Stunning discovery has opened up a host of new questions about neutrinos and their properties — questions that scientists are currently in a global race to answer. Whether cultivating the quark-gluon plasma. Beam intensity — ever seen in a projection for what is certain: Lowenstein won't be speechless. “I was totally taken by surprise at Los Alamos National Laboratory in 2009. She has...
THE 2010 RHIC/AGS USERS’ MEETING, INCLUDING THE 90-50-10 CELEBRATION

Photos by Roger Shoemaker
With Lab Director Sam Aronson (right) are (from left) Burak Alver, Massachusetts Institute of Technology; Michael Cummings, University of Colorado at Boulder; Tony Damour, Institute for Advanced Study, and Helen Caines, Yale University.

The Bulletin continues on pp. 5 & 6.
Traffic Safety at Brookhaven Lab: It’s Everyone’s Issue

Summer is upon us and it’s a busy time at the Laboratory. The on-site population has increased considerably with all of the students, visitors, and guests coming to take advantage of the great opportunities BNL provides for science and education. With all this activity, the Lab’s roads are even more crowded and there are a lot of walkers and bicyclists sharing the roads.

“Each and every one of us should remain committed to driving safely, both on and off site,” said Laboratory Director Sam Aronson.

While the BNL streets seem pretty safe, we have a track record of serious injuries and fatalities related to motor vehicle accidents that leaves lot of room for improvement, added Assistant Laboratory Director (ALD) for Environment, Safety & Health George Goode.

The Lab site had 20 motor vehicle accidents to date this year, compared to 49 in all of last year. Most of these occur when drivers back out of parking spaces, but some are also caused by speeding, angering in injuries, damages, and significant costs.

“Due to this potential, the Lab introduced a new approach to traffic safety that included clear and consistent consequences for those who fail to follow traffic regulations and put the health and safety of themselves and others at risk.”

The “disciplinary actions for traffic violations are graded into three levels, with serious consequences for Level 3 violations including but not limited to a day off without pay and required training,” Goode said. See the Traffic Safety subject area for details, https://sites.bnl.gov/sbms/search/230/273894.sfl.

In addition, the regulations will be enforced uniformly across all employee levels, as well as users, guests and contractors. Lab leadership, including ALDS, is directly involved in ensuring that all specified disciplinary measures are taken in a timely manner.

“Despite this effort and ongoing enforcement by Lab police officers, we continue to observe many violations,” Goode said. “In fact, employees regularly report back to me their concern about drivers speeding, rolling through stop signs, not using hands-free cell phones, not stopping for pedestrians at crosswalks, and violating other traffic regulations.”

“We’ve got to do better,” Goode added.

The Lab recently instituted several new traffic safety measures that help build a culture of safety and encourage greater compliance with traffic safety regulations.

For example, added ALD for Environment, Safety & Health Ed Nowak, manager of the Safety and Health Services Division, “The Lab is now requiring its New York DMV-approved course.” The course is open to BNL, BSA, and DOE employees, facility-users, guests, and contractors. Lab members, including retirees, and their families. The cost is $33 per person. Preregistration is required. To register, call Ed Sieta, 821-1013, and leave a message.

A New DMV course will be held in two parts, on Monday and Thursday, July 26 and 29, in the Brookhaven Center South Room, 6-9:15 p.m. The course is open to BNL, BSA, and DOE employees, facility-users, and their families. The cost is $33 per person. Preregistration is required. To register, call Ed Sieta, 821-1013, and leave a message. Or take a New York DMV-approved course (Use code: “SAVE10” for $10 discount) online: http://www.lhnresources.com.

To prevent serious incidents from happening at the Safety and Health Management Office (QMO) and the Safety and Health Services Division, a series of “Occurrence Reporting and Processing System” (ORPS) reports indicated new and near misses to identify emerging safety trends and issues. One of these is fire hazards.

“The Laboratory has experienced several small fires, plus incidents that could have sparked a fire, in recent months,” said Helen Todosow, QMO. “These events reflect the full spectrum of activities at Brookhaven, including construction, scientific experiments, and cigarette disposal. In this dry, hot summer months, these events pose an increased risk and concern for all of us.”

Here are a few examples of recent events and suggestions for how you can help prevent future incidents:

**Scientific Experiment Fires**

Research and experimental activities can involve the potential for fire. Recently, a researcher was taking a sample of phosphorus when small pieces of the substance were quickly closed and placed into a fume hood. The fire self-extinguished and the researcher was not injured. The researcher was wearing appropriate personal protective equipment (PPE), including gloves, lab coat, and safety glasses.

"This fire demonstrates how important it is for researchers to wear proper PPE when conducting experiments," Todosow said. According to Todosow, “Any evidence of past or extinguished fires or fire damage should be reported to your ESH coordinator, your building Emergency Services, and management.”

**Smoking-Related Fires and Near Misses**

Five known smoking events and one fire in cigarette butt disposal containers (also known as “Butt Stops”) have occurred across the Lab site in the past three months.

