

Particle Post March 2008

"If a man aspires towards a righteous life, his first act of abstinence is from injury to animals." ~Albert Einstein

Previous issues

A Note From Our Chairman



The RHIC run is nearing the end of the 2008 running cycle. By March 14 the machine will be warm and the shutdown maintenance work will begin. I want to remind everyone that all our work **MUST** be done in a safe manner. If anyone has a question about the safety or procedure of what they are doing, they should **STOP WORK** and get it reviewed before proceeding.

Run 8 had a very successful deuteron-gold and a polarized proton run, albeit the latter was only 6 weeks long. The plan for Run 9 is 30 weeks of both gold-gold and polarized proton collisions. It remains to be seen what budget we will actually get in a tumultuous election year.

NSRL has just started operations and will continue until the beginning of July. BLIP will continue on until it runs out of funds. The Tandem will be running for paying customers.

In the last Particle Post, I wrote about the need to not misuse computer equipment. I would like to now inform you about the need to physically secure your areas against theft. Although we have fortunately not had a reported theft, we have however noticed that there was a recent attempt to break into building 926. I urge everyone to be vigilant and report anything suspicious to Safeguards and Security as well as my office.

I would like to congratulate Dr. Viorel Badea for winning the Brookhaven Engineering Award. A well deserved accolade.

Administration



The financial plan for FY 2008 is, at last, in place. Our plans are ambitious. The acceleration of the effort on stochastic cooling R&D, along with a six week polarized proton run, will stretch our resources. Thus, as RHIC Run 8 ends, we begin a longer than average shutdown with lower than customary funding. Success will require careful planning and, so, you can insert here the customary admonitions to make every effort to control costs in the upcoming months.

Although we are unlikely to experience savings on the order of those seen in last year's budget for machine power, there may be opportunity over the next few months to augment our materials budgets. Revenue from the sale of scrap continues to trickle in and Whatman recently concluded a run in excess of 200 hours at the Tandem van de Graaff. The BLIP facility, as well, will run for an extended period in this fiscal year. Although the rates charged for use of both the Tandem and BLIP are set to recover only the actual cost incurred, the use of either facility defrays the cost for manpower that would otherwise be charged to RHIC and, in that manner, adds to the funding available for material purchases.

The collaboration with NASA at NSRL continues to provide support for a minimum of 14 fte's annually. Funding of \$1.8M was received in February to support Run 08A, as well as the development of large beam capability. User demand is increasing and NASA has considered plans to increase run time above the 950 hours reflected in the SOW.

Work on EBIS continues as we adjust the baseline cost and schedule to reflect the revised funding profile. The final funding installment of \$2.7M is planned for FY 2009.

In preparation for the completion of EBIS, the first draft of a business plan for the Tandem was prepared. Although the plan will be refined over time, it appears that we may have a viable working model for stand-alone operations.

In summary, despite uncertain and constrained funding, we continue to make progress in the enhancement and operation of our programs.

