NSF Light Source Panel Visit

Tuesday Evening, March 25, 2008.

Time 6:30 pm Executive session, Rowe Room, Statler Hotel, Cornell Campus

Time 7:30 pm Dinner, Rowe Room, Statler Hotel, with Directors/University Officials.

Cornell:

Don Bilderback, CHESS Assoc. Director, Appl. & Eng. Phys.
Joel Brock, G-line Director, Physics
Bob Buhrman, Vice-Provost for Res., Appl. & Eng. Phys.
Rick Cerione, MacCHESS PI, Chemistry & Molec. Medicine
Ernie Fontes, CHESS Assis. Director
Sol Gruner, CHESS Director, Phys.
Quan Hao, MacCHESS Director, Appl. & Eng. Phys.
Don Hartill, Phys.
Bob Richardson, Phys.
Maury Tigner, CLASSE Director, Phys.

Site Visitors:

Venkatesh Narayanamurti, Harvard University, Chair
Hellen T. Edwards, Fermi Lab
Michael L. Klein, University of Pennsylvania
W. Carl Lineberger, University of Colorado, JILA
Mary Jane Saunders, Cleveland State University
Richard C. York, Michigan State University

Guebre Tessema, DMR, NSF
Charles Bouldin, DMR, NSF

Wednesday, March 26, 2008. 380 Wilson Synchrotron Lab

7:30 am Continental breakfast
8:00 am Overview of Cornell synchrotron light source activities
8:00 CLASSE overview. Sol Gruner
8:15 CHESS overview. Ernie Fontes
8:30 Students & Education. Joel Brock
8:45 Accelerator projects overview. Georg Hoffstaetter
9:10 Superconducting RF facility tour.

9: 50 am Coffee Break

10:05 am Tour of Wilson synchrotron facility, meeting students, staff, etc. Includes synchrotron, CHESS, ERL injector

11:45 am Large facility management at Cornell. John Silcox, Maury Tigner, Dave Rice, Sol Gruner

12:15pm Lunch with young faculty, 380 Wilson
Ivan Bazarov, Assis. Prof. Phys.
Ruth Collins, Assoc. Prof. Molec. Medicine

Brian Crane, Assoc. Prof. Chemistry
Georg Hoffstaetter, Assoc. Prof. Phys.
Ailong Ke, Assis. Prof. Molec. Biol. & Genetics
Matthias Liepe, Assis. Prof. Phys.
Lois Pollack, Assoc. Prof. Appl. & Eng. Phys.
Kyle Shen, Assis. Prof. Phys.
Uli Wiesner, Prof., Materials Sci. & Eng.

1:30 pm Discussion with students & post-docs
Buz Barstow, Grad Student, Appl. & Eng. Phys.
Michael Ehrlichman, Grad Student, Phys.
John Ferguson, Grad Student, Mater. Sci & Eng.
Marianne Hromalik, Post-doc, Phys.
Marleen Kamperman, Grad Student, Mater. Sci. & Eng.
Lucas Koerner, Grad Student, Phys.
Chris Mayes, Grad Student, Phys.
Charlotte Pearson, Post-doc, Classics
Olexandr Romanenko, Grad Student, Phys.

2:30 pm Discussion with Cornell Administration.
Provost Biddy Martin, Vice-Provost for Research Bob Buhrman

3:00 pm Coffee

3:15 pm Executive session

4:00 pm Adjourn

NSF Light Source Panel Visit
Cornell University Participants

Cornell University students and postdocs:

Buz Barstow, Graduate Student, Applied and Engineering Physics
Concentration: PhD thesis pertains to the fluorescent protein molecule, Citrine
Michael Ehrlichman, Graduate Student, Physics Dept.
Concentration: Particle accelerator ion instabilities
John Ferguson, Graduate Student, Materials Science and Engineering
Concentration: Time resolved diffuse scattering during pulsed laser deposition
Marianne Hromalik, Postdoc, Physics Dept.
Concentration: X-ray detector development for LCLS and other projects
Marleen Kamperman, Graduate Student, Materials Science and Engineering
Concentration: Developed an easily controlled bottom-up approach towards nanostractured high-temperature ceramics in which block copolymer mesophases are used to template inorganic precursers.
Lucas Koerner, Graduate Student, Physics Dept.
Concentration: PAD x-ray detector development for LCLS and other projects
Chris Mayes, Graduate Student, Physics Dept.
Concentration: Particle accelerator linear and nonlinear particle optics
Charlotte Pearson, Postdoc, Classics
Concentration: Dendrochronology, dendrochemistry and geoarchaeology
Olexandr Romanenko, Graduate Student, Physics Dept.
Concentration: Superconducting radio-frequency (SRF)

