

A Message From the Director

By Sam Aronson,
Laboratory Director

We're now concluding fiscal year 2012. As the year comes to a close, I want to say "thank you" to all of you. I appreciate the continued hard work and dedication of the Brookhaven Lab community in what has been a challenging year. We've worked hard to pursue our science mission and tackle our safety and operational concerns. I'm grateful to be a part of this Lab community, and I value all that each one of you contributes every day.

This final stretch of the fiscal year also means deadlines, budget requirements, and safety concerns are on our minds. But



Sam Aronson

a deadline can be like a double-edged sword. On the one hand, deadline pressure can cause distraction. We might multi-task or rush, putting our projects, ourselves, and others at risk. On the other hand, deadlines

make us focus on our goals — and in doing so we should remember to use the right tools, follow our work plans, and maintain a questioning attitude. This is a good time to review the "Am I Ready" checklist on the Human Performance Improvement website: <http://1.usa.gov/ULHybC>. It's a handy reference and I encourage you to take a moment to read it.

See *Director's Message* on p. 2

Working Together to Capture BNL Inventions

By Walter Copan, Manager, Technology Commercialization and Partnerships, and Dorene Price, Chief Intellectual Property Counsel, Legal Department

Everyone at Brookhaven Lab is passionate about discovery, and commercializing our scientific and technological breakthroughs is an essential part of the Lab's mission and future growth. In fact, great moments of discovery can occur all across the Lab, both in science and operations directorates. These could be advances in science and technology, but also new ideas for improving operational processes.

By properly identifying and protecting these discoveries early, the individuals involved and the Lab as a whole can benefit in many ways — prestige, industry partnerships, additional research funding, royalty revenue for the Lab, and royalty income paid to the inventor.

This early identification is essential as key elements of the America Invents Act become effective. Most notably, the U.S. patent system will switch from the present "first-to-invent" system to a new "first inventor-to-file" system for patent applications filed on or after March 16, 2013. If an invention is publicly disclosed before a patent application is filed, patent protection for the discovery may be compromised or lost.

Technology Transfer At BNL

Brookhaven's Office of Technology Commercialization and Partnerships (TCP) fosters commercial development of inventions and discoveries made at the Lab through licensing patented technologies and by facilitating partnerships for advanced research and development, toward the market deployment of Laboratory findings. TCP is an office serving the entire Brookhaven Lab community from within the Global and Regional Solutions Directorate (GARS). TCP and GARS were created as part of the Blueprint, the Lab's plan for



Walter Copan



Dorene Price

growth and development. TCP works closely together with the Intellectual Property Legal Group (IPLG) of the Legal Department to achieve technology transfer.

Technology transfer moves research discoveries into practical use, positively impacting our economy, improving our world, and fulfilling the mission of DOE's Office of Science to address the nation's scientific challenges.

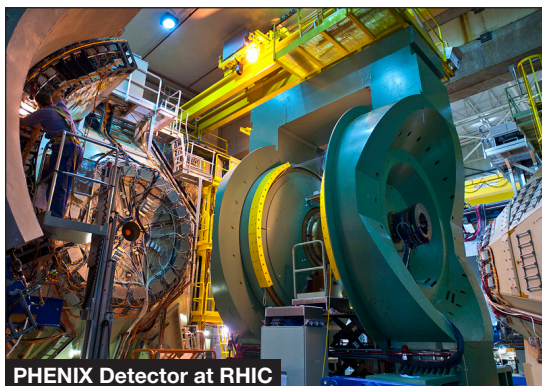
The technology transfer process starts with you. You may generate a result or discovery at BNL that may be an invention. An invention is the discovery or creation of something new — for example, a composition, material, process, method, design, or software — or improvements of any existing ones. BNL relies on you to recognize that you have made an invention and submit a record of invention to the Intellectual Property Legal Group (IPLG) or to a TCP licensing specialist.

Protect Intellectual Property

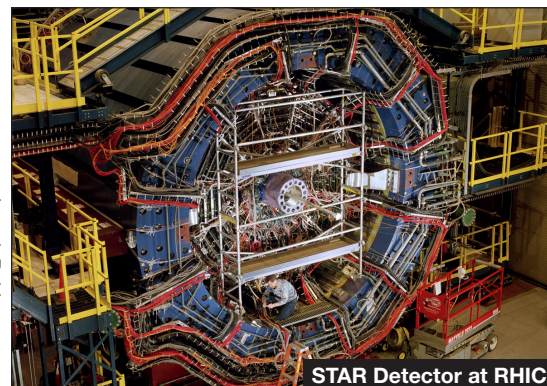
It's important to identify your discovery, unexpected result, or new approach as an invention early on — before you prepare an article for publication or an external presentation about it. If you're not sure you have an invention, ask us in IPLG or TCP. It's always better to ask than to let a potential invention go unrecognized and a deployment opportunity be lost.

If companies do not have access to intellectual property (IP) protection (including patents or copyrights), they often will not take the risk to develop the technology further. Brookhaven Lab's process of technology transfer aims to bring your invention to the marketplace. This typically...

See *BNL Inventions* on p. 2



PHENIX Detector at RHIC



STAR Detector at RHIC

Roger Stoulenburgh CNS-13-01

A Compelling Case for RHIC's Future

By Steve Vigdor,
Associate Laboratory Director for Nuclear and Particle Physics



Steve Vigdor



Inside the RHIC tunnel

R.S. D0230208

As Sam Aronson pointed out in the Monday Memo of September 10, a Nuclear Science Advisory Committee subpanel chaired by Bob Tribble of Texas A&M University is charged with recommending priorities for U.S. nuclear physics funding under very constrained budgets. The 2007 Long Range Plan for Nuclear Physics proposed ambitious construction and operations plans under the assumption that U.S. funding for physical sciences research would double from 2007 to 2017. Actual budgets are falling far shorter, and the Office of Nuclear Physics (ONP) within DOE's Office of Science has been told to plan for flat budgets for the next several years.

Challenging Dilemma

In this climate, it is unlikely ONP can support healthy operations at both the Continuous Electron Beam Accelerator Facility (CEBAF) at Jefferson National Accelerator Laboratory and the Relativistic Heavy Ion Collider (RHIC) at Brookhaven Lab, together with construction of the Facility for Rare Isotope Beams (FRIB) at Michigan State University (MSU).

