

Particle Post February 2006

Always bear in mind that your own resolution to succeed is more important than any other. ~Abraham Lincoln

Observe good faith and justice toward all nations. Cultivate peace and harmony with all. ~George Washington

To review previous issues

A Note From Our Chairman

We are now well into the turn on of the FY2006 RHIC spin program. This is in great part due to the efforts of Praveen Chaudhari and the private supplemental funding support from James Simons and his partners at Renaissance Technologies Corporation and members of the Board of Directors of Brookhaven Science Associates. Without their largesse, we would not have been able to manage a physics program this year. I would like to thank Dr. Simons et al. You made our year.

The Administration and the DOE have proposed to rectify this year's disastrous funding situation. The president's FY2007 budget for C-AD is intended to support 32 weeks of RHIC operations and EBIS construction. The FY2007 RHIC operating budget, including accelerator R&D, has been increased by 25% (\$115.4M) over this years DOE budget (\$92.4M) and 15% above the FY2005 budget (\$100.5M). EBIS has been fully funded for FY2007, at \$7.4M. In addition the AIP budget was increased by 50%. Capital funding is slated to be ~\$1.5M. We will have to await the deliberations of Congress.

The Machine Advisory Committee met this past month to review our electron cooling R&D effort. They were very impressed. Our goal is to obtain DOE approval to start the pre-construction review process as soon as possible. The first step is to obtain CD0 (Critical Decision 0), an approval of mission need.

Congratulations to everyone at C-AD in continuing our perfect no-lost workday safety record through the past month. Let's continue this excellent record and reach 2 years of perfection. Please be careful when walking on snow and ice covered surfaces during these winter months. This has been the greatest source of injuries. I am however disappointed with a marked increase of moving traffic violations by C-AD personnel. We can reduce the violations to zero and I urge everyone to do so.

On the training front, we seem to be stuck at the 97% level of completed courses. There is no reason that we cannot be at the 100% level. I would like to remind everyone that compliance in training is a necessary condition of employment.



Derek Lowenstein

Administration

At last, we have achieved some level of confidence in the funding status for FY 2006 and, based on that picture, preparations for an experimental run of 20 cryo weeks are in process. Nuclear Physics funding for FY 2006 held at a level more or less equivalent with last year's Presidential Budget request, which called for a decrease of more than \$8M in funding for RHIC Operations. At that level, an experimental run would not have been possible and preparations were underway for an extended shutdown. Additional funding of \$12M, supplied by a private collaborator, the Stony Brook Foundation, was announced in late December and, following that announcement, a limited experimental run was planned.

Although the picture is much rosier than originally thought, we must continue to exercise fiscal restraint. Our current year funding, including that supplied by the Stony Brook Foundation, provides an increase of only \$2.2M over last year's funding, while the projected increase for the cost of machine power in FY 2006 is \$3.2M.

Looking forward, the FY 2008 Budget Submission will be prepared this month. In addition to our initial request for funding in FY 2008, the Budget Submission includes our response to the President's Budget for FY 2007. We await official guidance on the President's Budget, but are encouraged by the first whispers which are positive. Increases in funding for DOE's Office of Science are anticipated and include an increase of \$87M in funding for Nuclear Physics. While we don't yet know what this means specifically for BNL, the wording in the President's budget made clear that the intent was to restore operations at RHIC.

Credit card holders and approving officials take note: the SBMS Credit Card Subject Area has undergone a major revision. All cardholders and approving officials are required to attend training sessions. If you have not already attended one of the training sessions, please plan to attend on February 16th or 23rd, or in March on March 2nd, 9th or 15th. Cardholders who do not attend training will have their cards suspended. Approving officials who do not attend will no longer be authorized to approve activity.

Finally, congratulations are in order for Brian Boyle, who has accepted a position as Head of the Budget & Administration Group at the NSLS. This is a significant promotion and we wish Brian well. With his departure, Darlene Sappo will assume responsibility for the management of the RHIC Operations budget. Plans are underway to hire an additional administrative staff member, and many responsibilities within the group will be shifted. Look for an update to the administrative "Who Does What" memo to be issued following Brian's March departure.



Stephanie LaMontagne-McKeon

Machine Update

As the Particle Post goes into virtual print today, we are back into full operations, with RHIC, the Injectors, BLIP, and preparation for NSRL all keeping MCR and the rest of C-AD very busy.