Machine Update

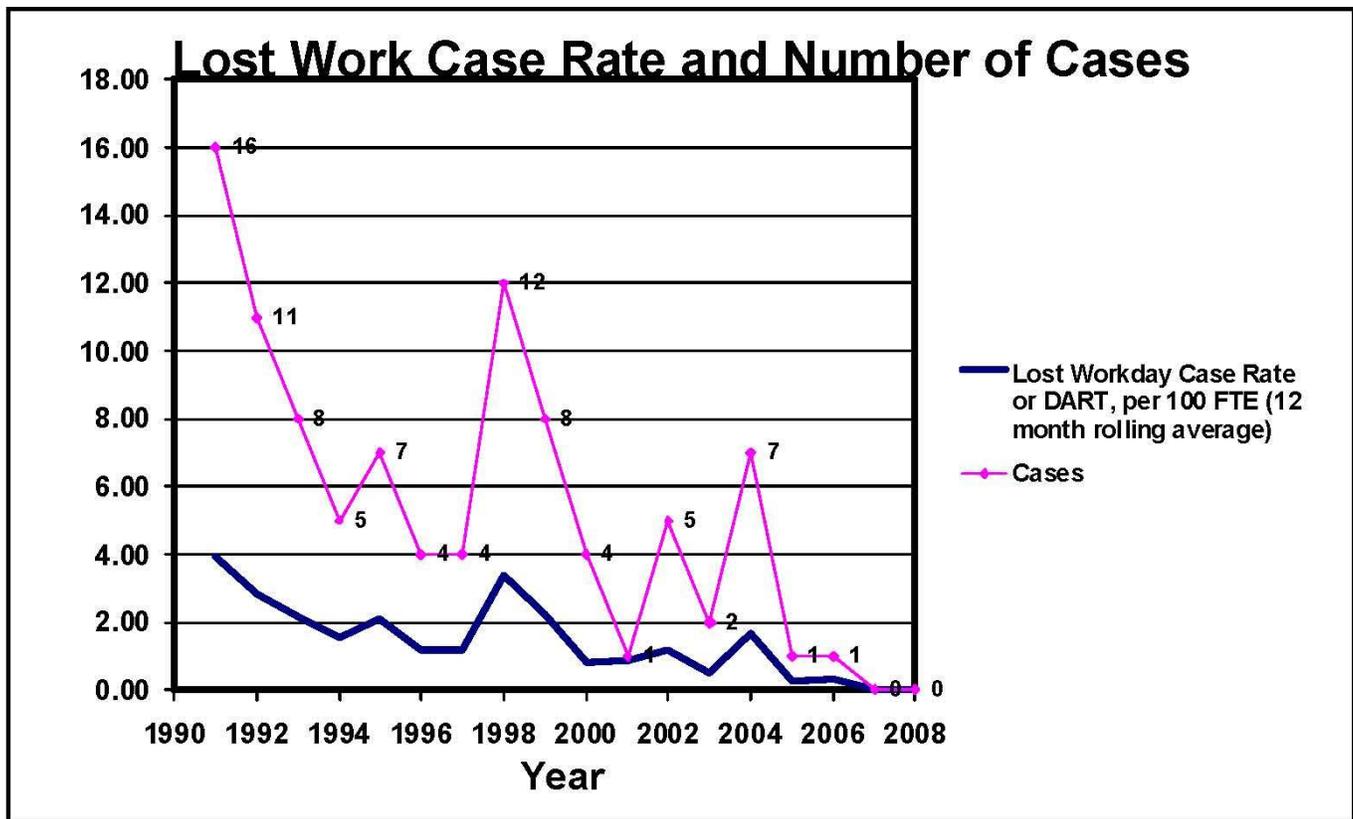


The Run-8 polarized proton came to an end this morning, March 10 at 8am. The overall performance is summarized in the following plot:

The red and blue bars summarize the integrated luminosity delivered weekly to Star and Phenix, in line with the more optimistic projection for this short run. The orange bars plot the weekly time spent at store in collision, a direct measure of machine availability. Confirming the positive trend in the deuteron-gold portion of the run, the weekly availability has been close or surpassed the ultimate goal of 100 hours during the last 3 weeks (extrapolation is assumed for the last – incomplete – week. The other dimension of polarized proton operations, is, of course polarization. No improvement – in the injectors or in RHIC - has been achieved in polarization over the last time we ran PP, in 2006. Largely this is a consequence of the short length of the run, traditionally leaps in

performance are associated with long runs, when the injector have long development time under the RHIC physics stores: one more reason to advocate for long running times. The next two days will see the last effort for RHIC Operations in Run-8, the set up of collision at the low energy of 9.2 GeV. Demonstration of collisions is an important milestone to establish the capability of the machine to support RHIC physics running at this energy, an unique tool to explore and pinpoint the critical point in QCD phase transitions. The long NSRL run started successfully last week On March 3 and slated to continue into the summer. The BLIP program is also running, and will continues to do so well into the spring. With the RHIC run almost behind us, the focus now is shifting to the preparation of the 2008 RHIC Retreat, March 31-April 1 in Montauk with closeout in Snyder April 2, and the planning of the upcoming and presumably very long machine shutdown.

Safety Stats



C-AD Occupational Injury Statistics

For Year* 2007 For Year* 2008

First Aid Cases	4	0
Recordable Cases	1	0
Lost Work Cases	0	0

Lost Work Cases

0

0

* Calendar Year

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

EXCHANGE DATE: FRIDAY, APRIL 4, 2008

next will be May 2, 2008

Pete Cirnigliario



Arrival

Michiko Minty joined the Department on March 3, working with Thomas Roser in the Accelerator Division.