This creates a very challenging dilemma for the U.S. nuclear science community at a time when RHIC has essentially completed and CEBAF is close to completing substantial upgrades that promise to extend research programs of high visibility and productivity, while the FRIB project has begun with substantial funding from the state of Michigan and MSU.

Presentations Made September 7

The Tribble Subpanel held open hearings in Rockville, MD, September 7-9, to gather information on recent accomplishments and plans for these three nuclear physics facilities and research subfields. We made our presentations on RHIC and

relativistic heavy ion research on September 7, buoyed by the success and excitement of the mid-August Quark Matter 2012 conference and media briefing we hosted in Washington, D.C.

White Paper With Strong User Community Input

In preparation for the Tribble hearings, we developed — with strong user community input — a white paper to make the case for continuing RHIC operations as clearly and compellingly as possible. In parallel, interested users have been developing a white paper detailing the science case for a future Electron Ion Collider such as eRHIC, proposed for the mid-2020s. Other relevant activities include securing support letters for RHIC operations from its user community (signed by more than 700 scientists) and industrial partners.

The essence of the case we have made is summarized in the opening paragraph of the RHIC white paper: "RHIC is in its prime: it is poised to address a host of compelling science questions that remain or have been raised by the important discoveries to date; the facility performance continues to improve dramatically; the user base remains energized and committed; the Nuclear Physics community's visions for the long-term future of QCD-related research are best realized using RHIC as a primary base."

RHIC's Unique Role

The case we presented to the Tribble Subpanel placed primary emphasis on the compelling open science questions that can only be addressed at RHIC (or by the combination of RHIC and the Large Hadron Collider at CERN) and RHIC's clear plans to answer these questions over the coming decade by exploiting recent, ongoing, and proposed facility upgrades.

Essential Additional Points

These science arguments are necessary, but, likewise, the other major nuclear science facilities also worked hard to present strong cases. Thus we also tried to drive home several essential additional points:

- **RHIC's productivity is extraordinary** within the field — over 350 published papers, cumulatively attracting about 35,000 citations, five cover stories in major science magazines and journals, about 350 Ph.D.s produced, and well over 150 tenured faculty and research staff positions filled by RHIC scientists over the past dozen years, with no rate falloff in sight on any of these metrics
- **RHIC's intellectual connections** to other physics forefronts are unusually broad and deep among nuclear physics research areas
- **Foreign investment in RHIC**, especially from the RIKEN Institute of Japan, has been extraordinary
- **A cost-realizable path to an electron-ion collider** requires taking advantage of — rather than trying to replace — the RHIC complex, which would cost about \$2 billion to build today
- **It is naïve to ignore history's lessons** and assume that funding "freed" by terminating operations at a major facility will be available to redirect as the nuclear science community desires.

As summarized at the end of the RHIC white paper, "The most sensible approach to a several-year budget crisis is to find creative ways to exploit the resources that have been built up by past investments, as long as they are still operating at full efficiency."

While the budgetary dilemma for U.S. nuclear science research poses a significant risk for Brookhaven Lab, we feel that we have made a compelling case that the health of the field would suffer severely if RHIC operations were terminated. We will have to wait until January 2013, when the Tribble Subpanel report is due, to see if our arguments have succeeded.

Save the Date & Time: 10/3, 9-10:30 a.m. Coffee and Conversation in the Cafeteria (Bldg. 488)

Lab Director Sam Aronson will host a "Coffee and Conversation" gathering for all employees on Wednesday, October 3, from 9 to 10:30 a.m., in Berkner Hall cafeteria, with Deputy Director for Science & Technology Doon Gibbs, Deputy Director for Operations Mike Bebon, Associate Laboratory Director for Nuclear & Particle Physics Steve Vigdor, and Chief Financial Officer Suzanne Davidson. See p. 2.

CALENDAR
OF LABORATORY EVENTS

• The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 4873.

— REGULARLY —

Weekdays: Free English for Speakers Of Other Languages Classes

Beginner, Intermed., Adv. classes, various times. All welcome. Learn English, make friends. See <http://www.bnl.gov/esol/schedule.asp> for schedule. Jen Lynch, Ext. 4894.

Mon. & Thurs.: Yogalates

Noon–1 p.m. at the Rec Hall (Bldg. 317). Registration required. Ext. 2873.

Mon. & Thurs.: Kardio Kickboxing

12:15–1:15 p.m. in the gym (Bldg. 461). \$5 per class. Ext. 2873.

Mon., Tues., Thurs., & Fri.: Tai Chi

Noon–1 p.m., B’haven Cntr (Bldg. 30), N. Rm. Free. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Mondays: Pilates

5:30–6:30 p.m., Rec. Hall (Bldg. 317), Registration required. Ext. 2873.

Tuesdays & Wednesdays: Zumba

Tuesdays: Noon–1 p.m., in gym (Bldg 461). Wednesdays: 5:15–6:15 p.m., at the Rec Hall (Bldg. 317).

Tuesdays: Hospitality Welcome Coffee

10:30 a.m.–noon at the Rec Hall (Bldg. 317). Meet over coffee. Children welcome. Ext. 2873.

Tuesdays: Free Knitting Lessons

2–4 p.m. Rec. Hall, Bldg. 317. All are welcome. Free materials & instruction.

Tuesdays: Toastmasters

Two monthly meetings: 1st & 3rd Tuesdays, 5:30 p.m., Bldg. 463, Room 160. Guests and visitors welcome. www.bnl.gov/bera/activities/toastmasters/.

Tuesdays: Aerobic Fitness

5:15–6:30 p.m. Rec Hall (Bldg. 317).

Tuesday & Thursday: Aqua Aerobics

5:30–6:30 p.m., at the pool (Bldg. 478).

Wednesdays: Ballroom Dance

Hour-long sessions begin at 5:30, 6:30, and 7:30 p.m., Brookhaven Center (Bldg. 30). Vinita Ghosh, Ext. 6226.

Wednesdays: Play Group

10 a.m.–noon. Rec Hall (Bldg. 317). Parents meet while children play. For events, see <http://www.meetup.com/BNL-playgroup> or call Ext. 2873.

Wednesdays: Yoga

Noon–1 p.m., B’haven Center (Bldg. 30). Free. Ila Campbell, Ext. 2206, ilat@bnl.gov.