“As a point of reference, the Lab had only two similar events the previous year,” Todosow said. "Fortunately, most of the recent events were contained, and all were discovered and extinguished in a timely manner. However, the recent flurry of site-wide cigarette-related events is a reminder to everyone to be aware of potential smoking and fire hazards and to take precautions as needed.” Todosow concluded.

**Fire Safety Recognition and Preventing Fire Hazards On Site**

To minimize fire risk, abate by smoking, and extinguish completely extinguishing cigarette in containers, not throwing cigarettes into the building, and never depositing general trash or paper in Butt Stops.

Everyone at the Lab should do their part to ensure safety by periodically observing Brookhaven Stops. If a Butt Stop contains trash or is over-filled with butts, notify an ESH Office, your building manager, or Custodial Services, Ext. 8235. If smoke, fire, or suspicious sining conditions are present, contact Emergency Services at the numbers below.

The best safe practice is to stop smoking. The Laboratory Health Promotion Program has hosted Suffolk County’s “Learn To Be Tobacco Free” on site since 2001, with outstanding results. Employees, guests, spouses, family members, and others have taken advantage of this program that can change smoking behavior, changing and pharmaceutical support.

In addition, Operations, equipment, and people contribute to fire risks on site, so work behavior changes and pharmacological diligence are essential to creating and sustaining a fire-safe work environment.

If you see fire, smoke, or smoking materials, smell any smoke or burning-type odor, see any visible signs of past smol and fire damage, call the shenital Services, or the Emergency Services at Ext. 2222 or 911 from a Lab phone. From a cell phone, dial 911 or off site (631) 344-2222.

"Any evidence of past or extinguished fires or fire damage should be reported to your ESH coordinator, building manager, Emergency Services, and management,” Todosow said.

More Resources: Visit the Safety intranet at http://intranet.bnl. gov/esh for links leading to more information about the topics referenced in this article.

**Fire Safety**

**Recognizing and Preventing Fire Hazards On Site**

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**Construction Fires**

Construction and environmental restoration activities can pose fire hazards. Recently, two fires occurred at a construction site when welding slag ignited nearby materials. Advanced work planning that included fire watches ensured that these fires were quickly extinguished. Plastics and insulation can ignite very quickly if welding slag comes in contact with them.

"Always consider the possibility of potential slag or molten metal hazards that may be encountered during welding and construction activities,” Nowak said. "Special attention should be paid when working in confined areas or unusual space configurations, and when welding on new or unusual positions for the welder. Fire blankets and/or other engineer controls should be used to eliminate or control potential slag or molten metal hazards.”

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Summer Sale of July 18 Stars The National Synchrotron Light Source

Exciting science shows, tours of world-class science facilities, and entertaining activities for children and adults are all part of the fun and entertainment available at the National Synchrotron Light Source during Summer Sundays. No reservations are needed, but visitors age 16 and over must bring a photo ID. Visitors may arrive any time between 10 a.m. and 3 p.m.

The last facility visit takes place at 3 p.m. each week, and science shows will be held at noon, 1:30 p.m. and 3 p.m. each Sunday in July and August in the Research Support Building, Bldg. 400, lobby.

For more information, call 631-344-2651, check www.bnl.gov, or search Facebook for Science in the Spotlight.

June 28 — Atom-Smasher Extraordinaire: RHIC Accelerators for research, and take the synchrotron-science quiz. Be captivated as scientists illuminate the inner workings of proteins, polymers, composites, and more. Learn about NIST's role in new research, and for take-home science kits and gifts. Be captivated by our scientists, demonstrations, and our in-house gift shop.

July 5 — Family Fun Day

Bring the family for a fun-filled day of hands-on science!

August 1 — Storm Trackers: National Weather Service August 5 — Atom-Smasher Smash: RHIC Accelerators for research, and take the synchrotron-science quiz. Be captivated as scientists illuminate the inner workings of proteins, polymers, composites, and more. Learn about NIST's role in new research, and for take-home science kits and gifts. Be captivated by our scientists, demonstrations, and our in-house gift shop.


August 22 — For Sale: 3.25 acres, $165,000. (2) 4’ & (1) 5’ wood gate. 3 Bldg sites on property, 1 in front of property & 1 on side of property. 3-1 bedroom units. 2-car garage. 2 bath, 1-1 1/2 bath. For Sale: 3.25 acres, $165,000. (2) 4’ & (1) 5’ wood gate. 3 Bldg sites on property, 1 in front of property & 1 on side of property. 3-1 bedroom units. 2-car garage. 2 bath, 1-1/2 bath. Tax ID #15428 to Diana Hubert, HR, Bldg. 400, ext. 7443 or porqueddu@bnl.gov. ext. 7443 or porqueddu@bnl.gov.

August 29 — Yard Sale — 12, 4 tickets, $60/ea. Barbara, Ext. 3313.