

Particle Post April/May/June 2011

*"Coming together
is a
beginning.
Keeping together
is
progress.
Working together
is success."*

~Henry Ford

Previous issues

Note from the Chair



After a long wait for a budget Congress finally passed a continuing resolution that covers the rest of this fiscal year. The budget allows us to operate RHIC until the end of June or the beginning of July while maintaining our present staff levels. With this run length we could start this year's 100 GeV/n gold run. This is the first time that we reuse the RHIC ramp settings from a previous year. Together with the new feedback systems this led to a record fast turn-on and within just a few days RHIC was in physics mode delivering luminosity to STAR and PHENIX.

It is also time to prepare for the summer shut-down work and it will again be a very busy time for everybody. Major items are the installation of the last two planes of stochastic cooling, an upgrade of the 9 MHz cavity, preparation of the cryo system for the installation of the electron lenses in 2 o'clock and the coherent electron cooling in 10 o'clock, a new access control system for the AGS, and the completion of the new Main Control Room. We are presently planning to start the 4 K cool-down of RHIC at the beginning of December.

Administration



Although DOE has yet to release 100% of allocated funding, our current year budget is known. FY 2011 operating funds of \$126.2M along with prior year carry forward of \$8.8M provides a total budget of \$135.0M for RHIC Operations, an increase of only \$0.1M over the FY 2010 budget of \$134.9M.

With essentially no increase in funding, inflationary cost increases will erode our purchasing power. Additionally, it is critical that we preserve sufficient carry forward to fund a timely start-up in FY 2012. Thus, C-AD employees are urged to make every effort to limit expense through the end of this fiscal year. Supervisors are asked to closely monitor expense for consumables such as credit card purchases, stores withdrawals and travel. Authorization of paid overtime should also be limited. High value purchases are being tracked against procurement plans prepared by each of our group leaders and reported to management on a weekly basis.

Please be reminded that credit card and stores reports are posted to the administrative web site on a monthly basis and overtime hours by employee are available in PeopleSoft HR through the Manager's portal. Lastly, my staff remains available to assist you in accessing the financial data you need to monitor and control current year expenditures.

Operations

The CAD complex continues full operation. The RHIC Polarized Proton program concluded on Tuesday April 19th. At that time, the switchover to gold was already underway in the injectors. Setup with Gold from the Tandem for Low Energy (19.5 GeV CM) Physics was completed by the afternoon of April 22nd. The low energy physics program was successfully completed on May 1st, with both PHENIX and STAR achieving the lion's share of stated their goals. High Energy gold setup ensued and was completed during the week. Physics was declared on Friday May 6th and will continue through most of June. New systems commissioning continues including: the RHIC spin flippers, the 10Hz feedback (operational) and stochastic cooling (partially operational). Major works continue in outside areas including EBIS (operational for NSRL), ERL, EDM, eLens and VTF. At present, work to deliver high intensity gold ions from EBIS to the Booster is under way, while it remains the primary injector for NSRL beams. Set up with EBIS for gold in RHIC will begin after reaching intensity goals in the injectors. Other possible setup modes for this run include, very low energy gold in RHIC (5 GeV CM), Booster energy (400 MeV/n) Au in AtR and possibly U from EBIS in RHIC. LINAC remains on,

C-AD Occupational Injury Statistics

For Year* 2010 For Year* 2011

First Aid Cases	5	1
Recordable Cases	2	2
Lost Work Cases	1	2

* Calendar Year through 4/11

REMINDER: TLD exchange is done the *FIRST FRIDAY* of the Month.

EXCHANGE DATE: FRIDAY, JUNE 3, 2011

Pete Cirnigliario



Arrivals

Yann Dutheil joined the department on March 14. He is working with Francois Meot in the Accelerator Physics Group.

Megumi Sekine joined the department on May 12. She is working with Masahiro Okamura in the Preinjector Systems Group.

Student Arrival

Ryan Welsch joined the department on May 2. He is a Student Collaborator/GRIP Student working with Larry Hoff in the Controls Systems Group.

WELCOME!

Departure

George Meinken, Medical Isotope Research & Production retired on April 29.

GOOD LUCK!



[RHIC Newsletter](#). Please click on link to the left to view the latest web publication of RHIC News.



*We wish all of you born in **April/May/June**
a happy and healthy year ahead.
Birthday people ONLY click on cake*



C-AD Service Awards March

40 years	John Nicolellis
35 years	Cleveland Dodge
25 years	Michael Brennan
20 years	Wuzheng Meng Michael Hamilton

April

20 years	Brian Karpin Timothy Lehn
10 years	Christoph Montag

Congratulations!



DID YOU KNOW

One of my favorite Disney movies is MULAN. She is portrayed as a patriot and take charge kind of

woman, who also has a softer side which is demonstrated in her interactions with her parents and comrades. Just the type of movie to inspire young girls to go out into the world and be resourceful; so imagine my surprise when I learned that possibly Mulan was not just the figment of someone's total creativity.

Scholarly debate has raged for centuries about the existence of Hua Mulan ([Hua Mulan \(c. 4th-5th century A.D.\)](#)); the only source of her story is a poem, famous in China, called "The Ballad of Mulan."