1st Wednesday of month: LabVIEW

1:30–3 p.m., Bldg. 515, 2nd fl. Seminar Rm. Free technical assistance from LabVIEW consultants. Ext. 5304, or Terry Stratoudakis, (347) 228-7379.

Thursdays: BNL Cycletrons Club

5 p.m., Brookhaven Center. First Thurs. of month. Andy Mingino, Ext. 5786.

Thursdays: Reiki Healing Class

Noon–1 p.m., Call for location. Nicole Bernholz, Ext. 2027.

Thursdays: Postdoc Social Night

6:30 p.m. ASAP Lounge (Bldg. 462). www.bnl.gov/asap.

Thursday: Judo Class

7:30 p.m. Gym (Bldg. 461). Tom Baldwin, Ext. 4556.

Fridays: Family Swim Night

5–8 p.m. Pool (Bldg. 478). \$5/family. Ext. 2873.

Free Knitting Lessons

Free knitting lessons will resume on Tuesday, October 2, at the Recreation Hall, Bldg. 317, in the apartment area, 2–4 p.m. All are welcome. Supplies and instruction will be free.

BNL Art & Crafts Wanted For Fall Show, 11/19-21

BNL artists, photographers, sculptors, and crafters — your most beautiful work is needed for the BNL Art Society’s upcoming Art and Crafts Show sponsored by the BNL Art Society, the BNL Camera Club, and the BNL Crafts Club, to be held at Berkner Hall, Monday to Wednesday, November 19–21, 11:45 a.m.–1:30 p.m.

BNL employees, retirees, facility users, guests of BNL, and family members 15 years and older, may all contribute up to three pieces. Deliver exhibits for the show to Berkner Hall, 2 to 4 p.m. on Friday, November 16, and collect them on Wednesday, November 21, 1:30 to 3 p.m. Liz Seubert or Joe Gettler, Bldg. 400C, or e-mail the information to lseubert@bnl.gov and jgettler@bnl.gov by Monday, November 5.

Our Visits Around the Lab Site For Questions and Feedback

By Frank Crescenzo, Acting Manager, DOE Brookhaven Site Office, and Sam Aronson, BNL Director

In our roles as heads of the Brookhaven Site Office and the Lab, we focus much of our time on questions of administration. Is the Lab pursuing its science mission as determined by our strategic plan, annual plan, and Brookhaven Science Associates’ contract with DOE? Are we within our budget? Are we managing environmental and safety responsibilities properly and to the best of our ability?

But there are some important questions missing from this list, which we need to include in our day-to-day mission of leading this Lab: How are you doing? How is your work going? Do you have what you need to be successful here? How can we better support your research or support efforts?

That’s why, this week, we started visiting locations all around the Lab to meet and talk with Brookhaven employees. Our goal is not to “look over your shoulder” or otherwise put pressure on you — although we realize a visit from a Lab leader can make you feel as though you’re being scrutinized. We hope you’ll see this for the opportunity it is. Tell us about your work. Ask us important questions —



Frank Crescenzo (left) with Sam Aronson

your questions. Give us honest feedback.

One of the best parts of the Brookhaven Lab culture is our forthrightness. As a group, we’re not afraid to speak up. Maybe that’s because our mission inspires the pursuit of truth and candid expression of ideas. But from wherever you get your inspiration for open conversations with colleagues, we want you to look to that inspiration when you talk with us.

By meeting you and better getting to know the reality of your day-to-day work experience, we’ll be better equipped to marshal the resources and make the decisions to help us all pursue the Lab’s mission more effectively.

Payroll Changes Coming: Email Pay Alerts, Less Paper

By Margaret Desmond, Manager, Payroll

The Payroll Office is making changes to conserve resources, save money, and provide real-time notifications to employees who use direct deposit to receive their pay.

Payroll paper statements are costly to print and distribute, and there is a lag time for them to arrive to each employee. Online payroll statements are immediate and available for you to print if and when you need them. Many employees who use direct deposit have already chosen to discontinue receiving printed statements as part of a conservation and cost-saving effort launched in early 2012. Feedback from these employees has been largely positive and, when specific problems have occurred, the Payroll Office staff has worked with employees to resolve them.

Now the Lab has an opportunity for even more cost savings through Payroll — but this will require a change for everyone using direct deposit. Early in the next calendar year, Payroll would like to eliminate paper statements for all employees with direct deposit — pending resolution of issues such as appropriately located and supplied kiosks for staff not typically connected to the Lab’s computer network.

Employees will be notified ahead of this transition. Once it does take place, we will no longer print and mail pay statements to those of you who use direct deposit. Instead, you will receive an email alert to inform you that

your payroll has been completed and your statement is ready to be viewed and printed. These email alerts will be issued on the day of your pay — every Thursday for employees paid weekly and on the last business day of the month for employees paid monthly, unless a Lab holiday or emergency event changes the pay date.

To get you accustomed to this future change, beginning with the pay received Thursday, Sept. 27, for employees paid weekly and Friday, Sept. 28, for employees paid monthly, you will receive an automatically generated email alert to your @bnl.gov email address from Payroll.

From PeopleSoft HR, which is accessible from the Lab’s intranet homepage, you’ll be asked for your user ID and password. Once logged in, you could access your current and prior payroll statements. The “printer-friendly version” option will create a PDF file to print or save to your computer. The PDF is identical to the payroll paper statement currently mailed to direct-deposit employees who have not opted to suppress receiving paper statements. The PDF also meets requirements for pay verification for when you need recent statements, such as for a mortgage application.

Employees without direct deposit will continue to receive their paper paycheck statements as usual, but are encouraged to move to direct deposit.

If you have questions, please contact me at Ext. 4841.

Director’s Message from p. 1

Safety and Operational Excellence

As I’ve written about recently, the Brookhaven Science Associates Board commissioned a management peer review last month with representatives from several Battelle-managed national laboratories and Stony Brook University (SBU). My leadership team and I have been working to address the peer review findings. This is an ongoing effort, and the following are several of the actions you’ll see:

Leadership Improvement

This week, the senior leadership team and I held a management retreat to address our own leadership effectiveness and engagement, which the peer review identified as one of its key critiques and opportunities for improvement. My team and I are not out in the field and engaging with you as often as we should, and each one of us on the leadership team must make it a priority. During this meeting, each member of the team discussed his or her plans to increase engagement with you and how they’ll assess whether it’s making a difference.

