

# Particle Post April 2008

*"Our lives are not determined by what happens to us but by how we react to what happens, not by what life brings to us, but by the attitude we bring to life. A positive attitude causes a chain reaction of positive thoughts, events, and outcomes. It is a catalyst, a spark that creates extraordinary results." ~Anonymous*

Previous issues

## A Note From Our Chairman



I would like to congratulate Ilan Ben Zvi for being awarded the 2008 IEEE/NPSS Merit Award. The citation reads: "for outstanding contributions to the fields of high energy physics and free electron lasers."

Congratulations to Paul Sparrow for receiving an Honorable Mention at the Sitewide Safety Steward Employee Recognition Program for Safety Awareness Award Ceremony.

I would like to remind everyone, as we become more involved in the RHIC maintenance shutdown work, that safety should be everyone's first priority. We have an extraordinary amount of work to be accomplished, but work planning and safe execution is paramount. We continue to have a superb safety record and let us keep it that way.

The RHIC physics program was successfully completed with the last two days dedicated to low energy gold running. The first data was collected by both experiments at 9.2 GeV center of mass energy (4.6 GeV/n per beam) and the first commissioning of stored beam at 2.5 GeV/n was completed. Todd Satogata and the entire crew are to be congratulated for this excellent result.

In the meanwhile, both NSRL and BLIP continue to take beam. The Tandem continues to supply NSRL and external users.

## Administration



March data is IN and it is clear that the word is OUT. New web requisition activity and travel for RHIC operations is down significantly. Overtime, as well, has moderated and should approach \$0 in the coming months. Thank you all for your cooperation. Keep up the good work!

Having exhausted the many ways in which to say “funding in FY 2008 is constrained”, I move on to administrative news.

The Administrative Group recently bid farewell to Darlene Sappo who left the Laboratory on March 28th after nearly 30 years, more than 20 of which were here at C-AD. Although we wish her well in her retirement, the group has lost a valued friend and colleague. Sue Pankowski has replaced Darlene as head of the Budget & Accounting Group within my organization. Sue is relatively new to the Laboratory but is very capable and has worked closely with Darlene over the past few months. We are in good hands.

On the procedural front, I offer the following update and tutorial on signature authority and the responsibility assumed by those individuals in whom the authority to approve expenditures has been vested.

Group I and Group II signature authorization protocols, which have been in place for decades, were recently replaced by a 3-tier signature system. Those individuals granted Tier III authority may authorize expenditures up to \$25,000 and those with Tier II authority may authorize expenditures up to \$250,000. Within C-AD, Tier III authority is vested in the group leader or, in the case of LDRD and Work for Others projects, the principle investigator. C-AD’s Chairman, Derek Lowenstein, as well as C-AD’s Division Heads and Deputy Division Heads hold Tier II authority. Tier 1 authority is held by the Associate Laboratory Director for Nuclear and Particle Physics, Steven Vigdor who must approve all C-AD purchase requests, work orders, RFQ’s, etc. with an estimated value equal to or exceeding \$250,000.

If you have been granted signature authority at any level, please be reminded that your signature indicates: (1) that funding is available; (2) that the cost is allowable; and (3) that the purchase supports the program.

Look for next month’s administrative update which will provide details on upcoming inventory processes. Both the Laboratory’s biannual inventory of capital equipment and C-AD’s annual inventory of Special Process Spares will begin shortly. In addition, a new procedure that requires each employee to provide an annual certification of the sensitive items assigned to them will be implemented in this fiscal year.

## Machine Update



With the end of Run-8, the focus of RHIC and injectors operations is now the organization and optimization of the long shutdown (For up-to-date shutdown schedule, progress and information see the Maintenance WEB page <http://www.cadops.bnl.gov/AGS/Accel/Maintenance/> ).