Cornell University Faculty & Staff:

Ivan Bazarov, Assistant Professor, Physics Dept.
Research Interests: Production of extreme particle beams and development of new applications utilizing such beams.
Sergey Belomestnykh, Senior Research Assoc, LEPP
Research Interests: RF technology
Don Bilderback, Associate Director CHESS and Adjunct Professor, Applied and Engineering Physics
Research Interests: X-ray optics & x-ray technology
Joel Brock, Director G-line and Professor, Applied Engineering and Physics
Research Interests: Pulsed laser deposition, charge density waves, condensed matter
Bob Buhrman, Vice-Provost for Research and Professor, Applied and Engineering Physics
Research Interests: Nanomagnetics, nanostructures, condensed matter physics
Rick Cerione, MacCHESS PI, Chemistry and Molecular Medicine
Research Interests: Cell surface receptors
Ruth Collins, Associate Professor, Molecular Medicine
Research Interests: How chemical reactions of biology are organized within the cellular boundaries.
Brian Crane, Associate Professor, Chemistry
Research Interests: Understanding interactions among proteins, electrons and photons.
Darren Dale, Staff Scientist, CHESS
Research Interests: Pulsed laser deposition, x-ray imaging
Bruce Dunham, Senior Research Associate, Project manager ERL Gun

Research Interests: Photoinjectors
Ernie Fontes, Assistant Director, CHESS
Research Interests: X-ray technology, education & outreach
Sol Gruner, Director, CHESS, Professor of Physics
Research Interests: Soft condensed matter physics, biophysics, x-ray technology
Quan Hao, MacCHESS Director, Adjunct Professor, Applied & Engineering Physics
Research Interests: Macromolecular crystallography
Don Hartill, Professor, Physics
Research Interests: Accelerator physics
Georg Hoffstaetter, Associate Professor, Physics
Research Interests: Physics of beams; accelerator technology
Ailong Ke, Assistant Professor, Molecular Biology & Genetics
Research Interests: The biology of RNA
Matthias Liepe, Assistant Professor of Physics
Research Interests: Radio frequency superconductivity, accelerator physics
Biddy Martin, Provost, Professor, German Studies
Research Interests: Women's studies.
Matt Miller, Professor, Mechanical and Aerospace Engineering
Research Interests: Failure of metals
Dimitre Ouzounov, Research Associate, LEPP
Research Interests: Laser optics for ERLs
Ritchie Patterson, Professor of Physics, Director of Graduate Studies
Research Interests: Elementary particle physics, LHC
Lois Pollack, Associate Professor, Applied Engineering and Physics
Research Interests: Self-assembly/folding of macromolecules and conformational changes associated with biological function.
David Rice, Senior Research Associate, LEPP
Research Interests: Accelerator physics
Bob Richardson, Professor, Physics
Research Interests: Condensed matter physics
Kyle Shen, Assistant Professor, Physics
Research Interests: Utilizing momentum-resolved probes to study the electronic structure of complex quantum materials.
John Silcox, Professor, Applied and Engineering Physics
Research Interests: Condensed matter physics, electron microscopy
Maury Tigner, Director, CLASSE, Professor of Physics
Research Interests: Accelerator physics
Uli Wiesner, Professor, Materials Science and Engineering
Research Interests: Control of materials assembly at very small length scales, towards the development of novel functional materials.
Frank Wise, Director, Applied Engineering and Physics and Professor
Research Interests: Lasers & quantum optics
Arthur Woll, Staff Scientist, CHESS
Research Interests: Pulsed laser deposition, x-ray technology applied to the arts