According to the poem, Mulan's elderly father was called up to serve in the Imperial Army (during the Sui Dynasty). The father was too sick to report for duty, so Mulan dressed up as a man and went instead.

She showed such exceptional bravery in battle that the emperor himself offered her a government post when her army service was finished. A country girl at heart, though, Mulan turned down the job offer to rejoin her family.

The poem ends with some of her former comrades-at-arms coming to her home to visit, and finding out to their surprise that their "war buddy" is a woman.

As we celebrate during the month of May, 2011 Asian Pacific American Heritage Month, "Leadership, Diversity, Empowerment and Beyond ", let us recognize the spirit which is within us all to do more, be more and accept nothing less.

Georgia Thomas VP for Diversity, FEW

Dr. Ernest Courant celebrated his 91st birthday in March and it was celebrated at a Spin Meeting on March 23





BNL-Hosted PAC'11 in NYC a 'Great Success'

By Thomas Roser



Brookhaven National Laboratory hosted the 2011 Particle Accelerator Conference (PAC'11) in New York City from March 28 to April 1. This is the 24th in the series of Particle Accelerator Conferences that started in 1965 in Washington, D.C., but also is the first of the newly formed regional North American PAC. The regional North American PAC will alternate with the International PAC when it is located in North America on a three-year cycle.

PAC'11 was a great success. It attracted more than 1,000 accelerator scientists, engineers, students, and industrial exhibitors. It also continued the traditional strong emphasis on all aspects of accelerator science and technology by providing the opportunity for a large number of oral and poster presentations. In addition, we added four one-hour tutorials as introductions for junior members of the accelerator science community and, in fact, anyone who wanted to broaden his or her knowledge. The tutorials were very popular, filling the lecture hall at 8:30 in the morning each day.

On the evening before the official start of the conference, 90 graduate students participated in a student poster contest. The quality of the posters was so high the number of the awards needed to be increased from two to three.

During the conference, Derek Lowenstein, Associate Chair for Accelerator Applications and Education, organized a high school teachers day. Forty physics teachers from the area attended for a day of instruction and hands-on experiments. The program was very well received.

Preparing and organizing such a large conference is a very big effort and I would like to thank everybody involved for their hard work and the long hours they put in. The conference ran smoothly and the scientific program was excellent. I received many positive comments from conference participants. The editorial team produced the draft proceedings in record time and most papers are already available on the [conference website](#).

Following the conference, on Saturday, April 2, approximately 100 conference participants joined a bus tour to BNL and were able to visit the new EBIS pre-injector and the National Synchrotron Light Source II (NSLS-II) project, as well as the Accelerator Test Facility and the Energy Recovery Linac test facility. I extend a big 'thank you' to all the staff that came to the Lab on Saturday to showcase our facilities.

**– Thomas Roser
Chair, PAC'11 and Chairman, Collider-Accelerator Department
ros@bnl.gov**

By [Joe Gettler](#) | April 5,
2011

Pumping up the Polarization of Protons for RHIC

AGS Upgrades Help BNL Set a New World Record

The competition may have been slim, but the feat was great. With custom-built power supplies built from old inventory and 1960s quadrupole magnets pulled from storage, Brookhaven Lab's Alternating Gradient Synchrotron ([AGS](#)) can now provide researchers with five to eight percent more protons that are polarized — breaking its own world record set in 2009 for the highest polarization, energy, and intensity beams at BNL's Relativistic Heavy Ion Collider ([RHIC](#)).



Pictured are some of the many BNLers involved in upgrading the AGS, with a graphic showing the improved percentage of polarized protons — a new world record set at BNL. Front row,

from left: Louis Russo, Zeynep Altinbas, Woody Glenn, Vincent Schoefer, and Jian-Lin Mi. Back, from left: Will Jackson, Piyush Joshi, Charlie Theisen, Frank Dusek, Ken Hartmann, Pablo Rosas, John Addressi, Leif Ahrens, Yugang Tan, Wenge Fu, and Ron Zapasek. Not present: Matt Ceglia, Haixin Huang, Animesh Jain, Rob Karl, Chong-Jer Liaw, Ioannis Marnieris, Wuzheng Meng, Brian Oerter, Steve Perlstein, Steve Pontieri, Jon Sandberg, Rocco Tuccio, Joe Tuozzolo, and Arling Zhang.

In the quest to understand how the universe works by looking at the smallest subatomic particles, RHIC is the only machine in the world that can smash protons that are polarized — spinning in the same direction. Before reaching 99.9 percent the speed of light at the RHIC demolition derby, these tiny particles travel approximately one million miles through a series of linear and circular accelerators, including the AGS, to get up to speed and reach RHIC. With the new upgrade, the AGS can now keep up to 75 percent of those particles in the beam polarized while they accelerate.

“The enhancement from the new AGS quadrupoles is amplified in RHIC measurements of spin sensitivity, so an eight percent relative beam polarization improvement can reduce the time needed to reach given data quality by as much as 36 percent,” said Associate Lab Director for Nuclear & Particle Physics Steven Vigdor. “These improvements significantly advance our ability to unravel how quarks and gluons contribute to the proton’s intrinsic spin.”