The injectors' set-up for polarized proton operations started on January 16. The focus of the first 2 weeks of dedicated machine development has been the new set-up at the AGS with 2 snakes and preparation for delivery of beam to RHIC. Polarization of 55% are steadily delivered for bunch intensities of $\sim 10^{11}$ pp/bunch and 50% polarization has been measured for higher bunch intensities of $\sim 1.5 \times 10^{11}$ pp/bunch, already a very good initial beam for physics. Development for polarization will now continue in parallel with RHIC beam activities.

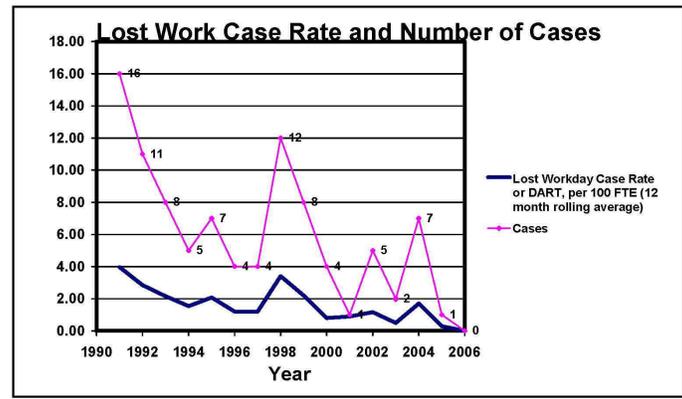
The RHIC cool-down is in full swing with the blue ring already at 4.5K and the yellow ring being cooled down this week. The fast cool-down time in blue (1 day ahead of schedule) and the good rate of progress in yellow make a beginning of around-the-clock beam operations in RHIC early next week very likely. Meanwhile, the days are devoted to power supply testing and other system work, while the nights are – according to a well-established tradition by now - for beam development in the blue ring. With circulating beam already and quickly established, we are looking forward to the intense and challenging weeks of RHIC set-up and luminosity optimization. If all goes well, physics will start in early March.

And with the promise of physics, come plans for accelerator physics experiments: 49 experiments were reviewed last week and are being prepared with the goal of further studying and fostering our machine performance.



Fulvia Pilat

Safety Stats



C-AD Occupational Injury Statistics		
	For Year* 2005	For Year* 2006
First Aid Cases	1	0
Recordable Cases	4	0
Lost Work Cases	1	0

* Calendar Year

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

NEXT EXCHANGE: Have your TLD on its assigned badge board by

Friday, MARCH 3, 2006

Pete Cirigliaro



Departures

Nicholas Luciano, Machine Operations Group left on February 7.

YY Lee officially retired January 31 after over 34 years of dedicated service.



Congratulations

Join Us in Congratulating Siegfried Naase on his Retirement from BNL !!



Dinner to be held at the
Polish Hall in Riverhead

Tuesday, February 28th, 6:00-10 pm

\$30 pp includes Gift
Cash Bar & Buffet Dinner



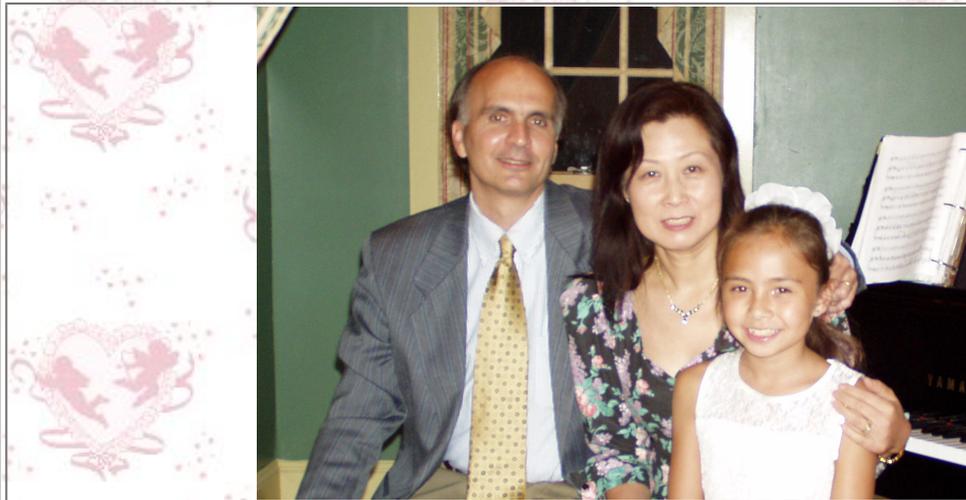
RSVP by February 21st to:
Tom Russo x7350 or
Dan Lehn x4095
Lynanne DiFilippo x7918

Directions: East on LIE to Exit 73 (last exit – CR58), at third traffic light, make right on to Mill Road and quick left on to Pulaski Street (at Mobil gas station, Pulaski Street is the road running behind the Mobil). Polish Hall will be on the right hand side approx. one mile or so across the street from St. Isidore's Church at the corner of Marcy Ave. and Pulaski St. Parking is available on either side of the Hall.

