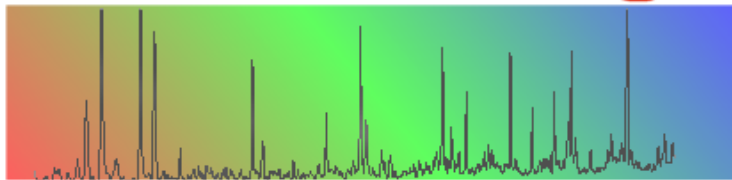




SAS-Chicago



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November Meeting

Tuesday, November 8, 2005

The November 2005 meeting will be held at the Steven's Steakhouse Restaurant, located at 476 N. York Road, Elmhurst, IL 60126-2002, 630-834-6611. See the map on the following page.

Social Hour: 5:30 - 6:30 PM

Dinner: 6:30 PM

Speaker: 7:30 – 9:00 PM

FROM THE MOLECULAR TO THE SPECTACULAR: SPECTROSCOPY AT THE ART INSTITUTE OF CHICAGO

Presentation by

Dr. Francesca Casadio, A. W. Mellon Conservation Scientist
(The Art Institute of Chicago)

In 2003, The Art Institute of Chicago has established a conservation science department, recognizing scientific research as central to the preservation and understanding of the collections in the Museum. Dr. Casadio will provide an overview of the broad range of applications of spectroscopy to the field of Cultural Heritage. In particular, the talk will discuss important case studies highlighting the most recent research in the following areas:

- Applications of NIR spectroscopy to the analysis of Chinese archaeological artifacts;
- the use of Vis-reflectance spectrophotometry for the virtual restoration and color reconstruction;
- applications of transmission FTIR spectroscopy for dating purposes;
- applications of micro-ATR spectroscopy to the investigation works of art on paper;
- authentication of artifacts using non-destructive Raman spectroscopy;
- the use of hyphenated techniques (TG-FTIR) to predict the effect of environmental parameters;
- the use of Raman and FTIR microspectroscopies to unravel ancient paint and pigment technology;
- the development of single nanoparticles optics for sensing of fluorescent compounds such as traditional artists' red lakes and dyestuffs.

The talk will disclose a fourth dimension of looking at art, encouraging the members of the Society for Applied Spectroscopy to come and explore the Art Institute's collections with totally different eyes.

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://www.sas-chicago.org/Online%20Registration%20at%20Steven's%20Steak%20House.htm> >, or by calling Mary Kaplar at 708-449-5767. Leave **your name, company affiliation, a telephone number, the number of reservations and your choice of entree**. Please call by **noon Friday, Nov. 4th**, 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: *London broil Steak, Chicken with Lemon Caper Sauce, or Vegetarian Fettuccini.*