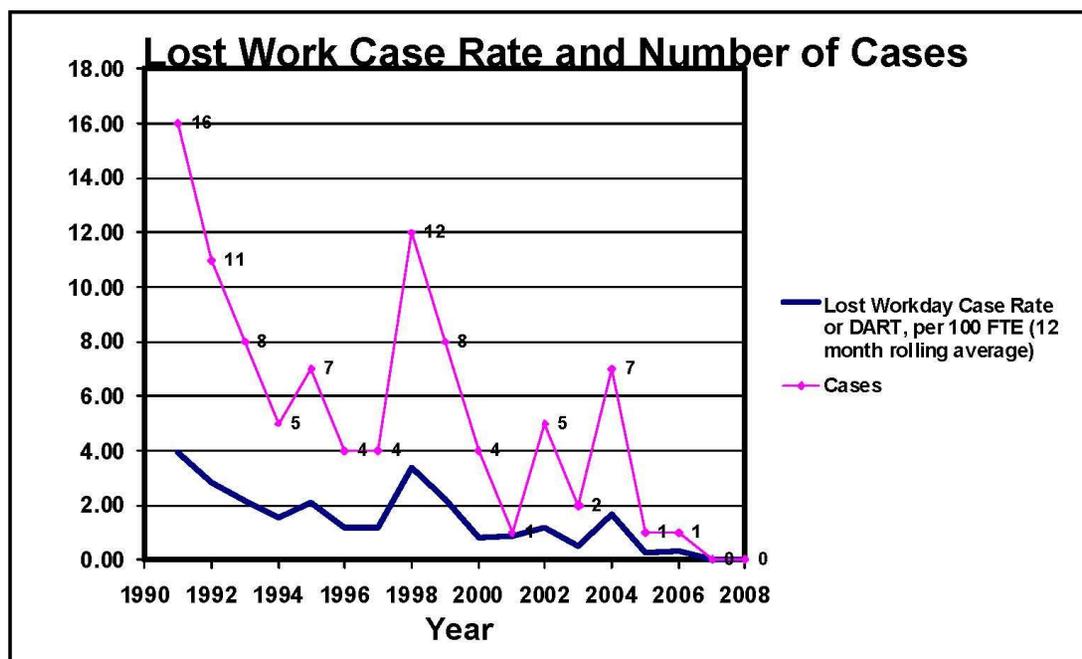
NSRL and BLIP operations are also continuing though the spring. The RHIC Retreat, the main forum to address past performance and prepare the next run, traditionally follows the end of RHIC operations by a couple of weeks, while run memories are still fresh and early enough to be relevant to the shutdown work planning. The 2008 RHIC Retreat took place this week in Montauk with closeout in Snyder. For information see the Retreat web page <http://www.c-ad.bnl.gov/RHIC/retreat2008/> and click on “overall agenda” for the full list of presentations.

After the first morning of overviews and input from the experiments, we devoted the following session to issues relevant to the preparation for the next RHIC run, ions and polarized protons. Operations and systems issues and plans were the focus of another session: it was very satisfactory

to notice the significant increase in machine uptime and system reliability from last year, in result of a concerted effort to revert a worrisome trend in machine availability. That should give us collective incentive to further improvements. As frank and open discussion is one – if not the main – goal of the Retreat we experimented for the first time with a full session devoted to organized discussion. A Panel of experts prepared and organized the discussion with input from the entire RHIC community. The outcome has been a very positive one, and it seems appropriate to repeat this experience at the future Retreats. Finally, the Retreat was summarized back at the Laboratory in a closeout session.

As the organizer I would like to once again thank all the participants for their excellent contributions, the Department for the support, and Anna Petway and Frank Naase for their help in the organization.

## Safety Stats



### C-AD Occupational Injury Statistics

For Year\* 2007

For Year\* 2008

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

\* Calendar Year

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

**EXCHANGE DATE: FRIDAY, MAY 2, 2008**

**next will be June 6, 2008**

***Pete Cirnigliaro***



## **Arrival**

**Sumanta Kumar Nayak has joined the Department effective March 31, working with Mike Mapes in the Vacuum Group.**

**WELCOME!**

## **Departures**

**Brian Brueggert, Machine Operations Group, has terminated effective April 3, 2008.**

**Darlene Sappo, Administrative Group, has retired effective March 28, 2008.**

## **Transfer**

**Wing Louie, Electrical Systems Group, will be transferring to Light Source II effective May 1, 2008.**

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



## **C-AD Service Awards** March

<b>35 years</b>	<b>Ripp Bowman</b>
<b>25 years</b>	<b>Robert Eich</b>
	<b>Louis Cannizzo</b>

<b>20 years</b>	<b>Gary McIntyre</b> <b>Bert Haug</b> <b>Paul Sampson</b> <b>Wahfun Ng</b> <b>David Pate</b>
<b>10 years</b>	<b>Terrence Higgins</b>

## Congratulations!



### Get to Know Your CoWorker

**Brian Karpin**, Collider Electrical Power Supplies Group, has worked at BNL for over 19.5 years. Brian performs troubleshooting, repairing, upgrading on corrector magnet power supplies, QPA's, 3U chassis, PCBs and various other collider electrical power supply equipment. Before joining C-AD, Brian was in the Magnet Division working on projects like SSC and RHIC with 5 years in the magnet test facility control room. Brian has many hobbies he enjoys like electronics, computers, sculpture, ink drawing, photography, books (he is an ex-used book dealer), woodwork, metalwork, music and antiques. Brian also has two cats. The challenging aspects of the job stimulate Brian. He enjoys a yearly visit to California to visit his younger brother. When Brian is not spending time with his girlfriend Jean, or on his hobbies he is slowly remodeling his Port Jefferson Station home.