Getting to Know You Better

You may have also seen DOE Brookhaven Site Office (BHSO) Acting Manager Frank Crescenzo and me visiting just about every corner of the Lab site. These visits are for us to get to know you better — ask how you and your work are doing, find out if you have what you need to be successful, and learn from you how we can better support you.

Coffee and Conversation

You won’t have to wait for me to visit you, though, because I’m hosting a “Coffee and Conversation” gathering for all employees, Oct. 3, 9 to 10:30 a.m., in Berkner Cafeteria. I’ll be joined by Deputy Director for Science & Technology Doon Gibbs, Deputy Director for Op-

erations Mike Bebon, Associate Laboratory Director for Nuclear and Particle Physics Steve Vigdor, and Chief Financial Officer Suzanne Davidson. There won’t be any big presentations, no big announcements. This is an opportunity for us to meet and talk with you about work and life at the Lab. I encourage everyone to attend and participate, and I hope to see many of you there. The get-together will also be webcast live and archived on WBNL: <http://1.usa.gov/URr6GZ>.

Talk by Chair, ACS Committee on Chemical Safety, 10/11

The Lab has invited Robert H. Hill, Jr., of Battelle’s Atlanta Analytical Services, to speak on “Creating Safety Cultures in Academic Institutions” on Oct. 11 at 11 a.m. in the Hamilton Seminar Room, Bldg. 555. Hill is Chair of the American Chemical Society’s Committee on Chemical Safety and will speak specifically on laboratory and chemical safety concerns, and the essential elements of a strong safety culture. I’ll be attending this event along with my senior leadership team, and I expect the room will be at capacity.

Reporting Safety Concerns

Of course, part of encouraging a strong safety culture is removing barriers to reporting safety concerns. One employee suggested to the Environment, Safety & Health Directorate that the online ES&H Issues and Suggestion Form be able to accept photographs along with written concerns, to help the directorate’s subject-matter experts better understand the problems being reported. This suggestion has been implemented. Now, if you see a safety problem at the Lab, you can use your smartphone or digital camera to take a picture and upload it to the site. This picture will only be used by ES&H staff to help investigate the concern and won’t appear in presentations or other materials distributed around the Lab.

BNL Inventions from p. 1

...involves licensing it to an existing company or to a new start-up business that further develops the invention and commercializes it. It can also involve sponsored research and development collaborations to advance the invention.

Steps to Protect Your Discovery

After recognizing an invention, your first step is to complete a Record of Invention (ROI) and submit it to anyone in IPLG or to the TCP licensing specialists. (See the list of contacts on TCP’s webpage: <http://1.usa.gov/AAJvDY>) We may seek patent protection and work with you to draft a patent application for your invention after assessing its commercial potential.

We recently launched an updated IP Management System in SBMS. The goal was to create a useful guide for the Lab community to work together in understanding (1) what to do when there is an invention or discovery, (2) the important role of intellectual property, and (3) what the various pathways of IP development and deployment mean for all of us at Brookhaven Lab.

Recognition for Your Inventions

Inventors receive financial rewards when their patent applications are filed, and when inventions are successfully licensed for commercial development, each inventor directly receives a share of the revenue that is generated. The inventor’s department and the Lab also receive a portion, which provide opportunities for discretionary research and investment at BNL, including technology maturation projects. In addition to Brookhaven’s inventor recognition events, inventors are also eligible for special awards, such as the national R&D 100 awards — the “Oscars of Innovation.”

Most importantly, your inventions create the potential that your work will have a tangible impact in deployment for the benefit of the U.S. economy and to improve our world. Inventors may also have the chance to be involved in entrepreneurial activity, supporting technology transfer through direct engagement with a new or existing company commercializing the technology. This would involve conflict of interest management; therefore, alert us early so that we can help you plan for involvement in technology transfer. Please contact us with questions.

Perks for Members of The BNL Community

Brookhaven National Laboratory HEALTHFEST2012



The BNL community is invited to participate in the annual month of health, safety, and wellness events held during the entire month of October. There is something for everyone.

During this year’s Healthfest, you are encouraged to take responsibility for your personal health, fitness and safety. Coming up will be Healthfest safety demonstrations, fitness events, and the ever-popular health, safety, and fitness fair. The organizers look forward to seeing all BNLers participating throughout October at Healthfest 2012. Register for events and for a T-shirt at <http://1.usa.gov/OPWypj>. Healthfest is sponsored by Brookhaven Science Associates, and chaired by Michael Thorn, Health Promotion Program Manager in the Human Resources & Occupational Medicine Division.

Monday, October 1
Healthfest Site-wide Walk: Noon–1 p.m. Meet at Bldg. 438, Brookhaven Ave. Route: to the Weather Station and back. Rain Date: Friday, October 5

Friday, October 5
Table Tennis: 5 p.m., Bldg. 317, Recreation Hall.
Group B Singles Tournament: 5 p.m., Bldg. 317. All are welcome. Pre-registration is required. Register with George Wei, georgewei@bnl.gov.

Wednesday, October 10
400-Yard Swim: 11 a.m.–1:30 p.m., Bldg. 478, Pool
Organized by the BERA Swim Club

Thursday, October 11
Healthfest Fair & Raffle: 11 a.m.–1:30 p.m., Bldg. 488, Berkner Hall. Health screenings, raffles, exhibits, more!

Friday, October 12
Healthfest 5k Run: Noon–1 p.m., outside Bldg. 463, Biology.
“Yian-Biao Cup” Team Tournament (Day 1): 5 p.m., Bldg. 317, Recreation Hall

Monday-Friday, October 15-19
Free Trial BERA Classes: Try out the many classes that are offered on site for free or a modest fee. Go to the BERA website for more information, www.bnl.gov/bera/.

