

NU/AIC Seminar series in Conservation Science  
At Northwestern University, Thursday, October 28, 2010

## **Nanotechnology for Art Conservation**

Ford ITW Classroom, Northwestern University

### PROGRAM

- 9:30 Registration and coffee
- 10:00 am Welcome  
**Katherine T. Faber**, Northwestern University
- Session 1: Nanoprobes*
- 10:15 am **Richard P. Van Duyne**, (Northwestern University, Evanston, IL)  
**“SERS Nanosensors for Biomedical, Biowarfare and Art Applications”**
- 10:50 am **Laura Fabris** (Rutgers University, New Jersey, NJ)  
**“Multifunctional Metal Nanoparticle Dimers for Combined SERS-Based Imaging and Sensing, Cell Targeting, and Drug Delivery”**
- 11:25 am **Julie Arslanoglu** (the Metropolitan Museum of Art, New York, NY)  
**“An Improved Method of Protein Localization in Artworks through SERS Nanotag-Complexed Antibodies”**
- 12:00 pm **Volker Rose** (Argonne National Laboratory, Argonne, IL)  
**“X-ray Microscopy at the Nanoscale”**
- 12:40 pm Lunch
- Session 2: Nanotechnology, ancient and modern*
- 2:15 pm **Russell R. Chianelli** (University of Texas, El Paso, TX)  
**“Structure of Organic/Inorganic Surface Compounds: Azul Maya”**
- 2:50 pm **Ludovic Bellot-Gurlet** (LADIR, CNRS, France)  
**“Si-O Glasses and Fe-O Nano-Structured Phases In Cultural Heritage Materials: Insights from Raman Procedures”**
- 3:25 pm **Paul V. Braun** (University of Illinois at Urbana-Champaign, IL)  
**“Self-Healing and Mechanochromic Materials”**
- 4:00 pm Coffee break
- Session 3: Nanotechnology for art conservation*
- 4:30 **Piero Baglioni** (Department of Chemistry, University of Florence, Italy)  
**“New Methodologies for the Conservation of Cultural Heritage: Micellar Solutions, Microemulsions and Hydroxide Nanoparticles”**
- 5: 30 Concluding remarks

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