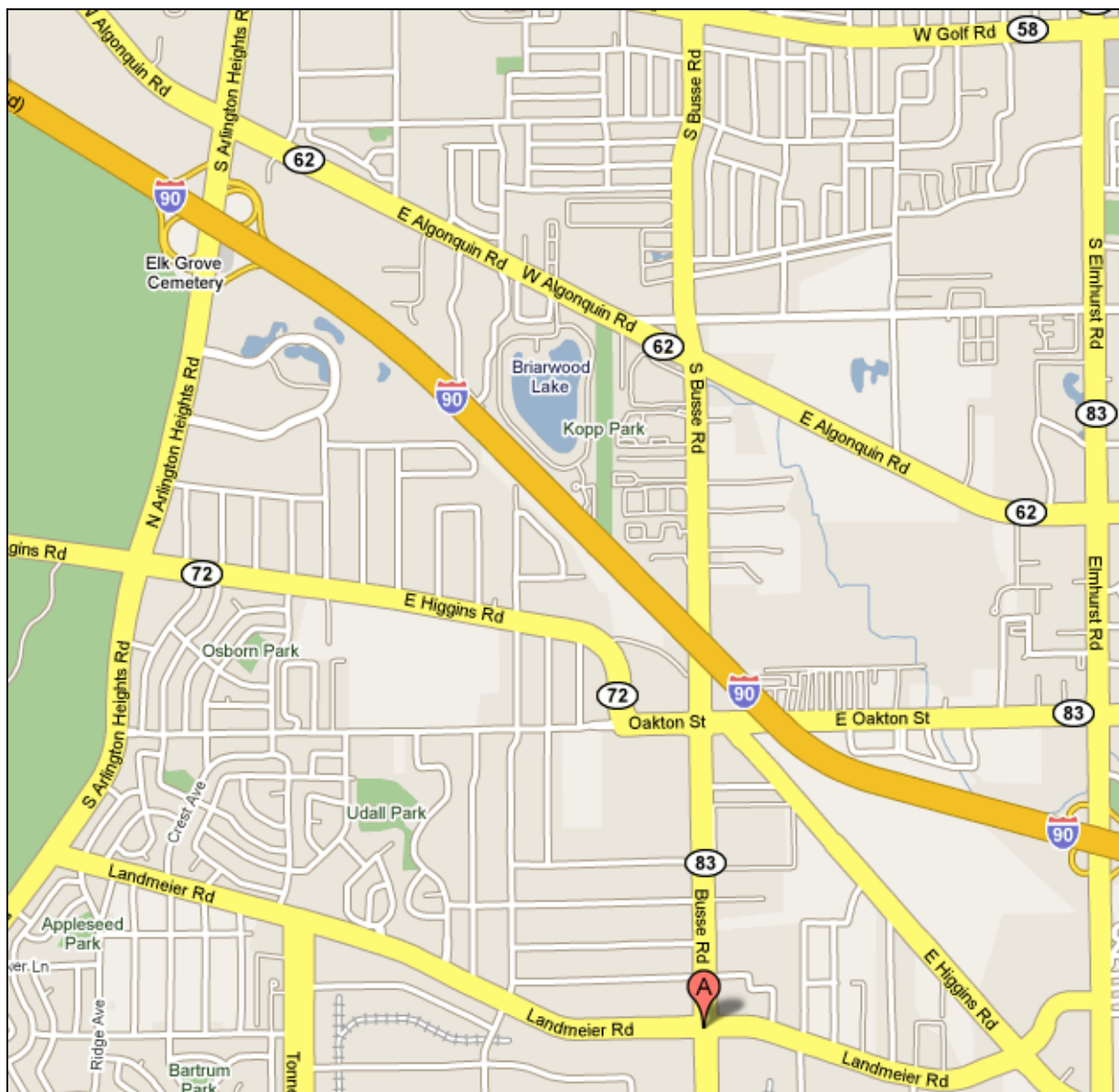


Sample Introduction Technology | ICP | ICP-MS

www.meinhard.com

[email](#)

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



Index of Newsletter Sponsors



Rina K. Dukor, Ph.D.
President

Bio Tools, Inc.
17546 Bee Line Highway (SR 710)
Jupiter, FL 33458 USA

Tel: (561) 625-0133
Fax: (561) 625-0717
Toll Free: (866) BTOOLS1
E-mail: rkdukor@btools.com
Website: www.btools.com

www.btools.com

[email](mailto:rkdukor@btools.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)