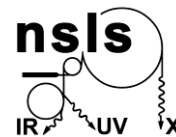




Workshop: April 6-7, 2009

Applications of Synchrotron Techniques in Glass Research



Brookhaven National Laboratory (BNL), Upton, NY.

Sponsored by:

International Materials Institute for New Functionality in Glass

(IMI-NFG)

National Synchrotron Light Source (NSLS)

Overview of Workshop

The Workshop will introduce the glass community to the synchrotron techniques that are currently available and prepare it for the future opportunities enabled by [NSLS II](#). The Workshop will also nucleate the formation of a glass synchrotron research consortium that will promote the funding, construction, and operation of synchrotron end station instrumentation optimized for glass research.



Synchrotron-based techniques provide important tools for both basic and applied materials research. The Department of Energy has approved construction of the next generation synchrotron facility: the National Synchrotron Light Source-II (NSLS-II), which will produce x-rays up to 10,000 times brighter than those produced at the NSLS today.

Important Information:

If you are **planning to stay on site at BNL (including speakers and organizers)** you must register in BNL's [Guest Information System \(GIS\)](#) **no later than February 28, 2009**

Approval, which can take 30 days or more*, must be granted prior to attending the workshop.

From March 1, 2009 it will be necessary to make reservations for off-site accommodations.

*see special instructions on REGISTRATION page

Organizers

H. Jain (Lehigh University)
C. Pantano (Penn State)
R. Pindak (Brookhaven Nat'l Lab)

Organizing Committee

F. Alamgir (Georgia Tech)
S. Billinge (Columbia University)
G. Chen (Ohio Univ)
P. Fons (Spring8, Japan)
A. Ganjoo (PPG Industries)
N. Greaves (U. Aberystwyth, UK)
S. Sen (UC Davis)

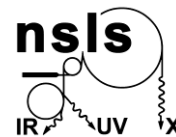
Contact s

Gretchen Cisco, NSLS, Brookhaven National Laboratory:
631-344-4703
gcisco@bnl.gov
Sarah Wing, IMI-NFG, Lehigh University:
610-758-1112
srw208@lehigh.edu

The National Synchrotron Light Source (NSLS) at Brookhaven Laboratory in New York is a national user research facility funded by the U.S. Department of Energy's Office of Basic Energy Science. The NSLS operates two electron storage rings: an X-Ray ring and a Vacuum Ultraviolet (VUV) ring which provide intense light spanning the electromagnetic spectrum from the infrared through x-rays. Each year over 2300 scientists from universities, industries and government labs perform research at the NSLS.



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Program

Monday, April 6, - Tuesday, April 7, 2009

Full program details available soon.

Workshop Topics - Speakers

Extended X-ray Absorption Fine Structure Analysis (EXAFS)

Bruce Ravel, National Institute of Standards and Technology, Synchrotron Methods Group at National Synchrotron Light Source

Pump-Probe EXAFS

Klaus Attenkofer, Advanced Photon Source, Argonne National Lab.

Total X-ray Scattering

Simon Billinge, Columbia University

X-ray Photoelectron Spectroscopy (XPS)

TBD

NEXAFS, XANES

Faisal Alamgir, Georgia Tech.

Anomalous X-ray Scattering

Takeshi Egami, University of Tennessee.

High Energy X-ray Diffraction at High Temperatures and High Pressures

Chris Benmore, Advanced Photon Source, Argonne National Lab.

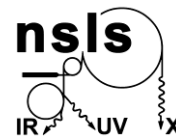
Combined X-ray Techniques EXAFS-SAXS-WAXS

Neville Greaves, University of Wales, UK.



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Registration

How to register

Registration on line only. [REGISTER NOW](#)

Open: January 27, 2009 • Closes: March 27, 2009

Reopens: April 6, 2009. Walk-in registrations will be accepted – meals will not be included for walk-in participants.

Registration fees

This event is sponsored by NSLS and IMI-NFG.

There is no fee for the workshop, but registration by March 27, 2009 is strongly encouraged.

Workshop will include meals for all participants registered by March 27, 2009.

Participants are responsible for their own travel and accommodation arrangements and costs.

Important Information - Please read carefully before you register and make accommodation arrangements

• **If you are planning to stay on site at BNL** (including speakers and organizers):

You must also register in [BNL's Guest Information System \(GIS\)](#) no later than February 28, 2009. Approval, which can take 30 days or more, must be granted prior to attending the workshop.

From March 1, 2009, off-site accommodation MUST be made.