Good Luck!!



Get To Know Your Co-Worker



Ed Beebe, physicist in the Pre-Injector Group has been here since 1994. He works primarily on the development of the Electron Beam Ion Source (EBIS) which is a source of highly charged ions to be used as an injector for the Relativistic heavy Ion Collider (RHIC) and the Nasa Space Radiation Laboratory (NSRL). His wife, Joanne Beebe-Wang, also works as a physicist within C-AD. (They met in graduate school at Cornell University.) They have a daughter, Nicasia, age 10 who is quite active in ballet and has several music pursuits including saxophone, piano, and singing. She is quite good in Math and Science, but emphatically claims she will be an artist, not a scientist! Ed has enjoyed working in the relatively close knit EBIS team during the research development stage of the EBIS project. Now that the project is entering the construction phase, he looks forward to working with several other specialty teams within the department. "The depth of expertise that exists within C-AD and other departments at BNL is truly amazing", states Ed. Before coming to BNL, he graduated from Cornell University with a Masters of Engineering Physics and Ph.D. in Nuclear Science. He then worked at Manne Siegbahn Institute in Stockholm, Sweden on the development of Electron Beam Ion Source in the Crying Laboratory for four years. Ed and his family enjoy traveling, photography and skating.



Greg Marr, has worked in the Main Control Room (MCR) for 10 years now. Greg, who is the RHIC Operations Specialist, works

primarily on tuning the collider, but also supports the MCR crews with NSRL, Booster/AGS operations, etc. He and his wife have one son, Braedon Patrick who is almost a year old. Greg also enjoys scuba diving and skiing.



**Derek and Elaine
are the proud, new
grandparents of
Alexander Shea
Leif, 6.5 pounds,
19.5" long.**



Congratulations from your C-AD family!



Did You Know?

Happy 4703

Year of The Dog: Known for both loyalty and anxiety. The typical person born under the sign of the dog is said to be a good judge of character, someone who rights wrongs, and a speaker who avoids the vague in favor of direct talk. Has a world view that is pessimistic and is prone to periods of worry. A problem setting goals inhibits financial success. Born in: 1946, 1958, 1970, 1920, 1994, 2006.

Valentines Day History

There are varying opinions as to the origin of Valentine's Day. Some experts state that it originated from St. Valentine, a Roman who was martyred for refusing to give up Christianity. He died on February 14, 269 A.D., the same day that had been devoted to love lotteries. Legend also says that St. Valentine left a farewell note for the jailer's daughter, who had become his friend, and signed it "From Your Valentine". Other aspects of the story say that Saint Valentine served as a priest at the temple during the reign of Emperor Claudius II. Claudius then had Valentine jailed for defying him. Other stories suggest that Valentine may have been killed for attempting to help Christians escape harsh Roman prisons where they were often beaten and tortured. In 496 A.D. Pope Gelasius set aside February 14 to honor St. Valentine. Gradually February 14 became the date for exchanging love messages and St. Valentine became the patron saint of lovers. The date was marked by sending poems and simple gifts such as flowers. There was often a social gathering or a ball.

Abraham Lincoln History

Abraham Lincoln was our sixteenth President (1861-1865). Born February 12, 1809, in Hodgenville, Hardin County, Kentucky, the son of a Kentucky frontiersman, Lincoln had to struggle for a living and for learning. He married Mary Todd, and they had four boys, only one of whom lived to maturity. In 1858 Lincoln ran against Stephen A. Douglas for Senator. He lost the election, but in debating with Douglas he gained a national reputation that won him the Republican nomination for President in 1860. On Good Friday, April 14, 1865, Lincoln was assassinated (he died the following morning) at Ford's Theatre in Washington by John Wilkes Booth, an actor, who somehow thought he was helping the South. The opposite was the result, for with Lincoln's death, the possibility of peace with magnanimity died.

