

# Particle Post December 2009

*"Blessed is  
the season  
which engages  
the whole world  
in a conspiracy  
of love."*

*W. Mabie*

*~ Hamilton*

Previous issues

## A Note From Our Chairman



Congratulations to Mei Bai and Anatoli Zelenski upon receiving tenure appointment.

I would like to wish everyone a happy holiday season and a happy, healthy and prosperous New Year.

Establishment of a new Accelerator R&D Division at the Collider-Accelerator Department:

To highlight and consolidate the significant accelerator R&D efforts occurring at C-AD a new Accelerator R&D Division will be formed at the Collider-Accelerator Department, effective December 1, 2009. The Department's Associate Chair for Accelerator R&D, Ilan Ben-Zvi, will head the new division. Vladimir Litvinenko will be deputy head.

The Accelerator R&D Division will comprise of the following groups that are presently part of the Accelerator Division: the Superconducting Accelerator and Electron Cooling group, the eRHIC R&D group and the LARP group. The leadership and the membership of these groups will remain unchanged. The activities of the groups that are moved to the new Division will also not change: in addition to the R&D efforts presently pursued the members of these groups will continue to be expected to participate in and support RHIC operations.

The Accelerator R&D Division will also have a connection to the Stony Brook / Brookhaven Center for Accelerator Science and Education and will be well placed to follow up on R&D funding opportunities at DOE, NSF, DOD and beyond. New funding opportunities are anticipated following the "Accelerators for America" symposium, which established the value of accelerator science to society and science.

An organizational chart showing the new structure of the Collider-Accelerator Department will be distributed separately.

## Administration



As the rush of activity focused on preparations for RHIC Run 10 winds down, it is time to focus our attention to the care of the facility. An orderly work environment, or the lack thereof, has a direct impact on the safety of our workforce as well as our ability to provide appropriate safeguards for government



purchased resources. A property management walk-through of the facility planned for January provides added incentive to prioritize clean-up efforts. In addition to general housekeeping issues, you are strongly urged to address outstanding property control issues. Obsolete and/or surplus materials should be discarded or properly stored and secured. Equipment no longer needed should be transferred or excessed. Sensitive item receipts (SIRA's), loan agreements and property passes should also be brought up-to-date at this time.

Please note that the transfer or excess of bar coded assets must be coordinated through the Department's Property Representative, Ann Lamberti.

On the budget front, official confirmation of the FY 2010 budget guidance provided by the Program Office in November is anticipated in the December financial plan. Current year funding of \$121.1M, along with prior year funds of \$11.7M, will provide an operating budget of \$132.8M. Twenty-five to twenty-seven weeks of cryo operations are planned.

Although austerity measures are not required, active management of those cost elements over which we are able to exercise control remains important. Supervisory control of overtime will be especially critical in FY 2010. To date, overtime expense has averaged \$12K per day and thus judicious use could provide savings in the hundreds of thousands of dollars. The cumulative effect of less substantial savings initiatives should not be overlooked. Two that come quickly to mind are lost dosimeters and union grievances which, together, cost C-AD ~\$25K in FY 2009.

In summary, a workforce focused on their collective and individual responsibility to minimize waste and safeguard resources will help to ensure our safety and demonstrate our commitment to the mission of the Laboratory.

## Operations Update



As the Particle Post goes to 'print' we are bringing RHIC back to life. Just last night we had the first circulating beam in the blue ring after a record setting cool-down for both rings. Gold set-up in the injectors has started successfully in mid November, with the concurrent commissioning of improvements of the AGS internal dump. For a few days we will work on systems during the day – primarily power supplies and vacuum – and with beam at night, priorities being the commissioning of the new low level RF system together with injection set-up. As soon as yellow is ready, likely towards the end of this week, we will start ramp development with beam around the clock. Developing a ramp with tune and coupling feedback, with a new low level RF and possibly orbit feedback at the same time will be an interesting challenge. The expectation is that we will be in physics production if all goes well just before Christmas.