• Important Information for foreign national citizens

Please note that approval for **Foreign National Citizens** can take 30-90 days. Under Department of Energy directives, requests by **citizens of Cuba, Iran, Libya, North Korea, Sudan and Syria** to stay on-site at BNL to attend the meeting and/or workshops require extensive review and approval by many agencies, including the Secretary of the Department of Energy. Approval may take a year or more.

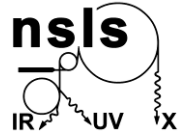
Due to the duration of the clearance process, citizens of these countries should secure off-site accommodations for this workshop.

• Important Information for foreign travelers

Foreign travelers coming into the U.S. intending to use the **Visa Waiver Program (WB visa)** will be unable to enter the U.S. unless they have been "pre-authorized" by the new online "Electronic System for Travel Authorization" (ESTA). Click here for more information about [ESTA](#)



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Other Important Information

On your arrival at Brookhaven National Laboratory (BNL)

There is a security booth at the entrance of BNL.

ALL participants will have to show proper PHOTO IDENTIFICATION before entering the site.

On the day of the workshop

All the workshop events will be held at [BERKNER HALL, Building 488](#)

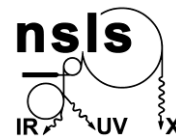
There will be sign boards to direct you to the building.

- Check in / register at the registration desk located at **Berkner** Hall (Monday).
- Welcome packages, containing workshop schedule, maps, local information, name badges ... will be handed out at check in / registration on Monday.
- A representative from NSLS/BNL will be available at the registration desk throughout the duration of the workshop to answer any questions.



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Financial Support

There will be limited funds available to support the participation of current graduate students and new postdoctoral fellows (within 2 years of graduation) with the cost of travel and accommodation on-site at BNL.

Please submit the following:

- a letter to request financial support, stating the cost of travel to attend this workshop
- brief biographical information about themselves
- letter of recommendation from their adviser

Mail to Sarah Wing at:

IMI-NFG, Lehigh University

Sinclair Lab 120,

Bethlehem PA18015

- e-mail: srw208@lehigh.edu
- fax: 1-610-758-6191

Applications for financial support must be received by March 1, 2009

Please [register](#) for the workshop **and** register in [BNL's Guest Information \(GIS\) system](#) (link) prior to sending in your financial support request. Students approved for financial support are encouraged to use BNL's on site housing accommodations.

To stay on site at BNL students must be registered and approved in BNL's GIS system. Approval, which can take 30 days or more, must be granted prior to attending the workshop.

From March 1, 2009, off-site accommodation MUST be made.

•Important Information for foreign national citizens

Please note that approval for **Foreign National Citizens** can take 30-90 days. Under Department of Energy directives, requests by **citizens of Cuba, Iran, Libya, North Korea, Sudan and Syria** to stay on-site at BNL to attend the meeting and/or workshops require extensive review and approval by many agencies, including the Secretary of the Department of Energy. Approval may take a year or more.

Due to the duration of the clearance process, citizens of these countries should secure off-site accommodations for this workshop.

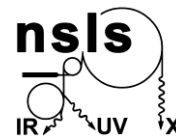
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Accommodations

Participants are responsible for organizing their own accommodations and should contact BNL housing or off-site hotels DIRECTLY to make reservations.

For further information please contact:

• Mercy Baez • Phone: 631-344-5769 • e-mail: baez@bnl.gov

On-Site Accommodation

Rooms Available:

Single dorms are \$35.00 per night

Rooms in the BNL guest house have 2 beds and can be shared \$106 / night.

Payment:

Payment will be self pay: credit card

Arrival / Departure dates: Sunday, April 5th - Wednesday, April 8th, 2009 (flexible)

Reservations:

• BNL housing office website link: [RESERVATIONS](#) • Phone: 631-344-2541 • e-mail: housing@bnl.gov

When making reservations refer to confirmation number: 192836

You must also register in [BNL's Guest Information System \(GIS\)](#) no later than February 28, 2009, if you wish to stay in on-site accommodation provided (dorm-style rooms at \$35/night), due to security clearance procedures at Brookhaven National Laboratory

Note: **From March 1, 2009 off-site accommodations MUST be made.**

Off-Site Accommodations

[Hampton Inn Brookhaven](#) website link (2000 North Ocean Ave., Farmingville, NY 11738)

• Phone: +1 - 631-732-7300 • Fax: +1 - 631-732-5522

Discounted group rate: \$119.00 / night (includes breakfast)

When making reservations refer to confirmation number: BNL GLA

Cut-off date for reservations: March 23, 2009

The hotel will provide ONE shuttle service one in the morning and ONE in the afternoon.