George Washington History

George Washington was our first President (1789-1797). Born February 22, 1732 in Westmoreland County, Virginia, to a Virginia planter family, he learned the morals, manners, and body of knowledge requisite for an 18th century Virginia gentleman. Married to a widow, Martha Dandridge Custis, he devoted himself to a busy and happy life. But like his fellow planters, Washington felt himself exploited by British merchants and hampered by British regulations. On April 30, 1789, George Washington, standing on the balcony of Federal Hall on Wall Street in New York, took his oath of office as the first President of the United States. To his disappointment, two parties were developing by the end of his first term. Wearied of politics, feeling old, he retired at the end of his second. Washington enjoyed less than three years of retirement at Mount Vernon, for he died of a throat infection December 14, 1799. For months the Nation mourned him.

Want a Quick Refund?

Are you getting a refund? Do you want it fast? It might be tempting to get a quick refund from a preparer who offers refunds. But remember: These kinds of refunds are really anticipation loans and have high interest rates and fees. For a fast refund without a loan, file electronically (E-file) and have your refund directly deposited into your bank account.

Hiring a Contractor Advice

Homeowners who are considering hiring a contractor to clean up after snowstorms should consider the following:

- Talk to friends and neighbors about contractors they used for similar projects.
- Homeowners can call the Consumer Protection Board at 1-800-697-1220, to check the reliability and history of any potential contractor.
- Get estimates from several different contractors.
- Avoid a firm that wants a large down payment.
- Hire only licensed contractors. Both Suffolk County and Nassau County Office of Consumer Affairs have numbers available. The Consumer Affairs for Suffolk is 631-853-4600; the Nassau office is 516-571-2600.

Housing Cost

According to the Multiple Listing Service of Long Island, the average price of a home in 2004 in Nassau County was \$541,443; in Suffolk County, the average was \$402,373. Those were increases of more than 12 percent over the previous year. Long Island schools, salaries and recreational opportunities rank among the best in the nation.

ID Theft and Internet Fraud Declining?

With all the media emphasis on Internet-related fraud and identity theft, one might think the Internet is a dangerous place for commerce. As it turns out, though the Internet certainly has its risks, incidents of fraud and identity theft from other more traditional means outnumber those online. If recent stats are to be trust, incidents of fraud from Internet-based means well be on the decline. According to a report set to be released early February from Javelin Strategy and Research, in cases where the source of the identify theft was known, only 9 percent were reported to have come from hacking, viruses and phishing. In contrast, a lost or stolen wallet or credit/debit card was the cause of 30 percent of the incidents. The study also found that fraudulent activity is mostly (over 70 percent) conducted offline via phone or mail. That's not to say that there isn't a nefarious angle to online fraud. Average losses results from Internet-related identify theft fraud have ballooned over the last year to \$6,432, up from \$2,897. In the same period losses from ID theft taken from the garbage or mail have declined by 14 percent. Also of note is the fact that phishing in particular was reported to have the highest average length of misuse at 173 days. In comparison, data taken by friends, acquaintances, relatives or in-home employees was used for 134 days and lost or stolen credit cards for only 75 days. "With the appropriate security and consumer education, phishing on existing accounts can be minimized," Rubina Johannes, research analysis at Javelin told internetnews.com. "However, to stop phishing on new accounts is more difficult." Johannes added that, "fraudsters are becoming more and more savvy in garnering seemingly innocuous pieces of personal information, which can then be used to open new, fraudulent accounts in the victims' names." Consumers are far from being helpless, though, when it comes to preventing identity fraud. Johannes notes that 63 percent of potential identify fraud is under the primary control of consumers. "Too often the message in the media and elsewhere has been 'there's nothing you can do, so beware it will happen to you,'" Johannes said. "Javelin has found that to be patently false, and a dangerous message to send to the consumer." In terms of overall fraud, according to recently released 2005 data from the U.S. Federal Trade

Commission (FTC), Internet auctions were the leading complaint category at 12 percent of all complaints, down from 16 percent in 2004. In 2005, fraudsters used Internet solicitations (email and Web) as the initial point of contact in 55 percent of reported cases, down from 57 percent in 2004. Overall, the FTC reported that 46 percent of all reported fraud complaints with losses of over \$335 were Internet-related, down from 52 percent in 2004.

The above article originally appeared on InternetNews.com.

Turn Off Your Cruise Control

When the road is slippery, turn off your cruise control system. Snow, ice, slush or even rain can cause wheel-spin and loss of control. The only way to stop this wheel-spin and maintain control is to immediately reduce power. However, an activated cruise control system will continue to apply power, keeping the wheels spinning. By the time you disengage the cruise control, you may have lost control.