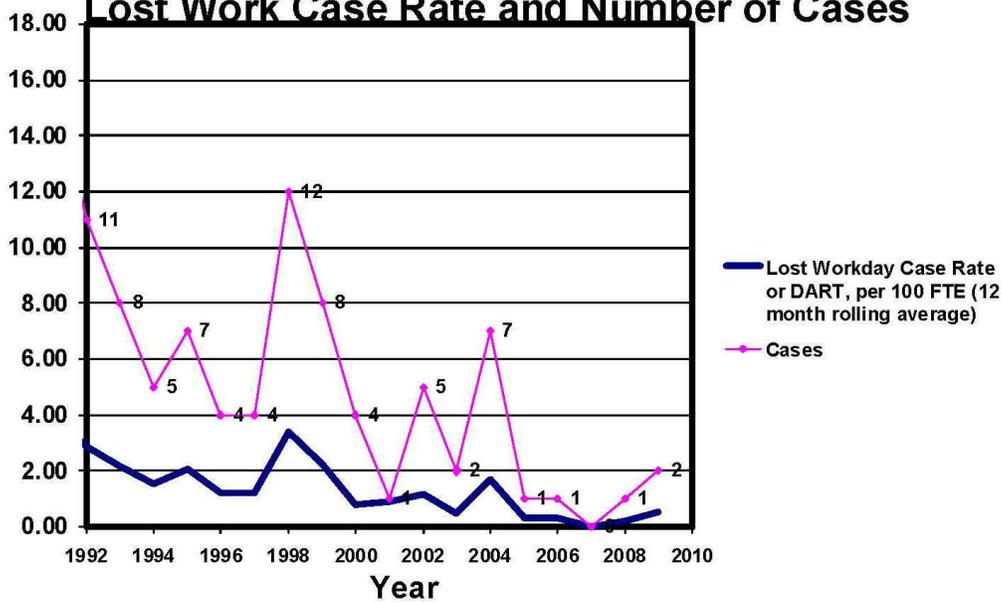
Updates about the specifics of the RHIC Run can be found on the Run-10 WEB page <http://www.cadops.bnl.gov/AP/RHIC2010/> .

We held the 2009 APEX Workshop on November 12-13 to prepare the beam experiment program for Run-10, agenda and presentations can be found at

<http://www.c-ad.bnl.gov/APEX/APEXWorkshop2009/index.htm>

## Safety Stats

## Lost Work Case Rate and Number of Cases



## C-AD Occupational Injury Statistics

For Year\* 2008      For Year\* 2009

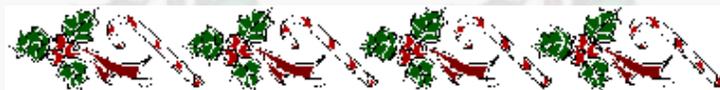
First Aid Cases	6	5
Recordable Cases	3	2
Lost Work Cases	1	2

\* Calendar Year

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

**EXCHANGE DATE: FRIDAY, JANUARY 8, 2010**

*Pete Cirnigliario*



## Arrivals

**Mathias Brandin**, Guest Scientist from Sweden joined the department on November 19 to work with Ilan Ben-Zvi in the Superconducting Accelerator and Electron Cooling Group.

**Daniel Carroll** joined the department on November 30. He is working with Rich Conte/Jonathan Reich in the Access Controls Group.

**Leonard De La Cruz** joined the department on November 10. He is working with Omar Gould in the Preinjector Systems Group.

**Xiaofeng Gu** joined the department on November 20. He is working with **Wolfram Fischer** in the Accelerator Physics Group.

## WELCOME!

### Transfer

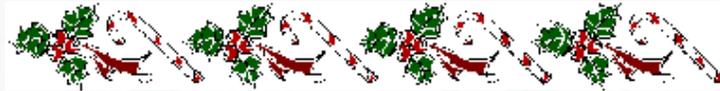
**Victor Usack**, Vacuum Group transferred to Light Source II on December 1.

### Departures

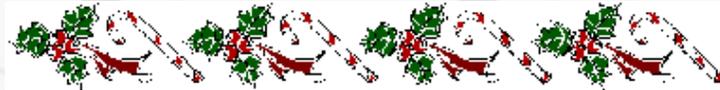
**Robert Dabrowski**, Preinjector Systems Group will be terminating December 4. It is expected that he will begin a Guest Appointment beginning December 5 for 1-2 months.

