



9:00 a.m. - 9:10 a.m.	Introduction
9:10 a.m. - 9:40 a.m.	Doon Gibbs, Interim Director, Brookhaven National Laboratory: Overview and Funding Opportunities
9:40 a.m. - 10:10 a.m.	Peter Paul, Interim Associate VP for Brookhaven Affairs: A Research University on the Move
10:10 a.m. - 10:30 a.m.	Coffee Break

**Funding, Applications and Reviews**

10:30 a.m. - 11:00 a.m.	Mikhail Gouzman, Stony Brook University: <i>Industrial Grants</i>
11:00 a.m. - 11:30 a.m.	TBD
11:30 a.m. - 12:30 p.m.	Round Table: Pat Looney, Brookhaven National Laboratory and Peter Paul, Stony Brook University,
12:30 p.m. - 1:30 p.m.	Lunch

**Session 3: Focus Group Discussions**

**1:30 p.m. - 5:00 p.m.**

Discussions will include key areas of research at SBU and BNL. Participants will be divided into small groups according to the subject area of their interest. The participants will interact with experts (program manager, project leader or experienced researcher) specific to their area of interest who will provide participants exposure to grants writing and priority research directions in their field.

5:30 p.m.	Depart for dinner at the <a href="#">Three Village Inn</a> , Stony Brook, NY ( <a href="#">Directions</a> )
6:00 p.m. – 6:30 p.m.	Cocktail Hour, Three Village Inn
6:30 p.m. – 10:00 p.m.	Dinner, Three Village Inn

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**Focus Groups (FG):**

**FG: Photon / Particle Detectors and Instrumentation**

Organizer: Neena Nambiar, Instrumentation Department, BNL

Scope: Detector systems for Photons and Particles incorporate a wide range of basic science and technology. The system chain starts with the sensors which absorb the particles producing signals, followed by the front end electronics which process and digitize the sensor signals. Finally the digital electronics and data acquisition systems

allow the end user to collect and analyze the data. Collaborators from many different areas of research team up to develop these systems.

Targeted Participants: Users and developers of the different aspects of the detectors

**Speakers:**

- Hector Lopez (via videoconference) - NIH/ NIBIB National Institute of Biomedical Imaging and Bioengineering, Division of Applied Science and Technology
- Peter Vanier BNL (DOE) - Radiation Detector and Non-Proliferation R&D (NNSA)
- Juan Figueroa NSF SBIR Videoconference - Division of Industrial Innovation and Partnership

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**FG: Theory and Computation in Basic Sciences**

Organizer: Yan Li, Computational Science Center, Brookhaven National Laboratory

Target participants: Scientists interested in subjects related to theoretical and computational physics, chemistry and material sciences. The group will have the opportunity to meet with DOE program managers, successfully funded researchers, and proposal reviewers.

**Speakers:**

- Mark Pederson, DOE Program Manager, Computational and Theoretical Chemistry Via Skype
- Ceren Susut, DOE Program Manager, Office of Science, Advanced Scientific Computing Research
- Mark Hybertsen, Group leader, Theory& Computation group, CFN, BNL
- Marivi Fernández-Serra, Associate professor, Department of Physics, SBU

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**FG: Development of Teaching and Learning Tools in STEM Fields**

Organizer: Suman Grewal, Department of Math and Science, SCCC and Clinic Research Associate at Stony Brook University Hospital.

Target Participants: CARE2013 participants and educators who are interested in learning about the funding opportunities available for research and development of teaching and learning tools in the STEM fields at undergraduate Colleges.

**Speakers:**

- Joseph J. Grabowski, Ph.D. (via videoconference) Program Director, Division of Undergraduate Education (DUE), Education and Human Resources Directorate (EHR), National Science Foundation (NSF)

- Terry Woodin, Program Director, Division of Undergraduate Education, Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics NSF

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### **FG: Nuclear Engineering and Materials**

Organizer: Arantxa Cuadra, Nuclear Science and Technology Department, Brookhaven National Laboratory

Target Participants: Scientists and engineers interested in subjects related to nuclear engineering, advanced materials for energy systems, environmental degradation of nuclear power plants, and reliability and risk assessment in nuclear facilities.

Speakers:

- Sue Lesica, DOE-NE (videoconference)

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### **FG: Engineering and Engineering Applications in STEM**

Organizer: Monica F. Bugallo, Department of Electrical and Computer Engineering, Stony Brook University

Scope: The purpose of this workshop is to establish collaborations between a wide range of subjects that need engineering solutions

Target Participants: Scientists and engineers interested in multidisciplinary applications of engineering sciences

Speakers:

- Helio Takai, Physicist, BNL
- Angela Kelly, Physics and Associate Director of Science Education, Stony Brook University
- Carrie-Ann Miller, Director of WISE, Stony Brook University
- Mónica F. Bugallo, Electrical and Computer Engineering, Stony Brook University

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### **FG: Life Sciences, Structural Biology and Environmental Sciences**

Organizers: Rakhi Agarwal, Biosciences Department, Brookhaven National Laboratory, Zulema Cabail, Department of Physiology and Biophysics, Stony Brook University

Target Participants: Scientists interested in subjects related to plant biology, biochemistry and protein crystallography

Speakers:

- Gino Cingolani, Associate Professor, Biochemistry and Molecular Biology, Thomas Jefferson University - (Videoconference)
- Dr. Roland Hirsch, Ph.D., Program Manager-DOE-BER, Structural Biology - (Videoconference)
- Susan McCarthy, Ph.D., Program Director, Cancer Immunology and Hematology Branch (CIHB) - (Videoconference)
- Prof. Michelle McGuirl, Program Director in Molecular Biophysics in MCB at NSF (Videoconference)
- Mary D. (Molly) Frame, Associate Professor, Department of Biomedical Engineering, Stony Brook University

Agenda for Life Sciences Focus Group:

<http://www.bnl.gov/care2013/files/pdf/AgendaForLifeSciencesFocusGroup.pdf>

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**FG: Industrial Grants. Search, benefits and Limitations**

Organizer: Mikhail Gouzman,

Target Participants - Personal experiences and tips for success Berkner Room D

Speakers:

- Mikhail Gouzman – Introduction
- Robyn Rock – Proposal Center Briefing
- Pat Looney – TBD