Monday, October 15
Open House at the Gym, Weight Room, Pool: 11:30 a.m.–1:30 p.m., Bldg. 478, Guided Tour. Great opportunity to ask questions and find out how to join

Wednesday, October 17
Resolving Conflicts Creatively: Talk, noon–1 p.m, Bldg. 488, Berkner Hall, Room B. Employee Assistance Program talk by Jude Treder-Wolff, sponsored by Magellan

Thursday, October 18
Preparing Yourself for Injury Prevention: Talk, noon–1 p.m., Berkner Hall, Room B. Presented by Gary Welch, BNL Physical Therapy Department

Friday, October 19
“Yian-Biao Cup” Team Tournament (Day 2): 5 p.m., Bldg. 317, Recreation Hall

Monday, October 22
All You Need to Know About Vaccines for You and Your Family: Talk, noon–1 p.m, Berkner. By Marybeth Petraco, PNP

Tuesday, October 23
Massage Day (10-minute massage): 11 a.m.–2 p.m., Berkner Hall Room B. Pre-registration is required and space is limited. Our licensed massage therapists are Sue Saffari, Nichole Bernholc, and Lisa McDermott. Call Michael Thorn at Ext. 8612 for an appointment (limited to BSA and BHSO employees).

Thursday, October 25
Biathlon: 800-yard Swim: 11 a.m.–1:30 p.m. Bldg. 478, Pool, Organized by the BERA Swim Club. Swim 800 yards as part of the Split Biathlon or just get a great workout.

Friday, October 26
Mountain Bike Ride: (5 or 8 mile routes) Noon–1 p.m., Gazebo by the ballfield. Helmets and mountain bikes are required.

BSA Scholarship Forms Available

Application forms for the 2013 BSA Scholarships are now available from the Human Resources Division. Completed forms must be sent to the Scholarship and Recognition Programs (SRP) division of the Educational Testing Service (ETS) no later than November 15, 2012. Each scholarship will be in the amount of \$2,500 per year. Stony Brook University will provide matching \$2,500 scholarships for all winners of 2013 BSA scholarships who are admitted to SBU and enroll as full-time undergraduates. For more information, see the September 21 issue of the Bulletin or contact Leesa Allen at (631) 344-2700 or Leesa@bnl.gov.

Free Flu Shots For Benefits-Eligible Employees

One of the many benefits of working for BNL is the free distribution of influenza (flu) vaccinations to all benefits-eligible, full-time and part-time employees. Getting your flu shot here at work may mean one less stop to a doctor’s office or store — and will also help prevent or limit the spread of flu at BNL. Flu vaccinations will be offered at the Occupational Medicine Clinic (OMC) from Wednesday through Friday, October 3–5. No reservation is necessary. Please have your BNL identification badge with you when you come for your flu shot. Shots will be available at the OMC (Bldg. 490) each day, as follows:

Times:	Last names starting with:
9:30–10:45 a.m.	T–Z
10:45–11:45 a.m.	N–S
1–2:30 p.m.	H–M
2:30–4 p.m.	A–G

Please wear a short-sleeve shirt, if possible, and do not call OMC to ask to receive your shot early. If you cannot get to the OMC during these times, flu shots will be available through December, or as long as the Lab’s supply lasts. All others — including retirees, students, contractors, guests, and employee family members — should obtain flu shots from their personal physicians or other preferred provider. If you have questions regarding the flu vaccine, call Ext. 3670 and ask to speak with a nurse.

One-on-One Retirement Counseling on Site

Consultants from Fidelity and TIAA-CREF will visit BNL to answer employees’ questions about their financial matters. The consultant will help you: understand the importance of protecting your assets against inflation, find the right allocation mix, learn about retirement income flexibility, and compare life-time income vs. cash withdrawal options.

Fidelity
A Fidelity Investments representative will visit BNL on November 30 to answer employees’ questions about financial matters. To schedule an appointment, please call 1-800-642-7131 or go online: <http://bit.ly/QSxiuS>.

TIAA-CREF
A TIAA-CREF consultant will visit BNL on October 2, October 5, October 10, October 15, October 23, November 7, November 13, November 19, December 3, December 12 and December 18. For an appointment, please call 1-800-732-8353 or go to <http://bit.ly/P21mSN>, select “contact” on the bottom of the page, “contact us on line,” and then “schedule a personalized advice consultation.”

Green Card Lottery From U.S. State Department

BNL’s Office of International Services is announcing news of the U.S. Department of State’s Diversity Visa Lottery program to all foreign nationals and interested members of the BNL community. This annual program makes permanent resident visas (green cards) available to persons who fit certain eligibility requirements through a computer-generated, random drawing method. Annually basis, this program allocates up to 50,000 “diversity lottery” visas, drawn randomly, to persons from countries with historically low rates of immigration to the U.S.

Only Some Are Eligible
For the fiscal year 2014, natives of the following countries are not eligible to apply because these countries sent a total of more than 50,000 immigrants to the United States in the previous five years: Bangladesh, Brazil, Canada, China (main-land born), Colombia, Dominican Republic, Ecuador, El Salvador, Haiti, India, Jamaica, Mexico, Pakistan, South Korea, United Kingdom (except N. Ireland), and Vietnam. The next application period for DV 2014 will start on October 2 at noon, Eastern Daylight Time (EDT), and continues until November 3, EDT. For information, go to: <http://1.usa.gov/NPnnZ7>.

Catch Up on BERA Trips, Events

Tickets for these trips are now on sale at the BERA Store, Berkner Hall, open Monday through Friday from 9 a.m. to 3 p.m.
Culinary Institute Of America & Boscobel House: Mon., 11/12 (Holiday Monday) Dep. BNL 8:30 a.m., Gourmet lunch incl., tour Boscobel, arr. BNL about 7 p.m. \$60/person.
Do-as-You-Please in New York City: Sat., 12/1, dep. Lab 10 a.m., dep. midtown 7 p.m. \$10/person, under 3 free on lap.
BERA Holiday Party, Fri., 12/7, \$60/person full buffet, bar, DJ, at Hotel Indigo, Riverhead. Spend night for \$72 with full breakfast.
Radio City Christmas Spectacular: Sun., 12/9, dep. Lab 7 a.m. (9 a.m. show,) then see tree, etc.; dep. NYC 3:30 p.m. \$70/person.
NY Nets: At new Brooklyn facility vs. Houston Rockets on 2/22, 2013, \$60/pp 7:30 p.m. game; and vs. Dallas, 3/1, 2013, \$75/pp for 8 p.m. game.