**Dean McDonald**, Access Controls Group retired on November 30 after nearly 33 years of dedicated service.

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



## C-AD Service Awards November

**35 years**

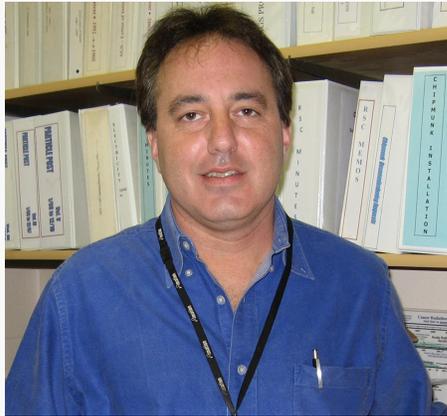
**Richard Spitz**

30 years	Roger Davis Sandy Asselta
20 years	Steven Savatteri
10 years	Lee Hammons

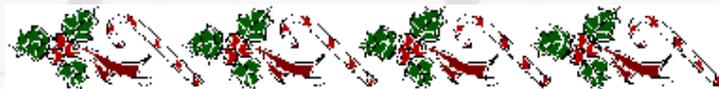
## Congratulations!



## Get To Know Your Co-Worker



**Jonathan Reich, Access Controls Safety Systems Group, has been the Group Leader for ACG for 5 years. Jonathan has worked at BNL for over 22 years. Jonathan currently works on ERL PASS, NSRL PASS, and RHIC PASS. Iris recognition systems, PASS upgrade and keeping C-AD personnel safe from hazards in and around Accelerators. Before starting his current position, Jonathan worked in the Main Control Room Operations for 12 years. He was the MCR Operations Coordinator for 6 years working on RHIC PASS commissioning. Jonathan was an MCR operator for 5 years. Injectors comfort displays for machine parameters - still in use today, 19 years later. Jonathan has two children: Sarah, is a beautiful 15 year old who is an artist and chef; Jacob, is a very handsome 12 year old who is a musician and enjoys baseball playing. Jonathan says that working at C-AD has been great! Excellent people. It has been an interesting 20 years, from learning the operational aspects of the Accelerators, to interacting with many C-AD personnel, and applying his cumulative experience of working at C-AD to his present job responsibilities.**



## Fun Time

Test your wit on holiday trivia by clicking [HERE](#).



## Did You Know

**Startle Hazard Warning Reminder: The RHIC beam abort kicker systems can generate loud noise when arcing. A warning sign is posted on ring entry gates in the area. The arcing is rare and many of you may have forgotten the issue.**

**Jim Alessi, Preinjector Systems, has been nominated for Fellowship in the American Physical Society. Jim's citation, which appears on his certificate, reads as follows:** *'For his many groundbreaking contributions to the development of intense negatively charged hydrogen (H-) beam sources, both unpolarized and spin-polarized, and the development of a high intensity Electron Beam Ion Source for the production of beams of high charge state heavy ions.'* **Election of APS Fellowship is recognition by your peers of your outstanding contributions to physics.**

**Elevation to IEEE Fellow - Dr. Thomas Roser was recently elevated to IEEE Fellow by the Board of Directors. Recognizing the achievement of its members is an important part of the mission of the IEEE. Each year, following a rigorous evaluation procedure, the IEEE Fellow Committee recommends a select group of recipients for one of the Institute's most prestigious honors, elevation to IEEE Fellow. Thomas elevation becomes effective January 1, 2010, with the following citation:** *'for contributions to the design of magnets in particle accelerator applications.'*