**Brian at the bench fixing 50amp corrector power supplies.**



**Brian & girlfriend Jean**





**Brian's BERA Art Exhibit creation 11/07**



**Brian's creature sculpture**



**Brian playing the drums**

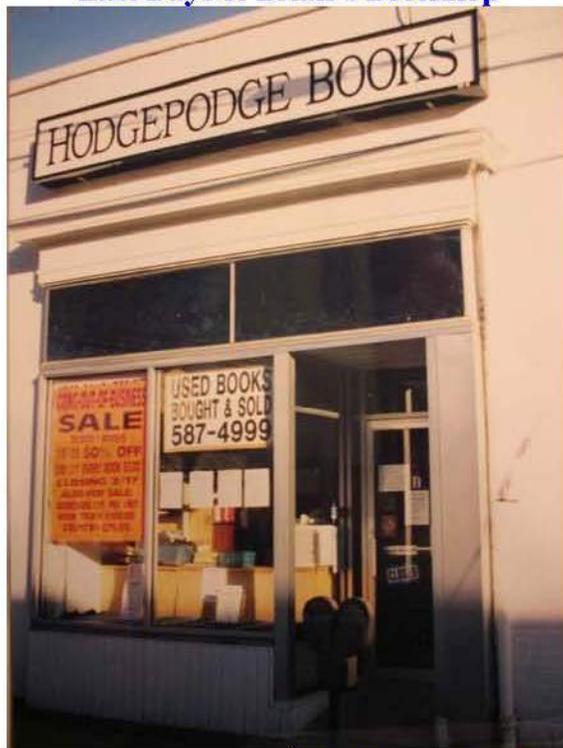


**Brian's housemates and dependents (Mooshe & Zackary)**





**Last Days of Brian's Bookshop**



**California Rainbow (2003 trip)**



**Ft. Mason, San Francisco 2003**





**CA brother Tim and wife Shari**



**Brother Mike and Jean at car show**



## Fun Time

**Are you the weakest link?**

**Below are 4 questions. Answer them instantly. You can't take your time.**

**Answer them immediately. No pencil or paper! OK? Let's find out just how smart and clever you really are. Ready? ... GO!!!**

**FIRST QUESTION: You are participating in a race. You overtake the second person. What position are you in?**

**ANSWER:** If you answer that you are first, then you are absolutely wrong!

If you overtake the second person and you take his place, you are second! Try not to screw up in the next question.

To answer the second question, don't take as much time as you took for the first question. (You know you took too much time.)

**SECOND QUESTION:** If you overtake the last person, then you are ...?

**ANSWER:** If you answered that you are second to last, then you are wrong again. Tell me, how can you overtake the LAST person?!

**THIRD QUESTION:** Very tricky math! Note: This must be done in your head only. DO NOT use paper and pencil or a calculator. Try it.

Take 1000 and add 40 to it.

Now add another 1000.

Now add 30.

Add another 1000.

Now add 20.

Now add another 1000.

Now add 10.

What is the total?

**ANSWER:** Did you get 5000? The correct answer is actually 4100.

Don't believe it? Check with your calculator! Today is definitely not your day. Maybe you will get the last question right?

**LAST QUESTION:** Mary's father has five daughters: Nana, Nene, Nini, Nono.

What is the name of the fifth daughter?