[Crowne Plaza Hotel](#) website link (1739 North Ocean Ave., Holtsville, NY 11742)

• Phone: +1 - 631-758-2900 • Fax: +1 - 631-758-2612

Discounted group rate: \$109.00 / night (includes continental breakfast)

When making reservation request the BNL rate

Cut-off date for reservations: none

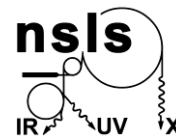
NO shuttle service being offered at this time

Useful Link: [Other hotels near BNL](#)



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Poster Session

In this session we invite you to take the opportunity to present your RESEARCH / TECHNOLOGY RESULTS.

Easels and poster boards (48"x36") to display your posters will be available during the workshop on Monday, April 6, 2009. Participants will have the opportunity to discuss their posters with other participants during the poster session to be held on Monday evening.

Important Guidelines & Information

●Poster Size:

Posters should no larger than 3' wide by 4' high. Please DO NOT EXCEED THIS SIZE as the easels cannot accommodate larger sizes. The poster must be contained on one sheet of paper or poster board. If the poster is going to be laminated, please do not double laminate.

●Poster Title:

Posters must have a title with lettering at least 1-1/2" high. Below the title, list the names of the poster authors and their affiliations. Ensure the poster is legible from a distance.

●Poster Set Up:

Posters will be set up for you on the day of the poster session (Monday)
Please ensure your poster is sent ahead of time to NSLS or handed in at the registration desk **before 11am on Monday, April 6, 2009**. (See information below)

Participants have 2 options available to them:

1. Mail your poster in advance directly to NSLS, clearly address as follows:

Gretchen Cisco, User Administration Office
NSLS, Brookhaven National Laboratory
75 Brookhaven Avenue
Upton, NY 11973

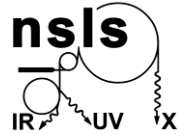
2. Hand in your poster at the Registration Desk on your arrival.

●Return of posters to participants:

Participants may take their posters directly after the poster session on Monday evening.
Any posters remaining after this session will be taken and stored at the registration desk for collection **up until 3pm on Tuesday, April 7, 2009**.
After this time, any posters not collected will be discarded. Please note we are not able to mail posters back to participants.



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Travel Information

Traveling by car

[Maps and Directions to NSLS](#)

Traveling by other transport

[Transportation Links](#)

Directions to Hotels / Guests Houses near NSLS

[Visitor Information](#)

BNL site map

[Directions from main gate to Berkner Hall](#)

On your arrival at Brookhaven National Laboratory (BNL)

There is a security booth at the entrance of BNL.

ALL participants will have to show [IDENTIFICATION](#) before entering the site.

All the workshop events will be held at [BERKNER HALL, Building 488](#)

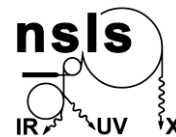
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Contact Information

For any general enquiries on workshop program, please contact:

Sarah Wing

International Materials Institute for New Functionality in Glass
Sinclair Lab 120, Lehigh University
7 Asa Drive, Bethlehem, PA 18015
Phone: 610-758-1112 • e-mail: srw208@lehigh.edu • fax: 610-758-6191

For any specific questions on NSLS / BNL and poster session, please contact

Gretchen Cisco

User Administration Office
National Synchrotron National Laboratory (NSLS)
Brookhaven National Laboratory
75 Brookhaven Avenue, Upton NY11973
Phone: 631-344-4703 • e-mail: gcisco@bnl.gov • fax: 631-344-7206

For any questions regarding on-site or off-site accommodation at BNL, please contact:

Mercy Baez

User Administration Office
National Synchrotron National Laboratory (NSLS)
Brookhaven National Laboratory
Phone: 631-344-5769 • e-mail: baez@bnl.gov

Organizers:

Himanshu Jain

International Materials Institute for New Functionality in Glass (IMI-NFG), Lehigh University
Phone: 610-758-4217 • e-mail: h.jain@lehigh.edu • fax: 610-758-6191

Carlo Pantano

Penn State University
Phone: • 814-863-2071 • e-mail: cgp1@psu.edu • fax: 814-863-8561

Ron Pindak

National Synchrotron National Laboratory (NSLS)
Phone: • 631-344-7529 e-mail: Pindak@bnl.gov

Useful Links:

- [BNL/NSLS On-Site Housing](#)
- [IMI-NFG, Lehigh University](#)
- [BNL's Guest Information System \(GIS\)](#)
- [Identification Documents Requirements](#)