WELCOME!



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 **March**
a happy and healthy year ahead.
Birthday people ONLY click on cake*



C-AD Service Awards February

30 years	Leif Ahrens
20 years	Frank Scheifele
	Daniel Wilson
10 years	Mike Sivertz
	Robert Karl

Congratulations!



Get to Know Your CoWorker

Brian Brueggert, Main Control Room (MCR), has been working at C-AD for 3 years now. Brian is an operator on the Booster/AGS/RHIC and Polarimeter Operations Liaison. In his down time, Brian enjoys hiking, camping and traveling.



Fun Time

Dice Poker

Scoring:

3 of a kind: 2 points

4 of a kind: 4 points

5 of a kind: 10 points

Full House (3 + 2 of a kind): 3 points

Low Straight (1,2,3,4,5): 5 points

High Straight (2,3,4,5,6): 6 points

Click **ROLL** to start

Score:

Free JavaScripts provided
by [The JavaScript Source](http://www.javascriptsource.com/)



Did You Know

Rama Calaga received the 2007 APS/DPB Doctoral Research Award. The citation is: "For his dissertation about characterization and correction of RHIC's transverse optics and beam dynamics, and about design of an ampere class SRF gun and cavity."

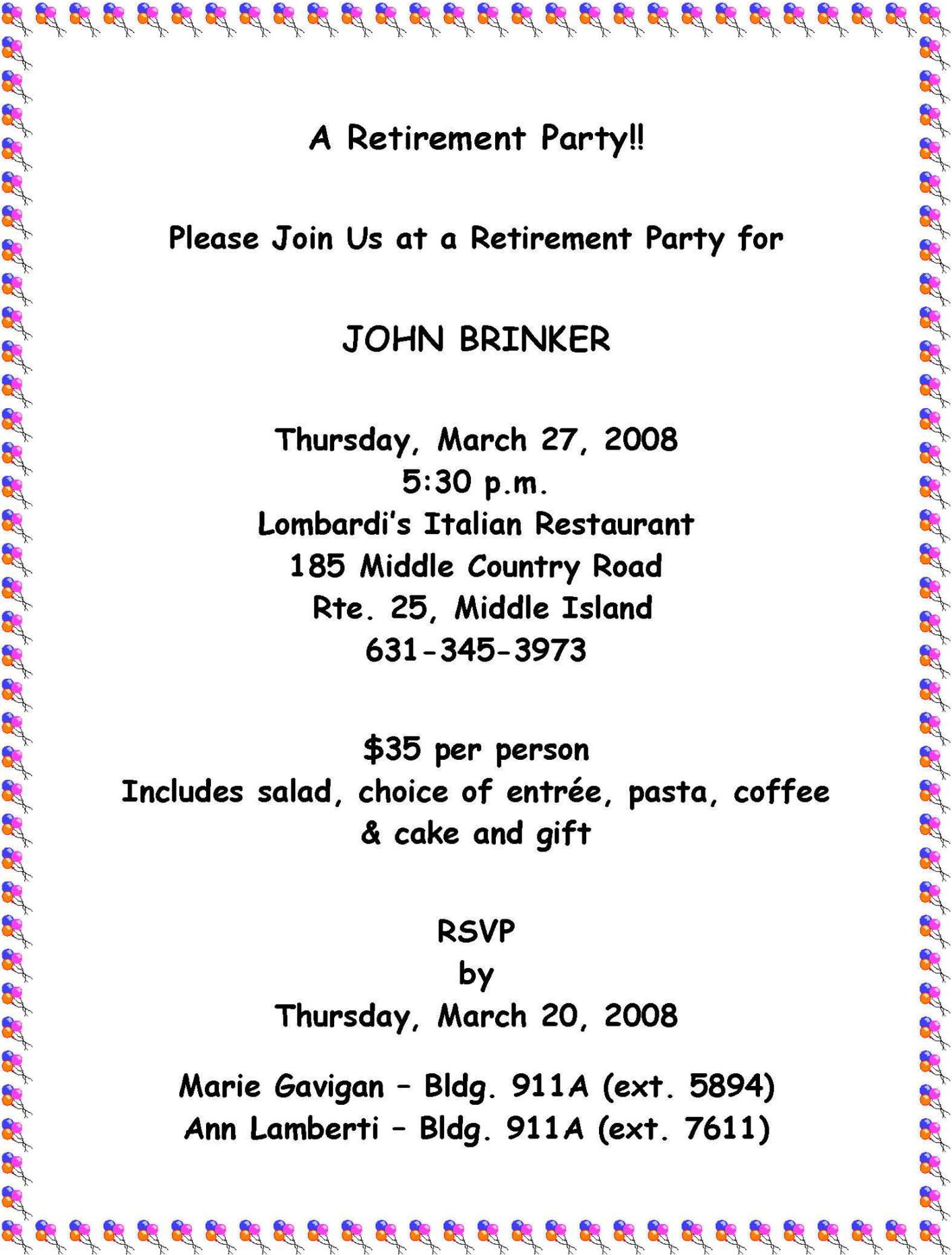
CONGRATULATIONS!