“Most polarization is lost in the AGS,” said Vincent Schoefer, this year’s AGS Run Coordinator, who is responsible for the AGS’s performance during the ongoing RHIC Run 11. “Polarization figures strongly into what makes RHIC unique, so even a five percent increase counts.”

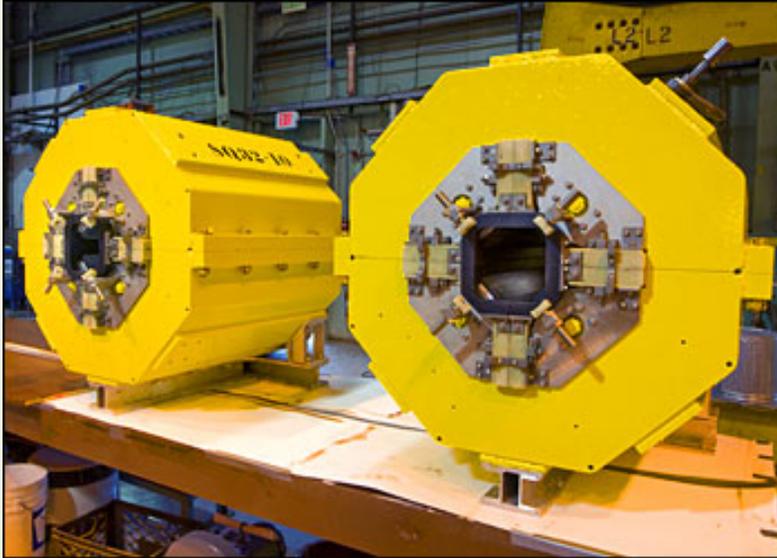
Home to three of BNL’s seven Nobel Prize-winning discoveries, the AGS is a circular accelerator more than half a mile around. This synchrotron is made up of 12 sections, labeled A through L, each containing 20 different magnets. Alternating, opposing magnetic forces focus or defocus the beam particles — hence the name “Alternating Gradient Synchrotron” — steering the particles on their way to RHIC.

Accelerating polarized protons typically wobble and become less polarized as they complete approximately two million laps in the AGS. Woody Glenn, a physicist in BNL’s Collider-Accelerator Department (C-AD) who has worked at the Lab for more than 50 years, led the project to limit this wobble and increase the percentage of protons that reach RHIC spinning in the correct direction.

With specifications from C-AD Chair Thomas Roser, Glenn turned to plans for a “Jump Quad” system that he developed and detailed with team members from C-AD — Haixin Huang, Animesh Jain, Chong-Jer Liaw, Ioannis Marnieris, Wuzheng Meng, Jian-Lin Mi, Steve Pontieri, Pablo Rosas, Jon Sandberg, Joe Tuozzolo, and Arling Zhang — for the Particle Accelerator Conference in 2009.

To minimize inherent proton-wobble problems, the Jump Quad system required custom-built power supplies and two quadrupole magnets to be installed in AGS's I and J positions. As the particles race through the AGS, two of the customized power supplies quickly pulse, hold, and pull back surges of power for each of the quadrupoles in a matter of milliseconds. Forty-two times within half a second, these pulsed currents produce magnetic kicks that keep the particles spinning in the correct direction.

"I don't know what it would have cost to buy new equipment, but it would have been a million dollars or so, and we didn't have a lot of money," Glenn explained. "So we did it with parts that we pulled out of the junkyard."



The two refurbished quadrupole magnets before being installed at the AGS.

Glenn scrounged power supplies from the Lab's previous g-2 experiment and decommissioned beam lines, and the two quadrupoles he needed sat in a scrap pile waiting for disposal. Built in the 1960s, the magnets were previously used at the AGS. Unlike many modern magnets milled from one solid block, these were assembled from a thousand thin layers laminated together — a design by BNL retiree Gordon Danby, who with retiree James Powell held the earliest patents for Maglev technologies. Glenn realized that the magnets could be pulsed because they were laminated, and he designed a way to shim the layers for the correct geometry.

The quadrupoles were scrubbed, scraped, painted, and outfitted with new coils and shims. The Lab's Superconducting Magnet Division tested the first prototype before the installation.

"We couldn't just turn this on and have it work," added Glenn. "Commissioning this unique system required

help from a large group, including Run Coordinators Haixin Huang and Vincent Schoefer, Lead AGS Physicist Leif Ahrens, and our physicists, programmers, and the operations staff at C-AD for more than a year.”

“This AGS upgrade to increase the proton polarization for RHIC was truly a tour-de-force achievement that only could have been done with tremendous amounts of know-how, resourcefulness, and teamwork. Congratulations to everyone who was involved,” said Roser.

Glenn, Schoefer, and their team in C-AD do not consider this case closed just yet. As they continue to adjust the timing for when the quadrupoles pulse and better control the particles’ orbit, they hope to increase the polarization of protons produced for RHIC again — and set the next world record for BNL.

Message From the Director on Maurice Goldhaber's Passing

I regret having to share with you some sad news -- former Lab Director Maurice Goldhaber died Wednesday night after a short illness. Just this past April 18, we celebrated Maurice's 100th birthday.

