**Budget Update**

This month, DOE will take additional steps to ensure compliance with the new DOE safety rule, as described in the Valence Model for Truthful Reporting (VMTR) and at DOE's Standard Operating Procedure (SOP) that describes how to plan and conduct work in a safe manner at the Lab. A new federal regulation known as the New DOE Rule to Enhance Safety, Health of Workers, DOE’s Office of Safety and Health, and the Office of Scientific Research (OSR) are working closely to ensure that the new rule is implemented.

The new rule addresses many of the concerns raised by employees and contractors, including:

- The importance of understanding the risks associated with each assigned task.
- The need for employees to be aware of the hazards associated with their job.
- The requirement for employees to participate in the development of the facility's safety programs.
- The need for employees to report any incidents or near misses.
- The requirement for employers to conduct regular safety audits.

The rule also contains new requirements for training and documentation, and a new system for identifying and controlling hazardous substances.

For more information, please see the BNL web site at www.bnl.gov/eshq/files/pdf/NewDOERule.pdf.

**Superradiance Observed in FEL**

Tremendous effort has been devoted to generating stable light pulses using a new technique that could be used in the next generation of light source facilities around the world to catch molecules and atoms in action. Published on January 19, 2007, in Physical Review Letters, the research describes the use of a laser to control the pulse duration of light from a free electron laser (FEL), a type of light source with a brilliance up to one billion times higher than that of ordinary synchrotron light. The team also reports the first demonstration of superradiance, a phenomenon in which the light pulse is clearly part of the message.

While the auditors will not interview everyone, all employees are encouraged to participate if they have questions or comments about the new rule. As an example, all employees must wear required safety equipment when entering the lab or performing specific tasks.

In addition, the team is continuing to study the effects of the new rule on the lab's safety culture and the effectiveness of the lab's safety programs. The team will continue to consult with coworkers and managers to assess the impact of the new rule and to develop strategies for improving safety and health.

Please, remember to contribute goods to the BNL Food Drive. Bins are in almost every building.

The Gathering of the Slides V Concert 2/4

With the Kerry Kearney Band, Little Toby Walker, Kane Daily Band & Dee Harris

Tickets for the concert are available at the BNL Service Center. Sponsored by the BNL Music Club, the concert is open to the public all activities are free. A donation of $5 per adult and $1 per child will be accepted at the door.

Hospitaity Valley Dessert Party, 2/11

The Hospitality Committee will host a Valentine's Party on Sunday, February 11. The party will be held at the Hospitality Cruise Center. For more information, contact Roger Stoutenburgh, (631) 344-2345.

**New DOE Rule to Enhance Safety, Health of Workers**

Rule allows DOE to fine up to $750 per violation, per day

This month, DOE will take additional steps to ensure compliance with the new DOE Safety, Health of Workers rule, as described in the Valence Model for Truthful Reporting (VMTR) and at DOE’s Standard Operating Procedure (SOP) that describes how to plan and conduct work in a safe manner at the Lab. A new federal regulation known as the New DOE Rule to Enhance Safety, Health of Workers, DOE’s Office of Safety and Health, and the Office of Scientific Research (OSR) are working closely to ensure that the new rule is implemented.

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**Four Brookhaven Lab Physicists Named AAAS Fellows**

Four Brookhaven Lab physicists — Roger Stoutenburgh, John Gavel, Eenit Suthagar and Vidyadhar Srinivasan — have been named to the AAAS Fellowship, a recognition of lifetime achievement in science. The 2007 Fellows were selected by the AAAS Fellows Committee for meritorious and outstanding contributions to the advancement of science.
**In Memoriam: Victor P. Bond**

V. Victor Bond, 87, whose Y service to BNL as a physicist earned him the title of Fellow of the Laboratory, died on January 22, 2007, at his home in New York City. Born in Santa Clara, California, on July 1, 1919, Bond received both his Bachelor of Arts, in 1940, and his Master of Science, in 1941, at the University of California (UC) Berkeley. He received his Ph.D. at UC San Francisco in 1945, and in 1948 he completed his doctorate at UC Berkeley. In 1952 he served in the United States Navy, 1945-1945, heading the Los Alamos Scientific Laboratory. He founded the National Center of the U.S. Naval Research Laboratory, 1948-1948. Remaining in the private sector, he retired in 1988.