*We wish all of you born in FEBRUARY
a happy and healthy year ahead.*

Birthday people ONLY click on cake



C-AD Service Awards January

20 years

Andreas Warkentein

Congratulations



Fun Time

Hangman!

Topic: Presidents of The United States

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#)
[N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Free JavaScripts provided
by [The JavaScript Source](#)



Winter/Spring 2006

~BERA PRESENTS~



Saturday, March 25, 2006 at 5pm
Live & In Person Bill Cosby!

At the Tilles Center, C.W. Post Campus, Brookville, LI
\$45 PP includes great seats & luxury motor coach.
Leaving BNL at 3:30pm, returning after the show.



Sunday, March 26, 2006

Mozart's Magnificent retelling of the amorous exploits of literature's most notorious philanderer continues to shock and delight audiences. 1:30pm p erformance. \$80 per ticket includes luxury coach bus and orchestra seating at NYC Opera Company at Lincoln Center. The bus will depart from Brookhaven Center at 9:15am and leave NYC at 5:00pm.



Saturday April 1, 2006
Cabela's Pennsylvania

Cabela's Hamburg, Pennsylvania Retail Store - 250,000 sq. ft. showroom is an educational and entertainment attractions, featuring a décor of museum-quality animal displays, huge aquariums and trophy animals interacting in realistic re-creations of their natural habitats.

\$20 PP for Luxury Mini Coach leaving BNL at 7am, leaving PA at 5pm.

SAVE the Date!!!
Tentatively scheduled for
Saturday, April 8, 2006
More Info to follow.....



"Top of the Rock"
Saturday, April 22, 2006

After being closed for 20 years, the observatory at Rockefeller Center has reopened as Top of the Rock! Spend the day in NY City on Saturday April 22, 2006. Leaving BNL at 9am, arriving in time for our special tickets to the new Observation Deck, leaving NY at 4pm. \$20 PP includes luxury coach and special tickets to **"Top of the Rock"**.

- Sign up now!!! for Pilates, Royal Caribbean Cruise and Life Guard Certification
- Employee DISCOUNTS - check it out <http://www.bnl.gov/bera/recreation/discounts.asp>
- Tax Workshop for Foreign Nationals
- Weight Room - has Safety Equipment/Orientations
- BERA Board has 2 vacancies. Contact a board member if you are interested in participating in the March elections.
More information at: www.bnl.gov/BERA

Brooklyn Botanical Garden
25th Annual Sakura Matsuri
Saturday, April 29, 2006



\$10 PP - 2 busses will be provided for this event- leaving BNL at 8am, leaving the garden at 4pm

BROOKHAVEN NATIONAL LABORATORY



STRETCHING CLINIC

Presented by The Health Promotion Program &
QOL/BERA/RECREATION at
Brookhaven National Laboratory

WHEN: Wednesday 2-22-06 ~ 12 Noon- 1pm

WHERE: BNL Gym

WHY: Smart Exercising & Injury Prevention
(And we're not getting any younger!)

All participants in BERA Clubs & Sports as well as individual walkers, joggers, and athletes are encouraged to attend!
Presented by Jennifer Gatz, Exercise Physiologist/Health Promotion Program Consultant

Please RSVP To C. Carter ext. 2873
So that we may have an accurate count for refreshments & prizes

ALSO AVAILABLE! Twice monthly FREE Gym orientation, safety, and instruction sessions given by J. Giambalvo, Exercise Physiologist, for all members of the BERA Weight Room. Call ext. 2873 for information, or go to www.bnl.gov/bera

BROOKHAVEN NATIONAL LABORATORY
2006 ADULT SWIMMING PROGRAM

Wednesday, March 1st
to
Wednesday, April 19th

ADULT SWIMMING CLASSES AT BNL POOL

- Planned Program:** Each Adult will be scheduled for one swimming lesson every week for a total of eight lessons. American Red Cross certificates will be awarded to those adults who qualify.
- Day/Time:** Wednesdays, 5:30-6:30 p.m.
- Cost per Adult:** \$80.00 registration fee
- Participants:** This class is open to all employees, those with visitors/guest appointments, Users, retirees, and their immediate family members who are at least 17 years of age.

NOTE: THERE WILL BE NO MAKE-UP CLASSES.

Please mail the registration application below with a check for \$80.00 made payable to BERA, to the Recreation Office, Bldg. 179B, no later than 2/24/06.