**ANSWER:** Nunu? Nana? Nene? NONO! Of course not. The fifth daughter's name is Mary. Read the question again.

**You are the weakest link!!**

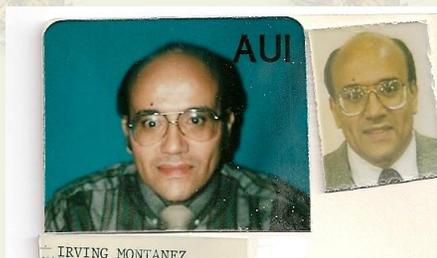


## Did You Know



We regret to inform you that Joseph Sheehan, Jr. died on March 26. Joe joined our department in December 1964 and had transferred to Light Source in 1982. His obituary as it appeared in Newsday on 3/28/08:

Joseph F. Sheehan Jr. SHEEHAN - Joseph F. Jr., of Blue Point, LI, on March 26, 2008. Beloved husband of the late Ruth Sheehan. Devoted father of Mary and Daniel Toomey, Carol Sheehan, Joseph F. Sheehan, III., and Catherine Sheehan. Cherished grandfather of Daniel, Steven and David. Dear brother of Andrew and Judith Sheehan, Madelyn Ginty and the late Maureen Sheehan, Joseph was born in New Haven, CT, was a proud veteran of the United States Army and was employed for 35 years at Brookhaven National Lab. Reposing at The Fredrick J. Chapey & Sons West Islip Funeral Home, 1225 Montauk Hwy., (1/4 Mile West of the Robert Moses Cswy.). Celebration of the Liturgy of Christian Burial Monday 10:00AM at St. Patrick's Church, Bay Shore, LI. Interment to follow at Calverton National Cemetery, Calverton, LI. Visiting Sunday 2-4:30 and 7-9:30PM.



Irving Montanez also passed away on April 1. Irving started at the Laboratory in 1969 and joined our Department in June 1980 and retired January 1995. His obituary as it appeared in Newsday on 4/3/08:

Irving Montanez MONTANEZ - Irving, age 70, of Coram, on April 1, 2008. Beloved husband of Irma, devoted father of Shelley (Kenneth) Savoca. Cherished grandfather of Kenneth Jr., Alexandra, and Matthew. Also survived by his loving sister, Myrna Chiesa, niece Carla Wolters and nephew Carlos Chiesa. Reposing at Marinello Funeral Home, Inc., 493 Middle Country Road, Coram. Funeral Mass, Saturday, 9:30AM, St. Frances Cabrini RC Church. Interment Holy Sepulchre Cemetery. Visitation Friday only 2-5 and 7-9PM.



## Annual Office Supply Swap, 4/22 & 4/23

As part of the Lab's Earth Week celebrations taking place the week of April 21, the annual Office Supply Swap will be held on Tuesday and Wednesday, April 22 and 23, 11:30am to 1:30pm in Berkner Hall Lobby. This is an opportunity to spring clean your offices, supply closets, and conference rooms of items no longer used, but still in good condition. Root them out and bring them to Berkner on April 22 and 23 to be "recycled." Even if you have nothing to bring, you should stop by and take away any item you want to use in your office - free! All kinds of things may be donated ... paper, notebooks, pads, pens, pencils, folders, binders, small office equipment such as calculators, staplers, 3-hole punches, computer-related accessories, etc., to be "recycled" for use within the Laboratory. Bar-coded items may not be swapped. Please spread the word! To learn more, contact Francine Donnelly, Ext. 3381.

## 2008 IEEE/NPSS Merit Award

**Ilan Ben-Zvi** has been awarded the 2008 IEEE Nuclear and Plasma Sciences Society (NPSS) Merit Award. The Merit Award recognizes outstanding technical contributions to the fields of Nuclear and Plasma Sciences. Ilan's citation reads: "For outstanding contributions to the fields of high energy physics and free electron lasers."

**CONGRATULATIONS!**



# BROOKHAVEN NATIONAL LABORATORY

## FOOD at BNL:

<http://www.bnl.gov/staffservices/foodservices/default.asp>

### Cafeteria



On-site food service is provided by Naylorson, located in Berkner Hall, Bldg. 488. BNL's 400-seat cafeteria is open Monday through Friday, 7:30 a.m. to 2:30 p.m., and Saturday and Sunday, 7:30 a.m. to 2 p.m., for breakfast and lunch. The

Cafeteria is closed Thanksgiving, Christmas and New Year's Day.

- **NEW Frozen Food Entrees** are available for purchase (i.e. Healthy Choice or Lean Cuisine)
- All items served in the cafeteria are available as **take out (to go)**
- The menu changes daily and always features hot and cold entrees, salads, sandwiches, vegetarian entrees, and grill items.

### Brookhaven Center Restaurant



On-site evening food service is served at Brookhaven Center, Bldg. 30, Ext. 2204. Located in the Brookhaven Center, Bldg. 30, the Center Restaurant is open 5 p.m. to 10 p.m. Monday through Friday for after-work supper and get-togethers.