## **CONGRATULATIONS JIM AND THOMAS!**

**We received a piece of good news that Dr. Hiromi Okada, new last name is Iinuma (Guest Scientist working with Yousef Makdisi and the RHIC Polarimetry Group) has recently had her thesis research and publications from data taken with the RHIC Polarized Hydrogen Jet Target was recognized for a Young Scientist Award of the Physical Society of Japan. Measurements of single and double spin asymmetry in pp elastic scattering in the CNJ region with a polarized atomic hydrogen gas jet target, Phys. Rev. D 79 (2009) 094014 and Measurement of the analyzing power AN in pp elastic scattering in the CNJ region with a polarized atomic hydrogen gas jet target, Phys. Lett. B 638 (2006) 450. The URL announcement in Japanese and English can be found here:** <http://wwwsoc.nii.ac.jp/jps/WakateA/wakate2010.htm>



**Chaofeng Mi, Electrical Systems, married Yue Xi at a wedding ceremony in Beijing on October 25th. Yue graduated from Southern Denmark University in 2007 and is currently working at Pitney Bowes as a user-centered designer. Here are a few photos:**



**CONGRATULATIONS!**

## **UNITED WAY**

**Subject:** United Way Campaign- Coin Challenge!

Hi Everyone,

I would like to introduce myself as your United Way Department Representative along with Christine Meyer and Arthur Fernando. Today is the official start of the fund drive and I will periodically send emails on the fundraisers that we have planned. Due to the poor economy and with approximately 56,000 jobs lost alone on Long Island, this will be a particularly challenging time to ask people to donate. We at BNL are very fortunate to have jobs and I think it is important to stress that donations made on Long Island, STAY on Long Island. With 85 cents of every dollar going directly to support over 100 local programs, it is a great way to support your neighbors and your community.

The first fundraiser we have planned is "The Coin Challenge". We have placed large empty water bottles on each floor in Bldg. 911 near the mail areas. We are asking everyone to donate their loose change to support the United Way and also to have a little friendly competition among the 3 floors. If you are located in an outlying building, please choose a floor of your choice to help them win.

These water bottles will remain available for donations until the middle of December when we tally the results and pick the winning floor. There will also be a prize!

Thank you in advance for your support!

Ann

**Subject:** "Dollar and a Dream", United Way

Hi Everyone,

You have all heard the New York State Lottery slogan - "All you need is a Dollar and a Dream".

By now most of you have received the United Way pledge forms in the mail. If you have never participated in the United Way, by just pledging \$1.00 through easy payroll deductions, you can help make dreams happen for families in need. There are about 300,000 families on Long Island using the food pantries which is just one of the charities that the United Way

supports. This will be particularly difficult holiday season for most families that lost jobs or suffered pay cuts. For those of you who do not want to contribute through payroll deduction, how about making a one time contribution to help meet our goal? Those of you who return your pledge forms by Nov. 20th will be eligible for an early pledge drawing for one of 5 \$50.00 American Express Gift checks.

Many of us have our personal charities that we donate to - please take a moment to look at the pledge information and think about supporting the United way of Long Island this year.

Thank you,

Ann

This was the department basket put together by Christine Meyer and donated to United Way. Christine's theme was 'family night'.



## THE COLLIDER ACCELERATOR BAKE SALE TO SUPPORT THE UNITED WAY OF LONG ISLAND



**CHEESECAKE  
COOKIES**



**BROWNIES  
CAKES**

# COOKIES

# CAKES

DATE: TUESDAY, DECEMBER 8<sup>TH</sup>

PLACE: BUILDING 911, MAIN LOBBY

TIME: 9:00 UNTIL 1:30

Please come and enjoy the delicious treats baked by your co-workers such as:

*Gary's Great Cheesecake*

*Anna's Awesome Brownies*

*Marion's Marvelous Carrot cake*

*Susan's scrumptious Fudge*

*Ann's Amazing Cream Puffs*

*And more.....*

Prices as marked on each individually wrapped item

**From:** Blydenburgh, Tracy R  
**Sent:** Tuesday, December 01, 2009 1:54 PM  
**To:** CAD Personnel List  
**Subject:** Please help with the gift of a new toy!