Thomas Russo: Electrical Engineer and Volunteer Emergency Medical Technician Tuesday, February 26, 2008

Thomas Russo, an electrical engineer who is the leader of the Instrumentation and Beam Components Group in the Collider-Accelerator Department, works to keep the Relativistic Heavy Ion Collider running efficiently during workdays. But during many evenings and weekends he can be found in the back of an ambulance, administering medical care that may save the lives of seriously injured or sick people. Since 1999, Russo has been a volunteer with Manorville Community Ambulance, which provides ambulance services for the entire 64-square-mile community adjacent to Brookhaven Lab. "I used to be a soccer league coach, when my two children were interested in that sport. But when they left soccer behind for other interests, I also decided to do something new," Russo said. "I wanted to help my community, so I joined the ambulance corps in Manorville." As part of his commitment to ambulance services, Russo took a six-month course that met two nights a week to be certified in basic life support. After he passed a New York State test that certified him as a first-responder emergency medical technician (EMT), he took an 11-month, six-hour per week course to become an EMT who specializes in critical care. After he completed that course and took a more advanced test, he was able to expand his medical care-giving to include ECG monitoring and interpretation, medication administration, defibrillation and other advanced life support care. "As part of my training, I spent a lot of time at hospitals, observing emergency surgeries, learning how to perform phlebotomies, and even witnessing autopsies," Russo said. Currently, Russo is a member of the board of directors of Manorville Community Ambulance, which employs paid staff as well as volunteers. He is also the ambulance corps' training officer and youth squad advisor. As the youth squad advisor, he trains youngsters, ages 12-18, to become certified in life support techniques. As part of the program, the trainees participate in mock drills, and they can participate in an annual New York State contest in which they administer medical care to a mock patient in a drill and are judged on their performance. The Manorville team that Russo trained won the New York State championship in 2004, and placed third in 2006. From 10 to 15 teams participate in the contest each year. Russo particularly likes working as the youth squad advisor. "I enjoy the opportunity to teach these kids who are interested in working for the community," he said. "Some of them may even go on to consider a medical career." In 2004, Russo was chief of the ambulance corps, and in that year, he responded to 300 ambulance calls. Currently he does not keep up that pace, but all volunteers are required to work at least four hours per week. As many as half of the annual ambulance calls are related to injuries sustained from accidents, such as car accidents or trips and falls, which, Russo said, makes him very aware of the importance of safety, both at the Lab and at home. Other calls are due to medical conditions such as heart attack and stroke. Sometimes patients are reluctant to be taken to the hospital, but Russo said it is best to err on the side of caution. "If you see someone who you believe has a serious medical emergency, don't hesitate to call 911 or if at the Lab, 911 or 2222. It could mean the difference between life and death."





A Retirement Party!!

Please Join Us at a Retirement Party for

JOHN BRINKER

Thursday, March 27, 2008

5:30 p.m.