Dinner Cost Members: \$25

Unemployed Members: \$10

Students: \$10

Non-members: \$30

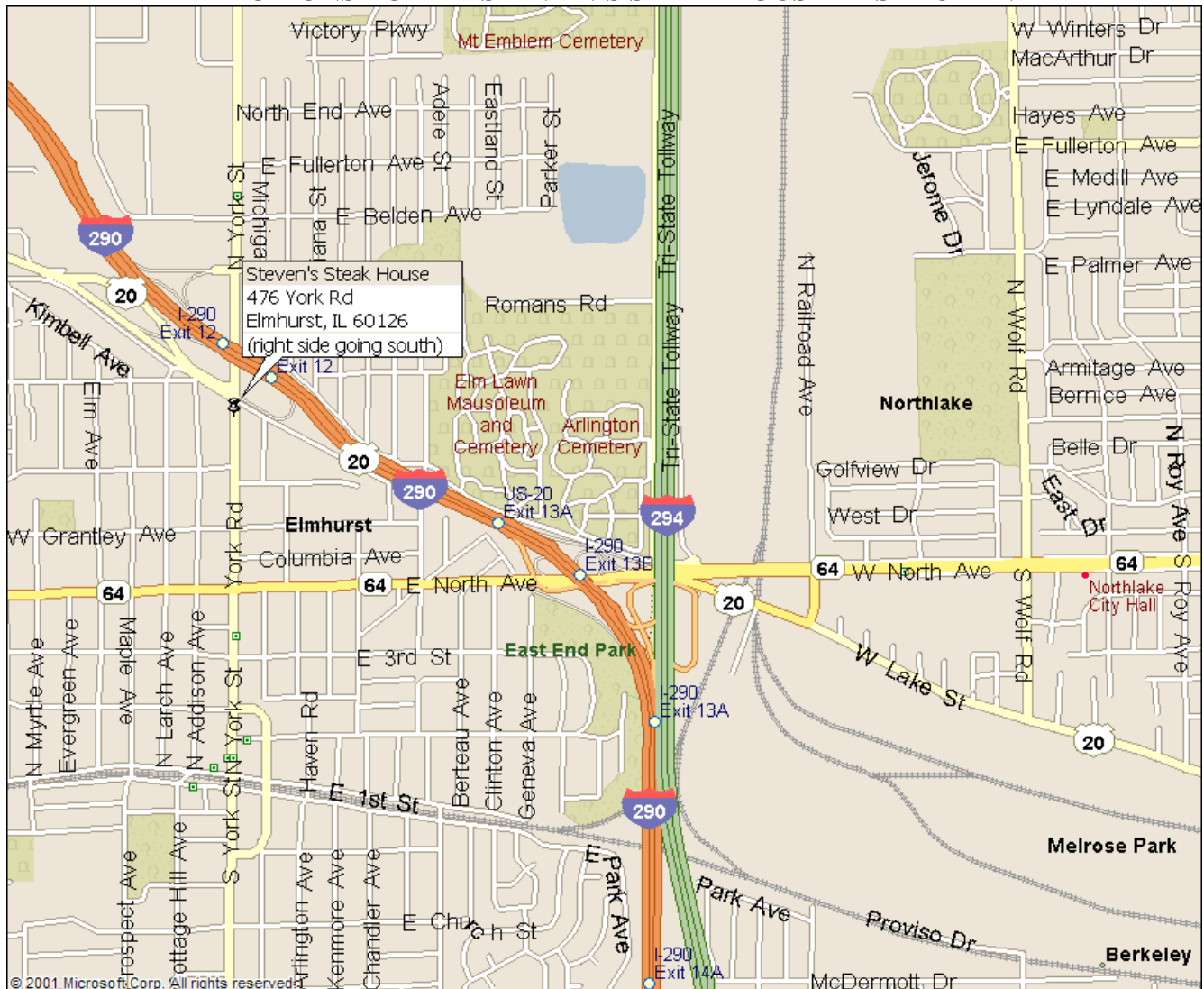
Biography

Francesca Casadio joined the Art Institute of Chicago as its first A.W Mellon Conservation Scientist in July 2003, filling a critical role in establishing and directing a conservation science program. Since 2004, Francesca has also piloted a groundbreaking conservation and scientific research program in collaboration with Northwestern University and Argonne National Laboratory.

Francesca Casadio received her Ph.D. (2001) and M.S. degrees in Chemistry from the University of Milan, Italy. Prior to her appointment to the Art Institute of Chicago, Dr. Casadio was research fellow in the Science Department at the Getty Conservation Institute, Los Angeles, then at the Italian National Council of Research in Milano where she conducted analytical research for the preservation of the façade of the Duomo, the Gothic Cathedral in Milan, and she was involved in a comprehensive study with other leading Italian research groups, to assess the conditions of Michelangelo's David.

Dr. Casadio has published on numerous topics in the conservation science field, dealing with both movable and immovable cultural heritage. Her current research interests focus on vibrational spectroscopies, in particular new applications of FTIR and Raman microspectroscopies, investigations of artists' techniques and applications of synchrotron radiation techniques to studies of museum objects.

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