Hi Everyone,

My way of contributing to the United Way is to help someone less fortunate than I am, and Christmas is not the only time I do that. It just seems at this time of the year we are asked over and over again to make a donation to someone for food, clothes, toys, or money. I am reaching out today to ask everyone that when you make your donation that you consider my cause. Some may have seen in the paper or on the news recently that the Hope for Future Ministries headquarters in Farmingdale was destroyed by fire. Hope for the Future Ministries supplies food, clothing and toys for thousands of needy families. The devastating fire destroyed the kitchen, the food storage warehouse, offices and the refrigerated van. Police say that the fire appeared to be intentionally set. This has greatly impacted their ability to help families throughout Long Island and New York City.

It is a real shame. I cannot judge or condemn people for their current situations, but I really feel sad for the children who will get nothing for Christmas while so many others get so much.

My 14 year old daughter Ashley and her youth group at the Wading River Congregational Church are collecting a new wrapped toy, with a tag attached stating the age group and gender the toy is suitable for. Something as simple as a deck of cards, board game, or baby doll can make some child's holiday much brighter. If you would like to make a donation, please deliver it to me in B911A, Rm A-136 by Friday December 11. If you don't have time to wrap the toy... no problem, I can take care of it.

Thank you so much.

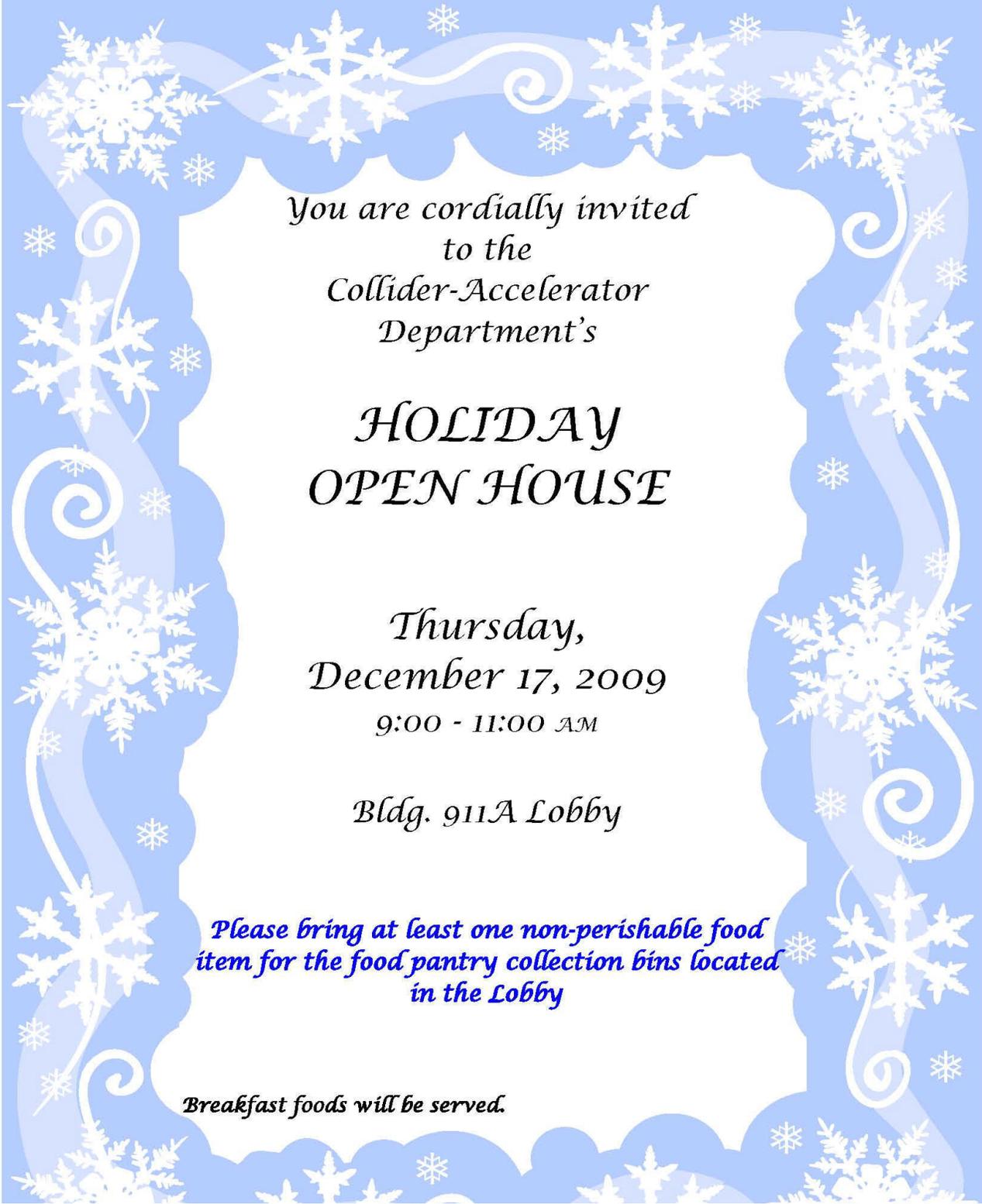
Tracy Blydenburgh

**From:** Heimerle, Marion V

**Sent:** Monday, November 09, 2009 4:11 PM

**Subject:** Sad News - Bill Tuttle Passed Away

We have learned that Bill Tuttle, a former C-AD employee, passed away over the weekend at 91 years of age. There will be a memorial service this Saturday, November 14, starting at 2:00 p. m. at the McLaughlin-Heppner Funeral Home in Riverhead (336 Marcy Avenue; tel. 727-3388).



*You are cordially invited  
to the  
Collider-Accelerator  
Department's*

***HOLIDAY  
OPEN HOUSE***

*Thursday,  
December 17, 2009*

*9:00 - 11:00 AM*

*Bldg. 911A Lobby*

*Please bring at least one non-perishable food  
item for the food pantry collection bins located  
in the Lobby*

*Breakfast foods will be served.*



## XEROX IS DOING SOMETHING COOL

If you go to this web site, [www.LetsSayThanks.com](http://www.LetsSayThanks.com) you can pick out a thank you card and Xerox will print it and it will be sent to a soldier that is currently serving in Iraq. You can't pick out who gets it, but it will go to a member of the armed services.