CALENDAR

WEEK OF 10/1

Monday, 10/1

***Healthfest Walk**
Noon. Science Ed, Bldg. 438. See agenda, left.

Wednesday, 10/3

***Coffee and Conversation**
9-10:30 a.m. Berkner Cafeteria. Event hosted by Lab Director Sam Aronson. See p.1 and p.2.

Thursday, 10/4

L.I. Pine Barrens Research Forum
8:30 a.m.-5 p.m. Berkner Hall. Day 1, Free talks. Walk-in registration for BNLers, guests. See agenda at <http://1.usa.gov/QOXOTj>

***AdoptaPlatoon Mum Sale, Day 1**
11 a.m.-1 p.m. Berkner parking lot. See below.

Friday, 10/5

L.I. Pine Barrens Research Forum
8 a.m.-noon. Student Science Symposium. Visit to Wertheim National Wildlife Refuge, Shirley. All registrants welcome. See above, 10/4.

***AdoptaPlatoon Mum Sale, Day 2**
11 a.m.-1 p.m. Berkner parking lot. See below.

***Healthfest: Table Tennis Tournament**
5 p.m. Rec. Hall. See left.

— WEEK OF 10/8 —

Tuesday, 10/9

BSA Distinguished Lecture
4 p.m. Berkner Hall. Michael J. Devine, Director, Harry S. Truman Presidential Library, will talk on “The Atomic Bombs President Truman Did Not Drop.” Sponsored by Brookhaven Science Associates, the company that manages BNL, this free lecture is open to the public. Visitors to the Lab of 16 and older must carry photo ID. See p.1.

Wednesday, 10/10

***Healthfest: 400-Yard Swim**
Noon. Pool. See agenda, left.

Thursday, 10/11

Talk on ‘Creating Safety Cultures’
11 a.m. Hamilton Seminar Room, Bldg. 555. All invited to this talk on “Creating Safety Cultures in Academic Institutions,” Robert H. Hill, Jr., Battelle, and Chair of the ACS Committee on Chemical Safety.

Arrivals & Departures

— Arrivals —	
Robert Kellermann	C-AD
Carey Koleda	Photon Scis
William Needrith	C-AD
Susanne Schubert	Instrum
Edward Williams, Jr.	F&O
— Departures —	
Matthew Ahrenstein	Physics
Carmelo Cortes, Jr.....	ITD
James Forkin	Lab Protec
Hye-Sung Lee	Physics
Hechang Lei.....	CMP&MS
Ming Ning.....	Chemistry

Golf Outing, 10/8

The BERA Golf Association will be holding its fall outing on Monday, October 8, at Rock Hill Country Club. The cost is \$65, which includes cart, a bucket of balls, and prizes. Dinner will follow after golf and will cost \$20 for non-BERA Golf players. All 2-person teams are welcome. For more information about the outing or dinner, contact Jeff Williams at Ext. 5587 or jwilliams@bnl.gov.

AdoptaPlatoon to Sell Mums, 10/4, 5

The Brookhaven Veterans Association’s AdoptaPlatoon team will hold a sale of mums on Thursday and Friday, October 4 and 5, 11 a.m.- 1 p.m. in Berkner Hall parking lot. Proceeds from the sale will be used to benefit deployed troops abroad.

Summer Sundays 2012

This fall, the BNL community can look back at another successful Summer Sundays program, which brought more than 5,400 visitors to learn about the Lab's cutting-edge science at world-class facilities. The Science Learning Center, National Synchrotron Light Source (NSLS) and NSLS-II, Center for Functional Nanomaterials, and Relativistic Heavy Ion Collider (RHIC) each welcomed visitors on one of four Sundays in July and August. All facilities received record-breaking crowds, making this one of the busiest Summer Sundays programs ever.

Visitors varied from neighbors in local communities to guests from around the world. New activities included an outdoor concert featuring foot-tapping rock, jazz, and blues bands comprised of or led by BNL employees, a roundup of magnificent bikes from BERA's Cycletron Club, a display of amazing vehicles from the Antique & Classic Motoring Club, and an exciting exhibit from the Camera Club. A new interactive "On-line Science Classroom" from Russia co-ordinated by RHIC collaborator Yuri Panebrattsev, was featured on three of the four weeks. Many visitors also tried to "Stump the Physicist" — so many in fact, that the volunteer physicists were unable to break for lunch and were answering questions from 10 a.m. straight through to 4:30 p.m.

This year's program also included a visit from Timothy Hallman, Associate Director for Nuclear Physics of DOE's Office of Science, who educated visitors on the important role of the Office of Science and the SciGirls — a PBS TV show with online activities aimed at sparking "tween-age" girls' interest in science, tech-

nology, engineering and math (STEM) and encouraging them to join the "SciGirl" Revolution.

Science talks given on each Sunday included a variety of subjects such as the "Wild Side" of the Long Island Solar Farm, Climate Change, the incredible tools used to see things on the nanoscale, and BNL's work on the ATLAS experiment at the Large Hadron Collider at CERN, Switzerland.

Laser lights were spectacular, science was magical, and of course physics was phenomenal again with Mr. Fish in the Berkner Hall auditorium. The Bio Bus that rolled in, fueled by vegetable oil and solar power, showed off its laboratory on wheels featuring a recently added scanning electron microscope.

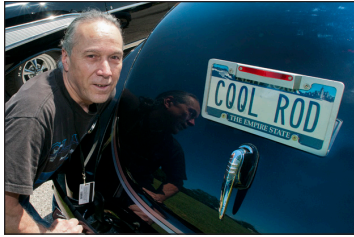
Said Nora Detweiler, who organizes Summer Sundays, "The program had a great deal to offer visitors of all ages. At the end of each Sunday the visitors were given surveys to complete, and the most common answer to the question 'What did you find MOST interesting about your visit?' was how knowledgeable and friendly the BNL staff is. That points to why the Summer Sundays program works so well year after year."

Continued Detweiler, "I would like to send out a very big 'Thank You' to the more than 400 volunteers from BNL's scientists, staff, facility users, and students, as well as DOE representatives — who all took time out of their own summer Sundays to introduce or reintroduce BNL to so many wide-eyed visitors and ensure another great success for the program in 2012."

See more photos from the 2012 Summer Sundays online: <http://1.usa.gov/QQgmFk>. — Liz Seubert



Photos by Joseph Rubino



Classified Advertisements

Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present benefits-eligible employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present benefits-eligible employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status. Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882. Access current job openings on the World Wide Web at www.bnl.gov/HR/jobs/.

To apply for a position, go to www.bnl.gov. Select "Job Opportunities," then "Search Job List."