During the work week, a full menu of dinners is offered from 5 until 8 p.m. The kitchen remains open from 8 until 9 p.m., offering a more limited menu. In addition to the

regular menu, there are nightly dinner specials. **Take-out orders** are always welcome. Major credit cards are accepted.

- Happy hour on Fridays features drink specials and a **FREE** hot and cold buffet beginning at 4:30 p.m.

The Center Restaurant is closed on Saturday, Sunday and all Lab holidays (including the evening before holidays). For more information, call the Center Restaurant, Ext. 2204, Monday through Friday, 5 to 9 p.m.





## STARBUCKS Café at Research Support Building, Bldg. 400

Open Monday-Friday from 7am-7pm serving all your Starbuck's favorites, including espresso, lattes, biscotti, baked goods, coffee and tea.

### Vending machines



Vending food: For information call Ext. 3545. A complete list of all vending machine locations can be found on the BNL home page under FOOD SERVICES.

- Sandwiches, snacks, hot & cold beverages are available in the Research Support Building 400 24 hours a day, 7 days a week.
- The Snack Stop in Building 179B (by the Post Office) is open 24/7, has a coffee/hot chocolate machine, microwave oven and seating.
- Soda vending machines are located in each dormitory, Laundry building 363, and Science Education building 438.
- Ice machines are located in each dormitory and the Lobby of the Guest House.

**BROOKHAVEN**  
NATIONAL LABORATORY

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samaronson@bnl.gov

Managed by Brookhaven Science Associates  
for the U.S. Department of Energy

Memo

**DATE:** *April 2, 2008*

**TO:** *All Employees & Guests*

**FROM:** *Sam Aronson*

**SUBJECT:** *Take Our Children to Work Day – April 24, 2008*

I am pleased to announce that Brookhaven will be participating in “Take Our Children to Work Day” on **Thursday, April 24.**

The girls and boys will spend the morning with parents in their work places and following lunch; an afternoon of talks and tours will further enhance their BNL experience. If you have a child between the ages of 10-15 and would like to take advantage of this exciting opportunity, you may register on-line or complete the registration form below. **Please keep in mind that minors may not visit a Laboratory facility that exposes them to radiation, chemicals, or other potentially hazardous situations.** If a visit to your workplace might involve exposure to these conditions, please consult with your ESH Coordinator or Facility Representative to determine if such a visit is allowable. If it is not, you should attempt to arrange for a “host parent” to cover the morning portion of the day. We are hopeful that several children from the Little Flower School in Wading River will be able to join us for this day. If you are interested in being a host parent for one of these children, please indicate this when you register on-line or on the form below.

**TO REGISTER ON-LINE, GO TO THE HR HOMEPAGE & CLICK ON CHILDREN’S DAY REGISTRATION FORM IN THE RIGHT COLUMN. FOLLOW THE PROMPTS & SUBMIT YOUR FORM.** For those of you who do not have access to a computer, please fill in the registration form below and return it **Liz Gilbert, Bldg. 400B prior to April 17.**

**PLEASE NOTIFY YOUR SUPERVISOR OF YOUR INTENT TO BRING YOUR CHILD(REN) TO WORK WITH YOU.**

**TAKE OUR CHILDREN TO WORK DAY REGISTRATION FORM**

_____	_____		
Child’s Name	Age		
_____	_____	_____	_____
Parent’s Name	Extension	Bldg.	Dept/Div.
_____	_____	_____	_____
*Host’s Name (if applicable)	Extension	Bldg.	Dept/Div.
Special Needs: _____			

\_\_\_\_\_ I would like to participate as a chaperone during the afternoon hours. (Supervisory approval required)

\_\_\_\_\_ I would like to participate as a host parent for a Little Flower School child.

**Compassion And Selfless Service - Pathway To Peace**  
**Talk given by: Dayamrita Chaitanya**  
**(one of Amma's Senior Disciples)**

**Thursday, May 8<sup>th</sup>, 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 "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. For more info please visit 'amma.org'.

**Dayamrita Chaitanya:** is one of Amma's senior disciples for past 24 years. He travels around the world to help keep the spirit of selfless-service and compassion that Amma inspires. Apart from being the director of Amma's headquarters center in San Ramon, California, he also oversees the administration of all the centers in the United States, Canada and Latin America. He specialized in Physics for his undergraduate degree and holds a masters degree in Film Technology from the Film and Television Institute of India.