Lombardi's Italian Restaurant

185 Middle Country Road

Rte. 25, Middle Island

631-345-3973

\$35 per person

**Includes salad, choice of entrée, pasta, coffee
& cake and gift**

RSVP

by

Thursday, March 20, 2008

Marie Gavigan - Bldg. 911A (ext. 5894)

Ann Lamberti - Bldg. 911A (ext. 7611)

A Tax Assistance Workshop for Visiting Foreign Nationals will be held on Monday March 17, 2008 at 12 noon in Room B at Berkner. The program is coordinated by QOL/BERA/Recreation, and presented by Mark Israel, Director, Internal Audit & Oversight Office. Please call Ext. 2873 to register for this free workshop. Refreshments will be served! <http://www.bnl.gov/bera/recreation/calendar.asp>

Additional (FREE!) programs to benefit our foreign guests & employees include:

*English For Speakers of Other Languages (ESOL) offers classes for all levels & practice sessions for presentations. <http://www.bnl.gov/esol/>

*Hospitality Committee- Tuesday welcome coffees at 10:30am, trips/events & more. <http://www.bnl.gov/hospitality/>

*Play Group for parents & children living on site & off site. Socialize while the children play on Wednesdays at 10am.

*Recreation Hall: Tuesday-Thursday for socializing, piano, ping pong, TV, book exchange & to meet your neighbors. 5:30-9:30pm.

~TIME FOR SOFTBALL & SOCCER at BNL!!! Students/Postdocs/spouses & partners are welcome!

Be in touch with Rich for Softball @ Ext. 5284 & Joe for Soccer @ Ext. 4616.

~ ATALNTIC CITY ON APRIL 5! Casino & package to be announced. \$25pp.

~Fishing with Capt. Bob in Mattituck! \$60PP includes all.

Coming soon: Brooklyn Botanic Garden Cherry Blossom Festival 5/3/08.

<http://www.bnl.gov/bera/recreation/events.asp>



Compassion And Selfless Service - Pathway To Peace

Talk given by: Dayamrita Chaitanya

(one of Amma's Senior Disciples)

(one of Amma's Senior Disciples)

Thursday, May 8th, 4:00 - 5:15 PM, Berkner Auditorium, BNL

Open to the Public, Free, All are welcome!

Sponsored by BERA's IAA Yoga Club



Dayamrita Chaitanya (on the right) presenting \$1 million to Bush-Clinton Katrina Relief Fund

Who is Amma? Amma (Mata Amritanandamayi), is widely regarded as one of the world's foremost humanitarian spiritual leaders. Her life is dedicated to alleviating suffering through personal outreach, and a network of charitable volunteer organizations. Demonstrating by example, Amma encourages compassion and service. **Amma says that compassion for the poor is our duty. "Real meditation happens when we become truly selfless."**

In a time when headlines are dominated by stories of greed and war, it is inspiring to know of contemporary spiritual leaders like the Dalai Lama, Amma, and the late Mother Teresa, who remind us of, what is truly beautiful and meaningful about the human spirit.

Some Ongoing Volunteer Projects of Amma:

- Free Adult Vocational Training for the poor, and Science & Research Development Centers
- Charitable Hospitals, Hospices for terminally ill, Medical Camps, Free Medicines and Food
- Free Homes for Tsunami & Earthquake victims, the Homeless, and Children's Orphanages

"I believe that Amma stands here in front of us, God's love in a human body." -Dr. Jane Goodall, primatologist, while presenting Amma the Gandhi-King award at the United Nations in Geneva, 2002

"Her message is simple: Only through love can humanity be united." -Dallas Morning News

"Known globally for her charitable work and her emphasis on selfless service." -Los Angeles Times

Featured recently on CBS, Amma was recognized as one of the twelve most influential spiritual leaders in the world.

BROOKHAVEN
NATIONAL LABORATORY

Ila Campbell: 631-344-2206 ila@bnl.gov

www.geocities.com/aumamma/Info.html



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.



