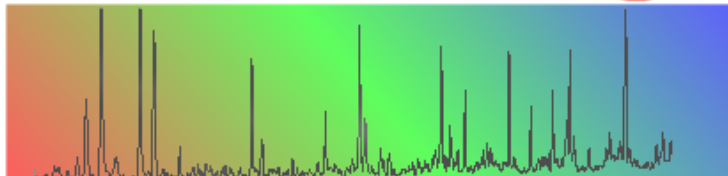




# SAS-Chicago



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## October Meeting

Tuesday, October 6, 2009

The October 2009 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: 5:30 PM

Dinner: 6:30 PM

Speaker: 7:30 PM

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### The Elemental Analysis Facility at the Field Museum: Modern techniques for Ancient Artifacts

by

**Laure Dussubieux, Ph.D.**  
*The Field Museum, Chicago, IL*

The Elemental Analysis Facility includes a scanning electron microscope with an energy dispersive spectrometer (SEM-EDS) and a laser ablation – inductively coupled plasma – mass spectrometer (LA-ICP-MS). In 2007, this existing equipment was complemented by a second laser ablation system equipped with an adaptable chamber for the analysis of large objects and of two portables XRF, one of these instruments being dedicated to the need of the conservation staff and the second one being used in the field at archaeological excavation sites.

The EAF serves the Field Museum community as well as scholars and students from Universities from the Chicago area, the Midwest and throughout the world. The EAF constitutes a unique teaching tool allowing hands-on experiments on a wide range of artifacts from the Museum collections for undergraduate and graduate students interested in the characterization of archaeomaterials. The results of the research at the EAF educate hundreds of thousands of school children and millions of visitors annually through the museum's exhibition and public education programs.

This facility is used to determine the composition, including major, minor and trace elements of a large range of materials in a non-destructive way to address a wide range of questions related to the archaeology of cultural production, interaction and exchange in South America, Mesoamerica, Africa, Oceania and Asia and advancing the cause of material conservation of The Field Museum's renowned anthropology collections, among many others.

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Please make your dinner reservations for the upcoming meeting by email at [sas.chicago@bigfoot.com](mailto:sas.chicago@bigfoot.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 Friday, October 2nd**, so that proper arrangements can be made with the restaurant. If you can't attend, cancel by Friday noon: SAS is charged for no-shows.

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

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Dinner Cost Members: \$30

Students and Unemployed Members: \$10


Non-members: \$35

## Biography of Laure Dussubieux

Laure Dussubieux is the Manager of the LA-ICP-MS Laboratory in the Department of Anthropology at the Field Museum of Natural History. Prior to joining the Field Museum in 2002, she served as a Post-doctoral fellow for two and half years at the Smithsonian Center for Materials Research and Education (now MCI). She earned her PhD. in Chemistry from the Université d'Orléans, France. Her research interest includes analytical techniques, such as Inductively Coupled Plasma – Mass Spectrometry (ICP-MS) in association with Laser Ablation (LA), Fast Neutron Activation Analysis, X-Ray Fluorescence, SEM-EDS, X-Ray Diffraction and IR Spectroscopy. She studies ancient materials (glass, glaze, obsidian, ceramic, gold and copper alloys) with a focus on ancient glass from South and Southeast Asia.

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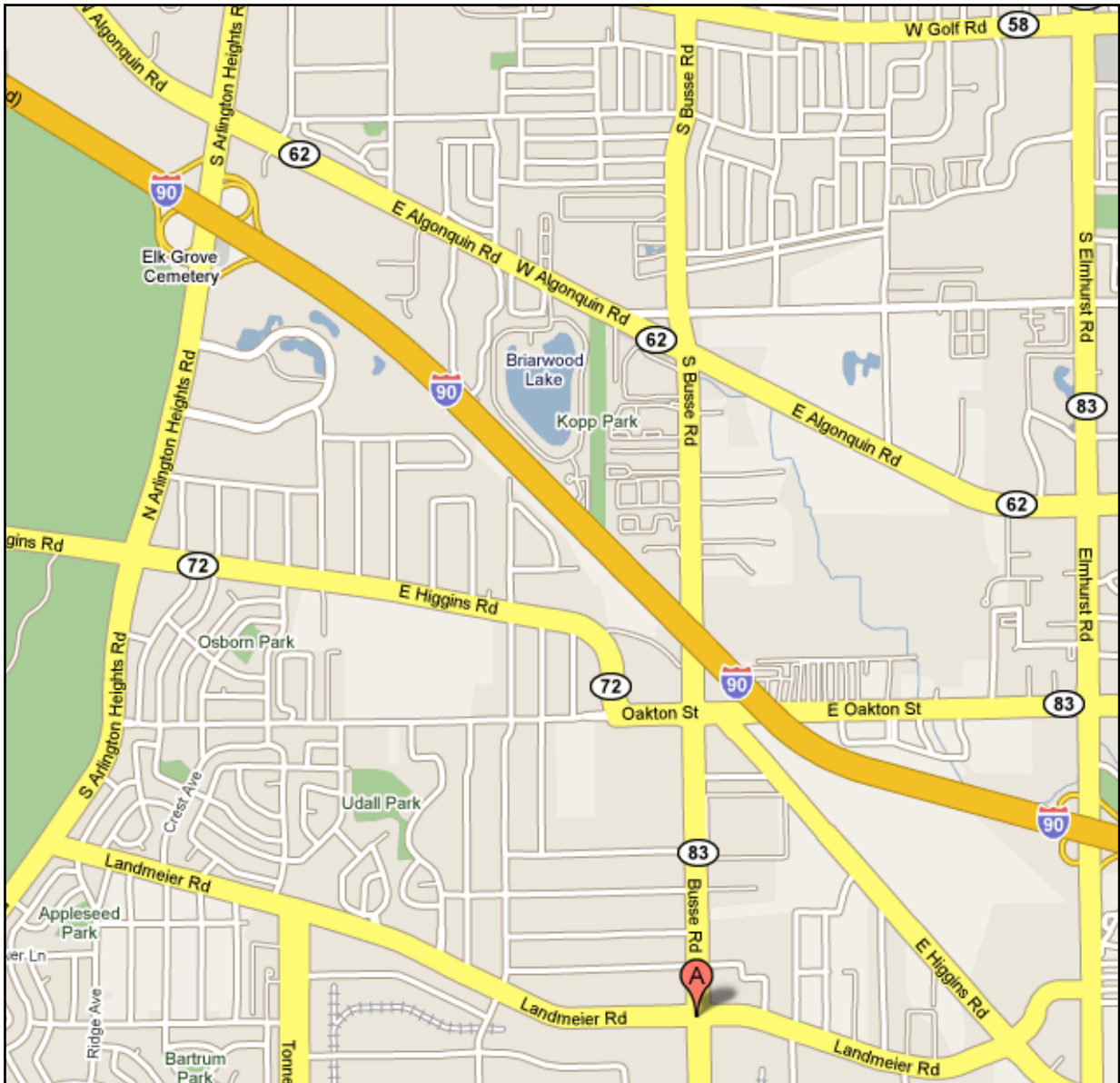
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**Elk Grove Holiday Inn, 1000 Busse Road, Elk Grove Village, IL, Phone 847-437-6010**



## **November Meeting**

**Tuesday, November 10, 2009**

### **Severe Weather Forecasting**

*by*

**James Allsopp**

Warning Coordination Meteorologist  
*National Weather Service, Romeoville, IL*