As a Distinguished Scientist Emeritus and highly honored physicist, Maurice truly left his mark on our Laboratory. In 1950, he and his wife, nuclear physicist Gertrude Scharff-Goldhaber, joined BNL. He was Physics Department Chair from 1960-1961 and Laboratory Director from 1961-1973. Even after retiring in 1985, Maurice continued his research at the Lab for many years.

As Lab Director, Maurice instigated and presided over an extraordinary period of scientific productivity. As a measure of the general scientific ambiance he provided, three Nobel Prizes were awarded in high energy physics for work at BNL during his tenure. The medical research that indicated the substantial role of sodium concentration in the development of hypertension in sensitive subjects and the value of the drug L-dopa in treating Parkinsonism and related diseases was also conducted at BNL during that time.

Maurice's remarkable achievements in research, teaching, and administration made him one of the world's most distinguished nuclear and particle physicists. In 1934, with James Chadwick from the Cavendish Laboratory at Cambridge, he was the first to measure accurately the mass of the subatomic particle known as the neutron, showing that it was not a compound of a proton and an electron as was believed at the time, but a new particle. In addition to measuring the mass of the neutron, he contributed to the discovery of the nuclear photo-effect, the role of spin in nuclear reactions, observing the helicity of the neutrino, and a wide variety of additional physics research.

Maurice's scientific contributions earned him many awards, including the Tom W. Bonner Prize in Nuclear Physics in 1971, J. Robert Oppenheimer Memorial Prize in 1982, National Medal of Science in 1983, Wolf Prize in Physics in 1991, and Enrico Fermi Award in 1999. He was elected as member of the National Academy of Sciences and Fellows of the American Academy of Arts & Sciences, American Association for the Advancement of Science, and American Physical Society, of which Maurice was president in 1982.

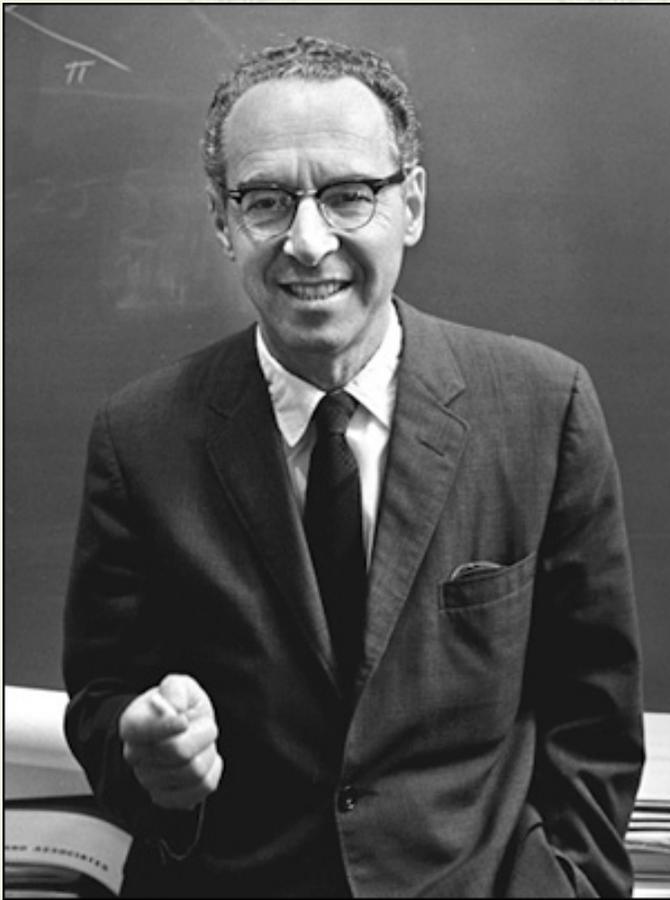
To this day, Maurice's positive effect on fellow scientists and scientific research is evident at the Lab and elsewhere. Brookhaven established the annual Gertrude and Maurice Goldhaber Distinguished Postdoctoral Fellowships in 2001. Many Goldhaber Fellows have become staff members, and some moved on to tenured positions at universities and Brookhaven. And we remember the "Neutrino Helicity at 50" symposium in 2008 to celebrate the half-century-old Goldhaber-Grodzins-Sunyar experiment on neutrino helicity, a landmark among elegant table-top experiments that had a major impact on particle physics.

Maurice was a valued friend to the Lab community. His insight, intellectual curiosity, and wit will be sorely missed, but the influence he had on the Lab remains.

- Sam Aronson, Laboratory Director

By [Liz Seubert](#) | May 13,
2011

In Memoriam: Maurice Goldhaber, Former Brookhaven National Laboratory Director



Maurice Goldhaber

Maurice Goldhaber, a prominent physicist and a former director of Brookhaven National Laboratory, died on May 11 after a short illness.

Goldhaber had celebrated his 100th birthday on April 18, 2011. He was born in Austria, and earned his Ph.D. in physics at Cambridge University in 1936. In 1938 he came to the U.S. as a faculty member of the University of Illinois. He joined Brookhaven National Laboratory in 1950, along with his wife, the late nuclear physicist Gertrude Scharff-Goldhaber. At Brookhaven Lab, he served as chair of the Laboratory's Physics Department from 1960 to 1961, and as Laboratory Director from 1961 to 1973.