**Four Brookhaven Lab Scientists Named AAAS Fellows**

The American Association for the Advancement of Science (AAAS) has elected four Brookhaven Lab physicists to its 2007 class of Fellows, recognizing them for their contributions to science. The physicists are: Gordon Danyi, a retired BNL physicist, for his "sensational contributions to solar physics"; Elizabeth Liu, a BNL physicist, for her "seminal contributions to the fields of radiation biology and cell biology, and radiation pro- tection research"; Mei-Ling Tang, a BNL physicist, for her "seminal contributions to condensed matter physics and quantum information"; and Jonathan Essner, a BNL physicist, for his "seminal contributions to the fields of radiation biology and cell biology, and radiation protection research." These four are among 4733 AAAS researchers selected for election to the society’s Fellows program this year. At the AAAS Annual Meeting in February, the scientists will deliver brief presentations to their colleagues and the public and will be recognized by AAAS President Bruce Alberts and AAAS CEO John Factor.

**BSA News Roundup**

- **BSA Noon Recital**: Anna Stoycheva, 2/21
- **BSA Noon Recital**: Stefania Tobias, 2/21
- **BSA Noon Recital**: Adrian Rea, 3/7
- **BSA Noon Recital**: Christian Chiaverini, 4/11
- **BSA Noon Recital**: Benoit Ferging, 5/16
- **BSA Noon Recital**: Daniel Weidman, 6/21

**The Bulletin**

February 2, 2007

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**Calendar**

**Tuesday, February 20**

- **2007 Mini-Semester Program**: Preparatory Phase
- **2007 Mini-Semester Program**: Block I (February 26 - March 9)
- **2007 Mini-Semester Program**: Block II (March 12 - March 23)
- **2007 Mini-Semester Program**: Block III (March 26 - April 2)

**Wednesday, February 21**

- **2007 Mini-Semester Program**: Block II (March 12 - March 23)
- **2007 Mini-Semester Program**: Block III (March 26 - April 2)

**Thursday, February 22**

- **2007 Mini-Semester Program**: Block III (March 26 - April 2)

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**BSA Noon Recital**: Anna Stoycheva, 2/21

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**The Bulletin**

February 2, 2007
This document contains information about various activities, seminars, and appointments. It also discusses the career of a distinguished physicist, Victor Bond, and includes a notice about a luncheon and a retirement counseling program.
Budget Update

This month, DOE will take additional steps to ensure continued funding for RHIC, as discussed in the current continuing resolution expires on February 13. Some pessimists predict that a government shutdown would increase the budget outlook for RHIC due to an anticipated earlier start date. The DOE funding ap

Superradiance Observed in FEL

A team of researchers at BNL has generated extremely short light pulses using a novel technique that could be used in the next generation of light source facilities around the world to catch molecules and atoms in action. Published on January 19, 2007, in Physical Review Letters, the research team’s findings describe how intense, ultrafast pulses of light could help scientists construct the interior of atoms and molecules at the speed of light.

The research team, led by J.C. Dallas, who is currently a postdoctoral associate at BNL’s Nuclear Physics laboratory, used intense, ultrafast laser pulses to make the electrons in atoms and molecules jump from one energy level to another. The method is known as superradiance, and it has the potential to open up new possibilities for experiments using attosecond light pulses, which are incredibly short and can reveal the inner workings of atoms and molecules.

The research team’s findings are expected to have significant implications for the field of physics, particularly in the areas of molecular and atomic physics, as well as in materials science and chemistry.

For more details on this story, visit www.bnl.gov/physics/dallas/p_120708.html.

The Gathering of the Slides’ V Concert/2, 2/4

With the Kerry Kearney Band, Little Toby Walker, Kane Daily Band & Derek Har

Holiday Hospitality Dinner Party, 2/11

The Hospitality Committee will host a Valentine’s Party on Sun-

February 2, 2007

New DOE Rule to Enhance Safety, Health of Workers

Rule does fine to labs up to $70K per violation, per day

Text of DOE’s FIP rule is emerging as it prepares to protect the current continuing resolution expires on February 13. Some pessimists predict that an additional $3 million to $4 million is needed to comply with the following:

1. A final FIP rule is due to be released on or before March 31, 2007.
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