

Stony Brook Perspectives

Overview and Path Forward – Benjamin Hsiao (Chemistry)

Physical Science Themes – John Parise (Geosciences)

Life Science Themes – Robert Haltiwanger (Biochemistry)

Assisted by Michael Dudley (Materials Sci & Eng)

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Lisa Miller (NSLS)

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Stony Brook University

- Principle BSA partner (with Battelle) to manage BNL
 - President Stanley is Chair of the BSA Board
 - Core universities: Columbia, Princeton, Yale, Cornell, Harvard, MIT
- Other universities that co-manage national laboratories in the US
 - University of Chicago: Fermilab and Argonne National Laboratory
 - University of California System: Los Alamos National Laboratory, Lawrence Livermore National Laboratory, Lawrence Berkeley Laboratory
 - California Institute of Technology: NASA Jet Propulsion Laboratory
 - Stanford University: Stanford Linear Accelerator Laboratory
 - Johns Hopkins University: Applied Physics Laboratory
 - MIT: MIT Lincoln Laboratory
 - University of Tennessee: Oak Ridge National Laboratory

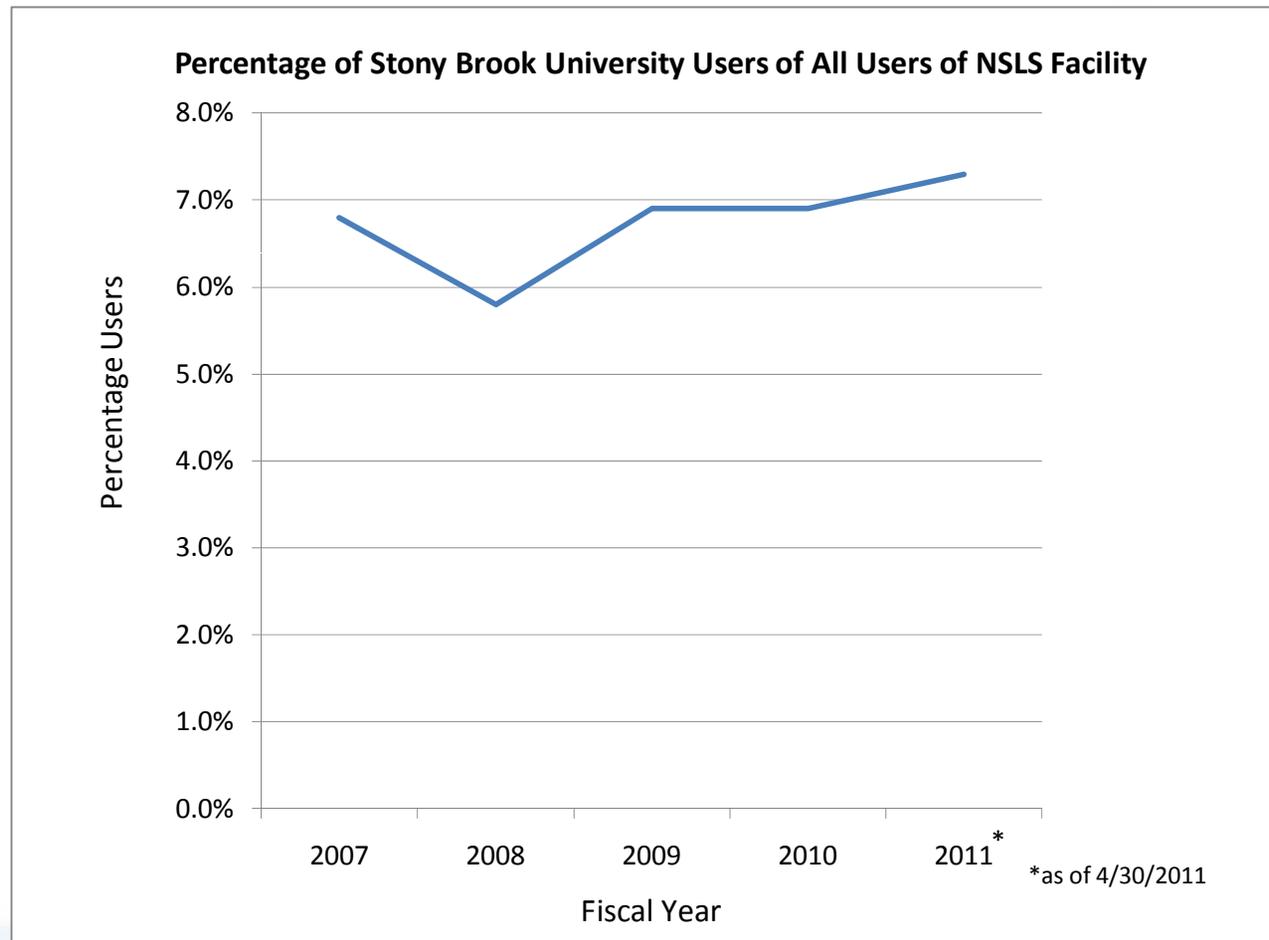


Some facts about SBU

- Founded in 1957, one of the State University of New York's four University Centers
- Member of the Association of American Universities
- A National Merit Institution
- Total students ~ 25,000 (undergraduate ~ 16,000, graduate ~ 9,000), faculty ~ 2,200
- Top 62 research institutions in North America; U.S. News & World Report ranks SBU among the top 50 public universities; SBU ranked 78 in the Times Higher Education World University Rankings.