Goldhaber's research in the fields of nuclear physics and fundamental particles included experiment, systematics, technique, and theory. He made numerous significant contributions that helped to establish parts of the theory of subatomic physics now known as the standard model. In 1934, with James Chadwick from

the Cavendish Laboratory at Cambridge, he was the first to measure accurately the mass of the subatomic particle known as the neutron, showing that it was not a compound of a proton and an electron as was believed at the time, but a new particle. In addition to measuring the mass of the neutron, he contributed to the discovery of the nuclear photo-effect, the role of spin in nuclear reactions, observing the helicity of the neutrino, and a wide variety of additional physics research.

With some reservations, he also put forward some speculations, including what became known as the Goldhaber-Christie model (which has been cited as a precursor of the quark model), the notion of the doubling of fermions (which has been cited as helping promote the search for the second neutrino), and the notion of the cosmos originating in one of two particles produced together, the "cosmon" and the "anti-cosmon" (which has been cited as a precursor to ideas of the multiverse current today).

As Laboratory Director, Goldhaber instigated and presided over an extraordinary period of scientific productivity at Brookhaven. Research during his tenure resulted in major discoveries in physics, three of which eventually garnered Nobel Prizes. Medical research that indicated the role of sodium in the development of hypertension and the value of the drug L-dopa to treat Parkinson's disease was also conducted at the Laboratory during that time.

Goldhaber retired in 1985, but he continued his research at the Laboratory until he was well into his 90s. He told those who saw him working long hours in his later years, "I don't have time to age." To acknowledge his significant contributions to physics and Brookhaven Lab, he was named Distinguished Scientist Emeritus at the Laboratory after his retirement.

Brookhaven Lab Director Sam Aronson said, "Maurice Goldhaber was a valued friend to the Lab community. His insight, intellectual curiosity, and wit will be sorely missed, but the influence he had on the Lab remains."

For many years the Harvard Physics Department has awarded annual prizes to distinguished graduate students in the names of Gertrude and Maurice Goldhaber. In 2001, Brookhaven Lab created the annual Gertrude and Maurice Goldhaber Distinguished Postdoctoral Fellowships at Brookhaven Lab. In 2008, the Lab held the "Neutrino Helicity at 50" symposium to celebrate the half-century-old Goldhaber-Grodzins-Sunyar experiment on neutrino helicity, a landmark among elegant table-top experiments that had a major impact on particle physics. In 2009, Magdalene College, Cambridge University, established the Maurice Goldhaber Prize for Natural Sciences or Mathematics, in honor of alumnus Maurice Goldhaber, and in 2011, the University of Illinois Physics Department established a graduate student prize in his name.

Goldhaber's productive career has won him numerous awards, including the Tom W. Bonner Prize in Nuclear Physics in 1971, the J. Robert Oppenheimer Memorial Prize in 1982, the National Medal of Science in 1983, the Wolf Prize in Physics in 1991, and the Enrico Fermi Award in 1999.

Goldhaber was a member of the National Academy of Sciences and a fellow of American Academy of Arts

& Sciences, the American Association for the Advancement of Science, and the American Physical Society, of which he was president in 1982.

Survivors include his sons Alfred Scharff Goldhaber and Michael H. Goldhaber; his grandchildren, David Goldhaber-Gordon and Sara Goldhaber-Fiebert; and four great-grandchildren, Zev and Shira Goldhaber-Gordon and Eytan and Miriam Goldhaber-Fiebert.

Messages from colleagues:

From Martin Blume of the Physics Department, a former BNL Deputy Director and retired editor-in-chief of the American Physical Society: "Maurice was a unique icon in the annals of physics. I was happy that I had the opportunity to learn so much from him, particularly during our discussions on physics and many other matters when I drove him to BNL (his house in Bayport was a short distance from mine in Sayville). This lasted nearly a decade, and was a most interesting time, although he became more frail (but his mind didn't) as time went by. It was good that he made it to his 100th birthday."

From Peter Bond, Senior Advisor to the Director: "I fondly recall my interactions with Maurice over the years, which began with my visit to BNL in 1972. I greatly enjoyed his reminiscences of interactions with the physics greats of the early 20th century. One of the greatest compliments I heard about his science was from Nobel Prize recipient Georges Charpak, who described the neutrino helicity experiment as the most beautiful experiment he knew. Perhaps as impressive to me was his broad knowledge of science in many fields that allowed him to ask penetrating questions and to come up with creative new ideas in many of those areas. Coupled to his continual creative ideas were his famous quips — one I have come to particularly appreciate is 'Physics teaches old things to new people.'"

FUN TIME

This will drive you bonkers but it will also keep your mind alive. Something to entertain yourself while having cabin fever (or not). Move your cursor numerically over the numbers starting with 1, then 2 etc. to see how fast you can get to 33. You don't click the number you just touch the number with the cursor. This is a good one for keeping your brain sharp (thanks Kathy!):

<http://www.chezmaya.com/jeux/game33.htm>



BAR-B-Q

WHEN: Tuesday, June 21, 2011

12 Noon - RAIN OR SHINE

WHERE: BNL Gazebo

**All BNL Employees,
Past & Present, Friends and Families,
All Are Welcome!**

Bring Your Own Lawn Chair

\$8.00 Per Person

\$10.00 after 6/15/11

& at the Bar-B-Q

No Refunds!



