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U.S. Energy Secretary Bodman Visits Brookhaven Lab *Meets New Interim Lab Director, Sees BNL Research Facilities During First Tour*

- Brookhaven Lab was honored on June 2nd, when the Secretary of the U.S. Department of Energy (DOE), Dr. Samuel Bodman, paid his first visit to the Lab since the Energy Secretary was sworn into his cabinet post in 2005.



Energy Secretary Bodman (right) and Under Secretary for Science Orbach (center) with BNL physicist Gene Van Buren at RHIC

- "I am especially pleased to be visiting a Laboratory with the distinguished record that Brookhaven has compiled. . . . Six Nobel laureates can be counted among your many markers of world scientific leadership and accomplishment," remarked Dr. Bodman, a chemical engineer who is the 11th Secretary of the Energy Department.
- Founded in 1977 as the 12th cabinet-level department, DOE is, through its Office of Science, the nation's single largest supporter of basic research in the physical sciences. In addition to supporting fundamental science at more than 300 colleges and universities nationwide, DOE's Office of Science funds ten national laboratories, of which BNL is one.
- After meeting with the Laboratory's new interim Director (see story, right), Dr. Bodman toured BNL's two largest operating research facilities: the Relativistic Heavy Ion Collider (RHIC; see photo, above), where the world's first perfect liquid was recently discovered, and the National Synchrotron Light Source, where the 2003 co-winner of the Nobel Prize in Chemistry did much of his prize-winning work.
- The Energy Secretary was then updated on the progress on the Center for Functional Nanomaterials (CFN). To be completed in 2007, the CFN is one of five Office of Science centers now under construction where researchers will study materials on the scale of

a nanometer, or billionth of a meter.

- Meeting with employees, Dr. Bodman discussed the American Competitiveness Initiative proposed by U.S. President George W. Bush "to encourage innovation throughout our economy, and to give our nation's children a firm grounding in math and science."

Under that initiative, Dr. Bodman requested a 14-percent increase in next year's Office of Science budget, to "greatly expand our ability to support basic research in the physical sciences" such as that done at BNL.

Interim BNL Director Named *Search for Ninth Permanent Director Continues*

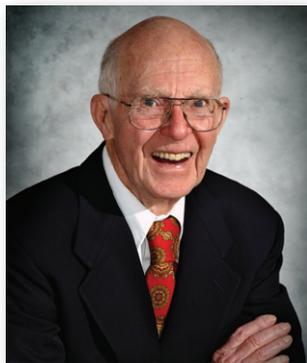
- Physicist and native Long Islander Samuel Aronson, who has had a 28-year BNL career as a scientist, research project manager and scientific department leader, was named interim Laboratory Director by Brookhaven Science Associates, the company established by Stony Brook University and Battelle to manage BNL for the U.S. Department of Energy.
- On May 1st, Dr. Aronson assumed the interim position, following the departure of Dr. Praveen Chaudhari, who served as the Lab's eighth director since 2003.
- Dr. Aronson will serve in this capacity until a new director is found.



Sam Aronson

BNL Mourns the Passing of Nobel Laureate Raymond Davis Jr. First Scientist to Detect Solar Neutrinos Shared 2002 Nobel Prize in Physics

- Brookhaven Lab mourns the passing of Physics Nobel laureate and BNL retired chemist Raymond Davis Jr., who died at his home in Blue Point on May 31st at the age of 91.
- In 2002, Dr. Davis shared the Nobel Prize in Physics for being the first to detect neutrinos coming from the Sun. Solar neutrinos are the only particles emerging from the Sun's nuclear furnace that survive the 93-million-mile trip to the Earth.



Raymond Davis Jr.

- In being the first to detect solar neutrinos, Dr. Davis answered the question, "Why does the Sun shine?" by confirming that the Sun shines as a result of fusion — a reaction in which protons are transformed into helium and, in the process, two neutrinos arise for each helium nuclei.
- The Nobel awarded to Dr. Davis was the fifth of six Nobel Prizes bestowed for work done at or under the auspices of Brookhaven, but the first to be given to a member of the Laboratory's scientific staff.

Summer Sundays Are Again Open-to-the-Public, Free Family-Fun Days Stop by During Seven Sizzling Science Sundays, July 9th through August 20th

On seven Summer Sundays, 10 a.m. to 3 p.m., from July 9th through August 20th, Brookhaven Lab will again open its site for the world to see and experience the high-tech world of big science machines and cutting-edge research — and to enjoy the Whiz Bang Science Show!

So, before the lazy, hazy, crazy days of summer roll out, mark your calendar for sizzling Summer Sundays — free at Brookhaven Lab:

Sunday, July 9th: Local Forecast, National Weather

- Discover what everyone is talking about and what the National Weather Service at Brookhaven Lab is doing something about—the weather!
- Track storms with Doppler radar, computer-simulate hurricanes, learn how to be prepared for whatever the weather will bring—and watch a 3:30 p.m. weather balloon launch!

Sunday, July 16th: Medical Marvels & Brilliant Biology

- Learn how brain studies are revealing the mechanisms of addiction! Find out how plant bacteria are being used to clean up the environment!
- Watch DNA being sequenced! And see the biological macromolecules that an electron microscope can see!

Sunday, July 23rd: Science Learning, Science Fun

- Try your hand at hands-on science exhibits! Visualize in 3-D! Find out about science and engineering fairs and contests for the kids!
- Discover the Long Island ScienCenter and the Port Jefferson Children's Maritime Museum! And watch as a magician reveals the science behind the tricks of his trade!

Sunday, July 30th: See L.I.'s Brightest Light

- Visit one of the world's brightest sources of light—the National Syn-



chrotron Light Source at Brookhaven Lab!

- See where one of the 2003 Nobel Prize laureates in Chemistry did much of his winning work! And learn how intense x-ray, infrared, and ultraviolet light is used to examine everything—from the AIDS virus to stardust!

Sunday, August 6th: Future Facilities, a Site to See

- See scientific research facilities of the future in the planning and under construction! Climb aboard 'dozers, graders and other heavy equipment. Explore fire engines and rescue equipment
- Learn about on-the-job and at-home safety! And be entertained by a magician, as he reveals the science behind his tricks!

Sunday, August 13th: Energy Use, Environmental Impact

- Find out how scientists study global warming and other climate change—and what they have discovered so far! Understand the environmental impact of energy use and atmospheric pollution
- See a bio-diesel burner for your home at work!

Sunday, August 20th: RHIC the Relativistic Raceway

- Discover RHIC—the Relativistic Heavy Ion Collider—which is one of the world's largest particle colliders!
- Visit the subterranean magnet tunnel, in which beams of gold ions are collided at near the speed of light! Tour two colossal particle experiments that are each the size of a house! Discover the new state of matter just uncovered at RHIC—a perfect liquid—and find out what it says about the early universe!

No reservations required! Stop by anytime between 10 a.m. and 3 p.m.

Brookhaven Lab is located off LIE exit 68, north 1-1/2 miles on County Route 46, the William Floyd Parkway. Ages 16 and over, bring photo ID. For more information, go to www.bnl.gov or call (631) 344-BNL1.