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

TOOL & INSTRUMENT MAKER (Fabrication) (LG-11) - Regularly performs duties of a Tool & Instrument Maker, working on CNC machine tools, performs bench work to load and edit predetermined programs and correct for machine performance and/or typographical errors. Completes setup of CNC/NC equipment and monitor displays. As required, works with the CAM system programmer on the shop-floor to determine programming alternatives. Must be proficient in manual programming techniques at G-code level. Maintenance & Fabrication Division Apply to Job ID # 16207.

Motor Vehicles & Supplies

05 TOYOTA COROLLA LE - 94K mi. a/c, am/fm/cd, pwr/s/w/st, c/c, rmt/key, ABS, new batt, org owner. \$7,400 neg. Ext. 3057.
04 CHEVROLET AVEO LS SEDAN 4D - 54K mi. 1.6L 4 cyl. Fuel Inject., a/c, p/s, p/b, a/t, fm/cd/mp3, \$7,500. slaketrac@gmail.com.
01 CHEVY VENTURE - 123K mi. 7/pass, a/t, p/s, p/w, p/slidd dr, rear VHS, frt/rr a/c/heat. \$4,000 neg. William, Ext. 7627.

00 TOYOTA SIENNA XLE - 150K mi. 7/pass, 6cyl, abs, s/roof, Michelin tires, trailer hitch, well maint, \$5,000 neg. Ext. 4895.
99 TOYOTA COROLLA - 172K mi. 4 dr sdn, 4 cyl, a/t, a/c, radio/cass, MP3, air Bgs, new tires/tuned/brks. \$3,000 neg. Matibur, x 4331.
98 DODGE CARAVAN SE - 161K mi. 6cyl, a/t, abs, c/c, p/w, p/l, new t/belt, new batt, inspected. \$2,300 neg. Razvan, Ext. 5806.

Furnishings & Appliances

AREA RUGS W/PADDING - 2, Mohawk Home, 1/lg/8x10, 1/sm/5x8, shag, blue/brown tones, sel/\$150/neg, pics. Ext. 5753.
ARMCHAIR - cream Italian leather/\$70, office DESK w/shelf, 3 drwrs, u-pic-up in Bay Shore, make offers. sje@bnl.gov.
DINING ROOM SET - Formal table 44"x62," 3 leaves, 6 chrs, pics, \$600/neg. Ext. 7235.
DOUBLE STROLLER/ TODDLER BED - stroller frt/bck, blue/\$20; bed/natural wood finish w/mattress/\$40; pics, Ext. 2460.
FOOD PROCESSOR - Hamilton Beach w/3 blades/\$20. Ext. 7235 or fitz@bnl.gov.
IKEA FURNITURE - 1 wht bkcase, 4 shelves, \$20. 1 wht TV std, \$10. 681-7124.
IKEA WARDROBE, BOOKCASE - 3 dr w/robe/\$75; 6/shlf bkcase/\$50, lt oak stain, pics. Gina Hille, Ext. 8796, 521-1811.
KID'S FURNITURE - White. Bdrm. 2 identical dressers w/3 drwrs; 1 has shelf too. 1 desk. 1 corner table. All \$100 neg. 681-7124.
KITCHEN TABLE w/ 4 CHAIRS - gd cond, pd/\$500, ask/\$150, email for pics. Ext. 5215, 645-3182 or deonarine@bnl.gov.
NORDIC TRACK ELLIPTICAL - Audio Strider 800, seldom used/\$400. Gina Hille, Ext. 8796, 521-1811.
PIANO - 1954 Hamilton upright piano by Baldwin w/bench. Oak color. L55x-H45xD25". \$400 neg. 681-7124.
PORTABLE WASHING MACHINE - Haier 1/cu ft, HLP21N, orig/\$230, ask/\$80. Feng, Ext. 4388 or fwang@bnl.gov.
QU. BED SET, MORE - q/boxspring & frame incld, under 2 yr; computer desk, chr, cabinet, \$175/all, u-pic-up. 344-2817.
SOFA - pics, 88 x 34 off white w/light floral tapestry, comfortable, ask/\$200/oob. Ext. 2198, 909-7080 or lysik@bnl.gov.
TABLES - glasstop coffee; marble tp sofa tbl w/shelf, 2 drwrs; wood end tbl, marble tp storage tbl, \$60-\$150, pics. fitz@bnl.gov.
UPRIGHT PIANO - SAMICK, cherry finish, std sz w/bench, no tuning nec., also a player piano & for Karaoke, \$900. 831-4344.

Tools, House & Garden

ECHO 2 CYCLE WEED-WACKER - Commercial grade, straight shaft, ask/\$125, w/spool of line. Suresh, Ext. 5215, 645-3182.
LAWN TRACTOR - 42, w/bagger, 20HP ride-on craftsman, pd/\$1500, ask/\$650, poss. w/aerator orig/\$300. 645-3182.
PATIO SET - round tbl, metal w/4 chrs, orig/\$750, ask/\$250, throw in umbrella, email for pics. deonarine@bnl.gov.
RADIAL ARM SAW - Craftman 10" v/gd/cond, extra blades, owner's manual, \$100. Joseph, Ext. 8119 or jsullivan@bnl.gov.

Miscellaneous

BABY'S CAR SEAT & STROLLER - Graco Integrated green baby car seat stroller set/\$40, pics avail. Peter, Ext. 2460.
JOHNSON OUTBOARD - '71, 50hp, \$200. Matthew, mvscovi@bnl.gov.
MOTORCYCLE LEATHER JACKETS - black, 1/men's 1/women's, only worn once, must sell. 834-6956.
PIANO AND BENCH - Yamaha, walnut, excel cond, \$1,500. 288-3112.
SHOULDER SURGERY CRYOTHERAPY - ice water syst, tank, pump, tubing & shoulder cuff, \$100/oob. Steve, Ext. 4925.
WROUGHT IRON - 48" rnd tbl w/4 chrs, end tbl, \$200; 12 chrs \$25/ea, 2 lounge chrs/\$30/ea, 928-5185 or 283-0034.