MENU

Chicken
Burgers
Hot Dogs
Sausage

Veggie Burgers
Salads
Chips
Cookies
Melon

Italian Ice

And Much More!



Door Prizes, Lots Of Food, Fun, Music By Request

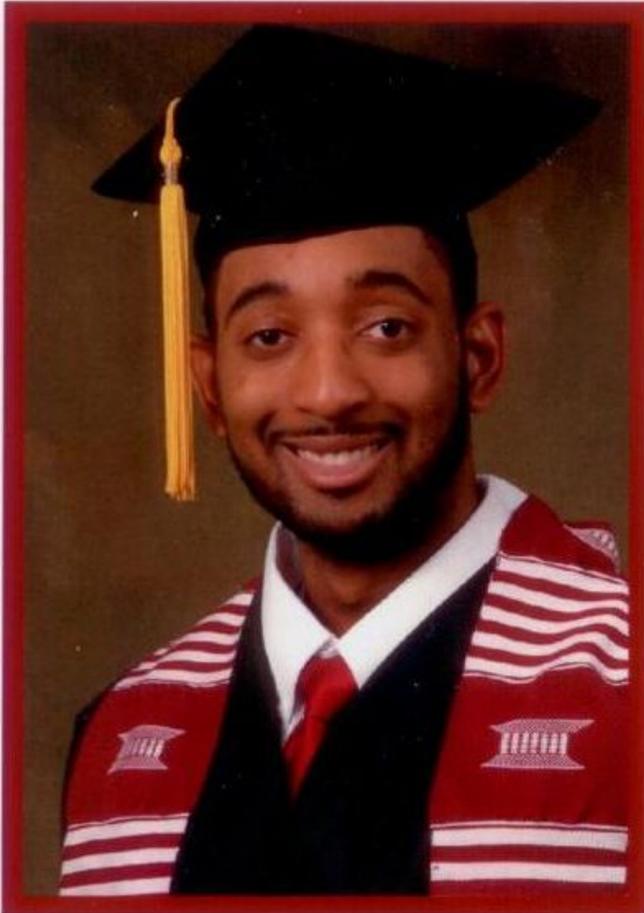
Come and Join Us!

TICKET SALES:

Tony Arno X 6153	Rich Conte X5741	Mike Jacobellis X7861	Nina Rivera X5894
John Benante X2745	Lynanne DiFilippo X7918	Pamela Manning X4072	Paul Sparrow X4689
Tracy Blydenburgh X 4422	Frank Dusek X2022	John Nicolellis X4631	Laura Taddonio X5800
Doreen Cantelmo X8138	Marion Heimerle X4619	Ann Pham X4547	Ray Zaharatos X7205



May 12th our C-AD/CASE graduate student **Stephen Webb**, eRHIC, successfully defended his thesis "Theoretical Considerations for Coherent Electron Cooling" at Stony Brook University and became **Dr. Webb**.



**PATRICK D.
BYNUM**

2011

ALABAMA A&M UNIVERSITY

**B.S. Business Administration
Management Information Systems**

Magna cum laude

**SCHOOL OF BUSINESS
OUTSTANDING SCHOLAR 2011**



George, Mechanical System Support Group and Sarah Mahler, ES&H Directorate are proud to announce the addition of 'twenty tiny toes!' Alice Marie and Kirsten Ann have arrived and all are doing well.



Robert Hulsart, Instrumentation Systems would like to share in the birth of his new baby, Grace Elizabeth, born April 27:



Here are some pictures from Qiong Wu, SRF Group and Yue Hao, eRHIC, of their beautiful daughter Francis:





CONGRATULATIONS TO ALL!!

By [Liz Seubert](#) | May 11,
2011

BNL's Japan Earthquake Relief Fund Reaches \$80,000



The results of BNL's Japan Earthquake Relief Fund effort are in, and the total collected was just over \$80,400. This includes about \$40,000 from the Lab community, \$15,400 from Stony Brook University (SBU), and \$25,000 in matching funds from Brookhaven Science Associates (BSA). The relief fund was initiated by the BNL Asian Pacific American Association (APAA), with special support from Satoshi Ozaki and many others, including the Community Relations Office. The Japan Society will receive \$79,900, the rest having been directed to other relief funds. The Society will deliver 100 percent of the contributions to organizations involved with immediate relief as well as long-term recovery.

A broadcast message from Lab Director Sam Aronson on April 23 expressed heartfelt sympathy for the tragic events following the earthquake and tsunami in Japan and kicked off the fundraising effort, announcing the matching BSA funding, a benefit event organized by the APAA, and a table staffed by volunteers in Berkner Hall lobby to collect donations. The very successful benefit event on April 30 featured presentations by BNL Nuclear Science & Technology Chair Bill Horak on containment and release management strategies for reactors, SBU's Geosciences Professor Teng-fong Wong on earthquakes and tsunamis, and a dramatic drum performance by SBU's "Taiko Tides."