Ila Campbell: 631-344-2206 [ila@bnl.gov](mailto:ila@bnl.gov)

[www.geocities.com/aumamma/Info.html](http://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](mailto:pmanning@bnl.gov)**



**John Gabusi, (Engineer with our department) with his wife Erma and daughters Carolyn and Susan (former Engineering student) send their regards.**

**You can catch up on all of Eric Forsyth's travels by clicking on his sailing yacht below.**



**April 2008**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		<p>1</p> <p>April Fool's Day</p> <p>Physics Colloquium "More neutrinos + more space dimensions = more<sup>2</sup> 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>BES Distinguished Lecture "Superfluidity in an Electron Liquid", N. Ashcroft, Cornell U., 3:00pm, Bldg. 555 Hamilton Seminar</p>	<p>9</p> <p>BSA Noon Recital "Violinist - Solomiya Ivakhiv, 12 noon Berkner</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>C-AD AP Seminar "Studies of the Ion Induced Damage in the High Intensity Polarized Electron Gun", Dr. E. Tsentalovich, MIT Bates, 4pm, Bldg. 911B LCR</p>	<p>12</p> <p>2008 Middle School Science Bowl, 9 am to ~5pm, Berkner</p>
<p>13</p>	<p>14</p> <p>BREA Seminar "Crude Awakening", E. Forsyth, BNL Retiree, 12 noon Berkner</p>	<p>15</p> <p>Physics Colloquium "Fractional kinetics: origin and applications", G. Zaslavsky, Courant Inst, 3:30pm, Bldg. 510 Large Seminar</p>	<p>16</p> <p>435th Brookhaven Lecture, "Crossing Interfacial Frontiers: Surface Chemical Dynamics at the Temporal and Spatial Limit", N. Camillone, CO, 4pm, Berkner</p>	<p>17</p> <p>Particle Physics Seminar "Search for New Physics in Heavy Quark Decays at LHCb", S. Blusk, Syracuse U., 3:00pm, Bldg. 510 Small Seminar</p>	<p>18</p>	<p>19</p>

20 Passover	21 436th Brookhaven Lecture & E&WMS Earth Day Talk, "Solar Grand Plan", V. Fthenakis, ES&T, 12 noon, Berkner	22 Earth Day	23 Administrative Assistants Day Stony Brook Opera to Perform Two One-Act Operas, Noon, Berkner	24 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	25 Arbor Day	26
27	28	29 Nuclear Physics Seminar "Origin of hadron mass and phases of QCD at finite density", L. Glozman, U. of Graz, Austria, 11am, Bldg. 510 Small Seminar	30			



# May 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 Particle Physics Seminar G. Tzanakos, U. of Athens, Greece 3:00pm, Bldg. 510 Small Seminar	2 Brookhaven Symposium "Neutrino Helicity at 50: A Celebration of the Goldhaber-Grodzins-Sunyar Experiment" 9am Bldg. 510 Large Seminar	3

4	5	6 C-AD Seminar "NSRL Results and Future Plans for Space Research", F. Cucinotta, NASA, 4pm, Bldg. 911A Snyder Seminar Rm	7 Special OMC Seminar "Healthy Travel for Business or Pleasure", The OMC Clinical Staff, OMC, 12noon Bldg. 490 LCR	8 Particle Physics Seminar "Recent Results from the MIPP Experiment", H. Meyer, FNAL, 3pm, Bldg. 510 Small Seminar  Talk on "Compassion and Selfless Service: Pathway to Peace" by Dayamrita Chaitanya, 4pm, Berkner	9	10
11 Mother's Day	12 Trueman Fest "Celebrating 46 Years of Scientific Work and Service: T. Laurence Trueman", 9:30am, Bldg. 510 and Berkner	13 Physics Colloquium "Latest Results from the CLEO-c Experiments", I.P. Shipsey, Purdue U., 3:30pm, Bldg. 510 Large Seminar	14	15	16	17  Armed Forces Day
18	19	20	21	22	23	24
25	26  Holiday	27	28 437th Brookhaven Lecture, W. Mangel, Biology Department, 4pm, Berkner	29 Particle Physics Seminar "Searches in Tripleton Channels at CDF", S. Dube, Rutgers U., 3:00pm, Bldg. 510 Small Seminar	30	31

30	31					
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**We Remember**  
*Sept. 11, 2001*

**Editor: [Pamela Manning x4072](#)**