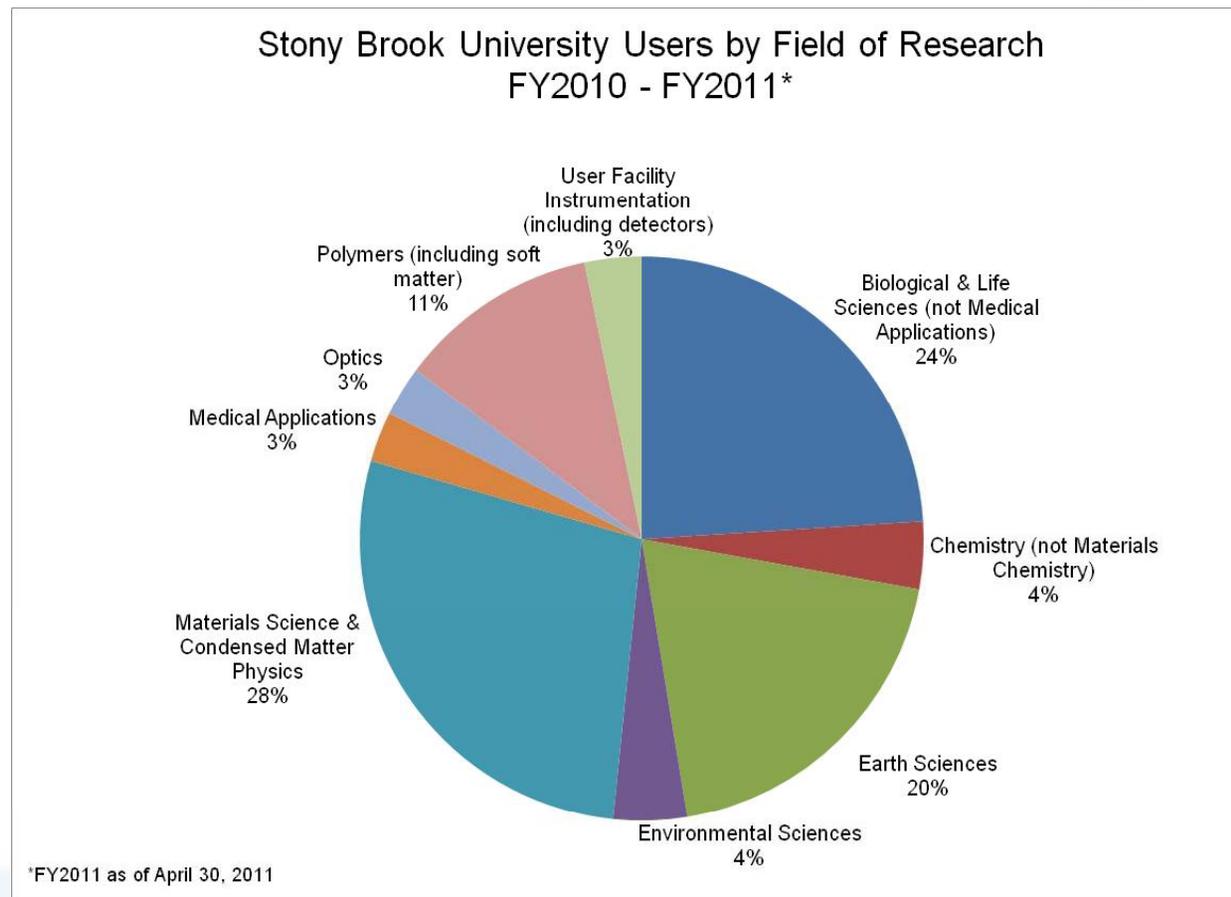
SBU and NSLS

- Largest user (by far) of NSLS (~ 7% or > 150 users/yr)



SBU Users in NSLS

- Physical Science Users ~ 70%
- Life Science Users ~ 30%



SBU and NSLS-II

- **One-possible model** - Center for Advanced Radiation Sources (CARS) is a department-level center within University of Chicago that manages the operation of 3 sectors (7 beamlines) at APS, ANL
- CARS operates as an interdisciplinary resource that includes an extensive central design and technology team: GeoSoilEnviroCARS, BioCARS, ChemMatCARS
- Operations are funded by the DOE, NIH, and NSF, as well as through short- and long-term industrial partnerships: over \$100 million in funding (direct cost) since inception

Joint Photon Sciences Institute (JPSI)

- A joint SBU/BNL institute in photon sciences to capitalize on the unique capabilities of NSLS-II,
- Develop and enhance S&T programs that take optimal advantage of NSLS II and related BNL capabilities toward national impact
- Serve as a gateway to NSLS II, especially for NYS universities and industry
- Educate and train the next generation of leaders and practitioners in synchrotron radiation research
- Develop and enhance multidisciplinary approaches and identify enabling technologies to support NSLS II

JPSI – Path Forward

- **Major issue** – Finding sustainable operating funds from DOE, NSF, NIH and industrial partners
- For example, SBU is leading an effort to submit an NSF Science and Technology Center (STC) proposal, “Center for Advanced Photon Science and Technology (CAPST)”
- Explore other large funding opportunities through NIH, NSF and DOE by different SBU/BNL teams