Community Involvement

HYDROCEPHALUS WALK - 7th Annual Long Island Hydrocephalus Assoc. Walk at Belmont Lake State Park, Sat, Sept. 29. Email me for info. slattuca@bnl.gov.
KOREAN CHUSEOK PARTY - Korean BNLe's & family party for 2012 ChuSeok at Gazebo of BNL apartment area; Noon, Sat. Sept. 29; Lunch will be served. Sung Won Kim, Ext. 4398, swkim@bnl.gov.
CELIAC DISEASE/FOOD FAIR - National Convention w/expert speakers & food vendors, Oct 6, Hauppauge, great op to try new items, Michael Thorn Ext. 8612.
HARVEST FAIR BELLPORT UMC - Live Auction & Craft fair, gd food, activities for all, Sat, 9/29, 10a-4p, United Methodist Church, 185 S. Country Rd, Bellport Village. Rolf, rolf@bnl.gov.

Wanted

DOGGIE DAYCARE - Need loving, responsible pet sitter for 7 yr. old Maltese w/separation anxiety, M-F, 8a-5:30p. Sandy, Ext. 2922.

FIREARMS - Firearms wanted. I will pay fair \$\$ condition and age counts. New or Old. Please NO Firearms on BNL property. Joe, 487-1479.

MOBIGO GAMES - for girls, used/free/ reasonable or cost. Sherma, Ext. 4673 or sherma@bnl.gov.

POP TOPS FROM SODA/BEER CANS - collecting for Shriner's Children's Hospital. Please drop off or send to Bldg 400A, Transportation Office. Paula, Ext. 2535.

USED CELLO - for home practice by a 6th grade girl, 3rd yr playing. Sonya, Ext. 2937 or mcbee@bnl.gov.

Lost & Found

CELL PHONE - Found cell phone outside Center Club. Bldg 30. Lou 987-2190. .
LADIES' SUNGLASSES, 2 PR - Found in pking lot behind Bldg/179 last Fri. evening, blk case, call Tim, Ext. 4212.

For Rent

HICKSVILLE - 3 bdrm, 2 ba, nr train station, park, shops, 49 Gardner Ave, z/ code/11801. \$2,200/mo. 516-857-6358.
MANORVILLE - 2 bdrm, 2 ba, no pets/ no smkg, avail Oct 1-Apr 30, 3 mo min, furnd, util not incl. \$1,450/mo. 909-7005.
MANORVILLE - Share apt w/profess'l. gated comm, Twnhse, 2 brm, 2 ba, l/r, d/r, kitch, 10/1st-4/30, plus util, non smkr, no pets. \$750/mo neg. 847-488-1632.
MASTIC - Share Victorian 3 bdm 2 full ba house, quiet, safe n'hood, nr all, frml l/r, d/r, F/p, new big eik, own bdrm, all incl no smkg/pets. \$800/mo neg. 339-3444.
MASTIC - Cozy 2-bed, 1 ba, l/r/dr combo w/fenced yard. Small pet considered. 2 mo's sec. Avail Nov. 1. Utills not incl. \$1,525/mo. 775-8703.
MILLER PLACE - 1/bdrm apt, priv entry 15/mins to lab, int/cable incld. \$750/mo. Lester, 413-9885 or lhart@optonline.net.
N.SHIRLEY - 1 bdrm furn apt, ground flr, nr Lab & stores, pvt ent, util incl, no pets/ smkg, 1 mo rent/sec. \$850/mo. Ext. 3849.
NORTH SHIRLEY - 2/rm Studio, full kitch, lg l/r, no smkg, pets considered, 1/mo sec. \$750/mo. 909-3905.
PATCHOGUE - 1 bdrm, full kitch, furnd, priv entry. \$850/mo neg. Maria, 738-9570.
SHIRLEY - SMITH POINT ESTATE - 1 bdrm apt, l/r, full kit & ba, no smkg/pets, pvt ent/dr, util incl 1/mo sec, \$1000 single, \$1200 couple. 922-0104.

STOWE, VERMONT - Thanksgiving wk/ Nov 17-24, at Trapp family guest hse, sleeps 6, l/r, w/fp, dining area, 2 bdrms, 2 baths. \$1,125/wk. 744-5422.

For Sale

CORAM - lg 1 bdrm co-op, updated kitch & b/r, laundry across from unit, in/outdr pool & gym. \$99,900. Warren, Ext. 8329.
FARMINGDALE - Burial Plot in Pinelawn cemetary, "Garden Of Rembrance", for 2, nice view. \$2,995 neg. Frank, 433-9205.
MIDDLE ISLAND - Condo, 208 Fairview Cir, must sell now. \$45K upgrades in 4 yrs, new ba, a/c furn, tankless ht water heatr, patio dr, red oak flrs, carpet. \$139,000. 481-6544.
PT JEFF STATION - 3 bdrm 2 ba Coop, 2nd fl, new: ba'rms, w/w rugs, applis. Gated commun. w/swim pool, BBQ, laundry. Nr. SBU, BNL. \$142,000. 431-4551.
ROCKY POINT - 1/bdrm Co-op new kitch, Remodeled ba, nr all stores/rea- taurants. \$77,500 neg. William, 525-3239.
S. SETAUKET - 3/bdrm, 3ba, bsmt, gar, Three Village Green, like new, many upgrades. \$399,000 neg. 473-5957.
SAYVILLE - expnd/d ranch, 10 rms + sun rm, den w/fp; 3 br, 1+1/2 ba up, 3 rms+1/2 ba dwn, igg, cac, 1car gar, new kitch, heat system, gutters. \$350,000. 750-3385.
SAN GERMAN, NY - "NOT NY", PR/4bdrm, 2 ba, l/r, d/r, kitch, laundry, 2 gar, encl patio, nr all, great vacation home. \$127,000. Gisella, 787-246-2616.
SHIRLEY - 3 bdrm, 1 ba, low taxes, lot size 100 x 110, close to schools/shopping. \$160,000. 787-246-2616.
SMITHTOWN - High Ranch on dead end w/ rm for Mom! master bdrm + 3 more, 3 ba, 1.5 gar, attic, bsmt, dbl f/p, cac, walk to town, RR, park. \$399,000 neg. 516-808-3422.

In Appreciation

I want to thank all my friends and co-workers for their prayers, well wishes, and gift during my time away from the Lab. The gift was well used! Thank you all.
— Joseph Vignola

I would like to thank all my co-workers in Staff Services, Travel, Bldg 400 and BNL friends for calls, emails and warm wishes while I was out for the last two months. The gift basket was delicious. It's nice to be back.
— Andy Seelin

We regret omitted ads. Please re-submit.