March 2008



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1

2	3	<p>Eric Forsyth's Sailing Trip to Antarctica, 12noon, Berkner</p> <p>Physics Colloquium "Progress and challenges in the physics of nuclei", D. Dean, ORNL, 3:30pm, Bldg. 510</p>	5	6	<p>Particle Physics Seminar "Hadron phenomenology from AdS/QCD for experimentalists", S.J. Brodsky, SLAC, 3:00pm, Bldg. 510 Small Seminar</p>	8
<p>Daylight Saving Time Ends</p>	10	<p>Health Promotion Lecture "Paying for Long-Term Care: Understanding your Options", C. Russell, Cornell U., 12noon, Berkner Rm B</p> <p>Physics Colloquium "The observation of the GZK suppression in ultra-high energy cosmic rays", P. Sokolsky, U. of UT, 3:30pm, Bldg. 510, Large Sem.</p>	<p>BSA Distinguished Lecture "Climate Change: Prospects for Nature", T. Lovejoy, Heinz Center, 4pm, Berkner</p>	<p>Summer Camp Expo, Berkner 11am-1:30pm</p> <p>Particle Physics Seminar "Initial State Radiation Physics at BaBar", D. Muller, SLAC, 3:00pm, Bldg. 510 Small Seminar</p>	<p>C-AD AP Seminar "Phases of QCD Matter", A. Mocsy, RIKEN, 4:00pm, Bldg. 911B LCR</p>	15

16	17	18	19	20	21	22
	Saint Patrick's	Physics Colloquium "Developments in charm quark mesons: chaos, confusion and craziness", T. Barnes, 3:30pm, Bldg. 510, Large Seminar Rm	434th Brookhaven Lecture "E. O'Brien, PO, 4pm, Berkner	First Day of Spring Particle Physics Seminar "New Physics searches at BaBar", S. Banerjee, U. of Victoria, 3:00pm, Bldg. 510 Small Seminar		Holi Festival features Music, Song & Dance of India, Berkner, 2pm
23	24	25	26	27	28	29
Easter		Physics Colloquium "What the inflation might tell us about RHIC", J. Berges, TU Darmstadt, 3:30pm, Bldg. 510 Large Seminar		Particle Physics Seminar "A Quantitative Measure of Experimental Scientific Merit", B. Knuteson, MIT, 3:00pm, Bldg. 510 Small Seminar	C-AD AP Seminar "Laser to RF conversion techniques for the laser-based synchronization system at FLASH", B. Lorbeer, Hamburg, 9:00am, Bldg. 911B LCR Concert Featuring The Kane Daily Band, Berkner, 7:30pm	BNL Career Open House, 10am-3pm Berkner Hall
30	31					

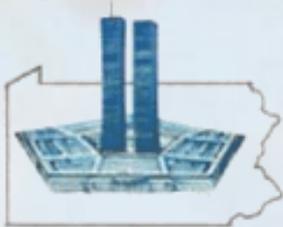


April 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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		<p>1</p> <p>April Fool's Day</p> <p>Physics Colloquium "More neutrinos + more space dimensions = more² new physics possibilities", T. Weiler, Vanderbilt U., 3:30pm, Bldg. 510 Large Sem</p>	<p>2</p>	<p>3</p> <p>Particle Physics Seminar "Whatever happened to Solar Neutrinos", R. Galea, Columbia U., 3:00pm, Bldg. 510 Small Seminar</p>	<p>4</p>	<p>5</p>
<p>6</p>	<p>7</p>	<p>8</p>	<p>9</p>	<p>10</p> <p>Particle Physics Seminar "The Telescope Array Experiment", H. Sagawa, U. of Tokyo, 3:00pm, Bldg. 510 Small Seminar</p>	<p>11</p>	<p>12</p>
<p>13</p>	<p>14</p>	<p>15</p> <p>Physics Colloquium "Fractional kinetics: origin and applications", G. Zaslavsky, Courant Inst, 3:30pm, Bldg. 510 Large Sem</p>	<p>16</p> <p>435th Brookhaven Lecture, N. Camillone, CO, 4pm, Berkner</p>	<p>17</p>	<p>18</p>	<p>19</p>

<p>20</p> <p>Passover</p>	<p>21</p> <p>436th Brookhaven Lecture & E&WMS Earth Day Talk, "A grand solar plan: how solar power can cut greenhouse gases & end US dependence on foreign oil", V. Fthenakis, ES&T, 12 noon, Berkner</p>	<p>22</p> <p>Earth Day</p>	<p>23</p> <p>Administrative Assistants Day</p>	<p>24</p> <p>Particle Physics Seminar "First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in", J. P. Fernandez, CIEMAT, 3:00pm, Bldg. 510 Small Seminar</p>	<p>25</p> <p>Arbor Day</p>	<p>26</p>
<p>27</p>	<p>28</p>	<p>29</p>	<p>30</p>			



We Remember
Sept. 11, 2001

Editor: Pamela Manning x4072