Said Susan Wong of the APAA, "There were so many generous contributors. The APAA may have initiated the effort, but other independent fundraising activities emerged. Groups across the Lab who worked hard to fundraise included last year's United Way captains, Roy Lebel and Joyce Fortunato, and their contacts, as well as the Collider-Accelerator and other departments. Donations even came in from some staff of local restaurants frequented by BNLers. I am sure I speak for all the volunteers in this group effort in thanking

the generous contributors who made our efforts not only easy, but tremendously worthwhile.”

In addition, as the many BNLers who contributed at the daily table in Berkner will recall, each donor there received an origami paper crane. The cranes were made originally by members of BNL’s English For Speakers of Other Languages program, and added to by the volunteers staffing the Berkner table. After the fundraiser, the APAA sent 250 “extras” to the Cranes for Kids program in which OshKosh B’Gosh sends an article of clothing to the children of Japan for each crane received.

As Director Aronson concluded, “I am grateful for the generosity of employees at BNL and SBU, as well as from BSA, which reflects in a practical way the close ties between the Lab and many colleagues and scientific institutions in Japan, and our sympathy for our friends and colleagues impacted by this tragedy.”



From: Losinno, Nancy
Subject: To "Friends" of EAP....first look at the new EAP website

Hello everyone,

I am happy to announce the unveiling of the new EAP website today which integrates information contained on our previous site with a fresh new look. It also has links to the Magellan site (our external EAP vendor effective January 1, 2011), and it can give you a virtual tour of the Magellan site.

You can view everything on the Lab’s site outside of the Lab, with the exception of the videos listed under “Training” which were purchased and need to be protected from duplication by copyright laws.

Please take a look at it and pass the word along to other employees.

www.bnl.gov/eap/

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Fax: 631-344-4814
email: nlosinno@bnl.gov**

"Health is Wealth"

The Food Pantry needs our help.....

If everyone can bring in at least one non-perishable food item, this would help the local food pantries in our area. There are so many families who are in need of food and depend on their local food pantry to have at least one meal a day. With the food supply so low, the volunteer's who help out at our local food pantries can't help those in need. So please.....bring whatever you can to replenish the food supply for those in need.

Your donation of any non-perishable food item can be left in the box marked "Food Drive" located in the 911A Lobby. Your continued support is appreciated.

Thank you.

Good Morning!

Because of the general use of the web, the 4636 "info" hotline is outdated and will now only be used for snow or other BNL emergencies and will no longer be part of the "information tree" with "press" options for information on cafeteria, transportation, recreation, etc. that we had. If you still have some, please continue to hand out the handy info cards that list

the "press" options on one side & the building & phone numbers on the other. We'll have new cards printed soon & will send them out to User Centers & anyone who asks for them.

Please also note that *The Guide to BNL* is web based but is also being reprinted & can be one of your best tools yet for newcomers/users/visitors/postdocs/guests. Let's do our best to welcome new folks and families to BNL and use these helpful links from QOL/BERA/Recreation & from Human Resources:

<http://www.bnl.gov/hr/relocation.asp> AND <http://www.bnl.gov/visitorinfo/>

BNL is a great place to work!

Tickets have been ADDED!

National Hot Rod Assn. (NHRA) SuperNationals at Englishtown, NJ on Saturday June 4, 2011- \$65 pp includes general admission ticket, luxury coach bus, and driver tip.

Leave BNL at 7am, depart races at 5:15pm. http://www.etownraceway.com/schedule/nhra_supernationals_schedule.aspx

New York City! (2 busses @ 54 each)
Do as You please trip to NY City Bryant Park area Saturday June 4, 2011

Depart from Brookhaven Center at 10am, depart NY City at 6pm.

\$20pp. Kids 4-12 are \$5. Children 3 & under on a lap ride free

<http://www.bryantpark.org/>

Atlantic City Showboat Casino \$30 pp Sat. June 11, 2011 Leave Brookhaven Center at 8:45am, leave Showboat at 8pm.

Receive \$30 slot play! 21 and over only with photo ID required. (50 seats only)

FRESH PRODUCE!!

Time to sign up for our BNL CSA - Community Sustained Agriculture Program! Weekly delivery of fresh Organic vegetables by the Green Thumb Organic Farm to BNL members.

For more information see the application <http://www.bnl.gov/bera/recreation/forms.asp>

Costco Membership Drive on Friday June 3 in Berkner Lobby from 11am-2pm

Sam's Club membership Drive on Thursday June 30 in Berkner Lobby from 11am-2pm

DUCKS baseball tickets are available! Semi Pro league on LONG ISLAND & BERA has 6 seats for each game! Go to the BERA Store in 488 Berkner to check availability for home games! <http://www.liducks.com/>

Swimming Lessons for 5-13 year olds at the BNL Pool application is here: <http://www.bnl.gov/bera/recreation/forms.asp>

Family Night at the Swimming Pool Friday's @ \$5 per family + use the gym for exercise and fun!

Hospitality & Play Group information www.bnl.gov/hospitality
Social opportunities

POST DOCS & Students www.bnl.gov/asap Social opportunities

The BERA Board just met and these are some upcoming trips to keep your eye on the BERA website & The BNL Bulletin for:

July:

Downtown NYC Walking Tour

Do as You Please bus trip-drop off by the Statue of Liberty & Ellis Isl.