If you have any questions, please call Sue Dwyer at 3147 or 3496 (Monday-Thursday from 4:30-8:30pm) or Christine Carter at ext. 5090.

BROOKHAVEN NATIONAL LABORATORY
ADULT SWIMMING LESSONS - 2006
REGISTRATION APPLICATION

Date: _____

Name: _____
(Please Print)

Please Circle One:

Employee Visitor Guest Facility User

BNL Life/Guest Number: _____ Building Number: _____

BNL Extension: _____ Home Phone Number: _____

Emergency Contact and Phone Number: _____



"A Big Fat Gorgeous Hit"
New York Times

Winner of EIGHT 2003 Tony Awards®
including Best Musical

Date: Saturday March 11, 2006

Time: Leave BNL 9:00am

Where: **NEIL SIMON THEATER**
250 West 52nd Street, New York, NY 10036

Showtime: 2:00pm

Cost: \$60pp includes luxury coach bus and great rear mezzanine tickets.

Departure after the show ~ 4:30 pm

Tickets can be purchased at the BERA Store, Monday thru Friday between 9:00am and 3:00pm

Audience: Hairspray is fine for elementary through college age kids. Children under 4 years of age will not be admitted into the Neil Simon Theater.

Run time: 2 hours 40 mins. (15-minute intermission)

Emergency Contact
and Phone Number:

Mail completed form with \$80.00 check made payable to BERA, to Recreation Office, Bldg. 179B

will not be admitted into the Neil Simon Theater.
Run Time: 2 hours 40 mins. (15-minute intermission)

QOL/BERA/Recreation office is sponsoring a

"Tax Assistance for Visiting Foreign Nationals" workshop

Form 1040NR Department of the Treasury Internal Revenue Service	U.S. Nonresident Alien Income Tax Return for the year January 1 - December 31, 2005	OMB No.1545-0074
		2005

Date: Monday, March 13, 2006
 Time: 12:00 noon
 Place: Berkner, Room B

The presentation will be given by

Mark Israel

Fiscal Officer
and

Deborah Johnson

Director of Internal Audit & Oversight

To register, please contact
the Recreation Office at ext. 2873

For a copy of the 1040NR Form, go to: <http://www.irs.gov/pub/irs-pdf/f1040nr.pdf>

Additional information can be found at: <http://www.irs.gov/formspubs/lists/0..id=97817.00.html>

BERA is pleased to announce...



The Circus is coming !!!

Saturday, April 8, 2006

3 pm - Madison Square Garden
 \$32 per person includes luxury
 bus from BNL to NYC and access
 to the Pre-Show starting

at 2 pm

Bus will leave BNL at 9:30 am

and depart city ~4:45 pm



Tickets on sale now

at theBERA office



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



February 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Camera Club Meeting, Noon, Berkner, Rm C	2	3 AP Seminar "Crystal Collimation at the Tevatron and the LHC" N. Mokhov, FNAL, 4pm, Bldg. 911B LCR	4
5	6	7	8	9 HR/OM Health Promotion Lecture "Diabetes: the Basics You Need to Know" A. Shapiro, 12 Noon, Berkner, Rm B	10 All Employee Meeting 10am Berkner AP Seminar "Beam Dynamics in High Current, High Brightness ERL at BNL" D. Kayran, 4pm, Bldg. 911B LCR	11

12	13	14 Happy Valentine's Day "Fiona's Atlantic Voyage Video", E. Forsyth Noon, Berkner Hall	15 412 th Brookhaven Lecture "Coded Aperture Thermal Neutron Imaging Project" P. Vanier, NNS, 4pm, Berkner Auditorium	16 BNL Blood Drive, 9:30-3pm, Brookhaven Center	17 AP Seminar "Critical Parameters for the Deuteron EDM Storage Ring" Y. Orlov, Cornell U., 4pm, Bldg. 911A Snyder Seminar	18
19	20  Lab Holiday	21	22	23	24	25
26	27	28				



March 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13 "Tax Assistance for Visiting Foreign Nationals Workshop", M. Israel, Noon, Berkner, Rm B	14	15 413 th Brookhaven Lecture "The Quest for High Luminosity in Hadron Colliders" W. Fischer, C-AD, 4pm, Berkner Auditorium	16	17 	18

19	20 Spring Begins	21	22	23	24	25
26	27	28	29	30	31	



We Remember
Sept. 11, 2001

Editor: Pamela Manning x4072