6 Flags Great Adventure

August:

NY City Skyline Dinner Cruise

September:

Cabela's in PA

Big E

US Tennis Open

Do as You Please bus trip-drop off by the Feast of San Genarro

October:

NASCAR on 10/2

Christine B. Carter, QOL/BERA/Recreation Supervisor



ALUMNI NEWS: AGS/RHIC/C-AD RETIRED CROWD - We'd enjoy hearing from you and what you have been up to. Please send your notes to pmanning@bnl.gov

You can catch up on all of Eric Forsyth's travels by clicking on his

sailing yacht below.



May 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
	Elder Law & Estate Planning Update, Nancy Burner, Elder Law Attorney, 12 Noon, Berkner, Room B					Office of Educational Event "2011 Science Fair", 1:30pm, Berkner

<p>8</p> <p>Mother's Day</p>	<p>9</p>	<p>10</p> <p>Physics Colloquium "Irreversibility and the Second Law of Thermodynamics at the Nanoscale", Christopher Jarzynski, U. of MD, 3:30pm, Bldg. 510 Large Semiar</p>	<p>11</p> <p>Opportunities for Drell-Yan at RHIC, Hosted by Elke Aschenauer, 9am, Bldg. 510 Large Seminar</p>	<p>12</p> <p>Opportunities for Drell-Yan at RHIC, Hosted by Elke Aschenauer, 9am, Bldg. 510 Large Seminar</p> <p>Successful Aging, Amy Shapiro, Noon, Berkner, Room B</p>	<p>13</p> <p>Opportunities for Drell-Yan at RHIC, Hosted by Elke Aschenauer, 9am, Bldg. 510 Large Seminar</p>	<p>14</p>
<p>15</p>	<p>16</p>	<p>17</p> <p>C-AD AP Seminar "Magnet Technology for Novel Particle Accelerators - Challenges and Solutions", Dr. Holger Witte, Oxford U., 4pm, Bldg. 911B LCR</p> <p>BERA Asian Pacific Association (APAA) Event, 5pm, Berkner</p>	<p>18</p> <p>EAP Workshop "Dealing with Workplace Bullying", Nancy Losinno, 12noon, Berkner, Room B</p> <p>469th Brookhaven Lecture by Andrew Vogelmann, ESD, 4pm, Berkner</p>	<p>19</p> <p>BWIS and Technology Colloquia "The Discovery of Nuclear Fission: The Life of Lise Meitner", Andrea Paulonek, LANL, 4pm, Berkner</p>	<p>20</p> <p>C-AD AP Seminar "LHC Optics - Status and Diagnostics with AC Dipoles", Ryoichi Miyamoto, 4pm, Bldg. 911B LCR</p>	<p>21</p>  <p>Armed Forces Day</p>
<p>22</p>	<p>23</p> <p>BSA Distinguished Lecture "From the Structure and Function of the Ribosome to New Antibiotics", Thomas Steitz, Yale U., 4pm, Berkner</p>	<p>24</p> <p>BERA Asian Pacific Association (APAA) Event, 5pm, Berkner</p>	<p>25</p>	<p>26</p>	<p>27</p>	<p>28</p>

29	30  Memorial Day Lab Holiday	31				
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June 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Elder Law & Medicaid Update, Nancy Burner, Elder Law Attorney, 12 Noon, Berkner, Room B	3 Podiatry Screening/ Consultation 9am to 3pm, Clinic, Bldg. 490	4
5	6 Office of Educational Programs Event "2011 DOE Summer Intern Arrival", 9am, Berkner	7	8	9	10 Your Retirement: A Personal Journey. How to Plan What's Best for You in Years to Come, 12 noon, Berkner, Room B	11

<p>12</p>	<p>13</p>	<p>14</p> <p>Flag Day</p> 	<p>15</p> <p>470th Brookhaven Lecture "High Intensity H-LINAC", Deepak Raparia, C-AD, 4pm, Berkner</p>	<p>16</p> <p>BWIS and Technology Colloquia "The World is Blue: How our Fate and the Ocean's Are One", Sylvia Earle, DOER Marine, 4pm, Berkner</p>	<p>17</p>	<p>18</p>
<p>19</p> <p>Father's Day</p>	<p>20</p> <p>2011 RHIC & AGS Annual Users' Meeting, 8:30am Berkner</p>	<p>21</p> <p>Summer Begins</p> <p>2011 RHIC & AGS Annual Users' Meeting, 8:30am Berkner</p> <p>C-AD Annual BBQ 12 Noon Gazebo</p>	<p>22</p> <p>2011 RHIC & AGS Annual Users' Meeting, 8:30am Berkner</p>	<p>23</p> <p>2011 RHIC & AGS Annual Users' Meeting, 8:30am Berkner</p>	<p>24</p> <p>2011 RHIC & AGS Annual Users' Meeting, 8:30am Berkner</p>	<p>25</p>
<p>26</p>	<p>27</p>	<p>28</p> <p>Physics Colloquium "QCD in the Early Universe", Juergen Schaffner-Bielich, U. of Heidelberg, 3:30pm, Bldg. 510 Large Seminar</p>	<p>29</p>	<p>30</p>		



**We Remember
Sept. 11, 2001**

USS New York - A ship forged from the steel of the World Trade Center

Editor: Pamela Manning X4072