How AMAZING it would be if we could get everyone we know to send one!!! It is FREE and it only takes a second.

Wouldn't it be wonderful if the soldiers received a bunch of these? Whether you are for or against the war, our soldiers over there need to know we are behind them.

This takes just 10 seconds and it's a wonderful way to say thank you. We can never say enough thank you's.

Thanks for taking to time to support our military!

## Vaccinations for Seasonal Flu and the H1N1 Virus

The Lab's Occupational Medicine Clinic (OMC) held its usual annual flu vaccination campaign October 13th through 16th. Due to overwhelming demand this year, all seasonal flu vaccine was used up and OMC has been unable to locate a source of additional vaccine. We therefore must advise you to inquire with your own physician about vaccine. The Suffolk County Department of Health Services is also holding seasonal influenza immunization clinics. [View dates, times and locations.](#)

The State and County Health Departments will be distributing the H1N1 (swine) flu vaccine. We have therefore been in touch with the New York State and Suffolk County Health Departments and have requested that BNL be on the distribution list for vaccine when it becomes available. As you may have heard, it is anticipated that, at least initially, there will not be enough vaccine for the entire population. In that case, priority groups -- as designated by the CDC, the Centers for Disease Control and Prevention -- will be offered the vaccine first.

The highest priority groups for H1N1 vaccination within the adult population are: health care workers, pregnant women, and individuals caring for infants six months old or younger. The next highest adult priority group are individuals 24 years old or younger and individuals over 24 years old with chronic conditions that increase risk from the flu, such as diabetes, immune disorders as well as heart, lung and kidney diseases.

Note that this special vaccine will not be available until late October at the earliest. OMC recommends that, if you are in a priority H1N1 vaccination group and have the opportunity to receive the vaccine through your own physician, you avail yourself of that opportunity rather than waiting to get it through OMC.

## Guidance from the Clinic

1. **Be aware of the symptoms that may indicate H1N1, which are similar to symptoms of regular seasonal flu, and include fever, cough, sore throat, body aches, headache, chills and fatigue. A significant number of people who have been infected with this virus also have reported diarrhea and vomiting. See [this CDC website](#) for more information.**
2. **Prompt reporting is key. If you call from home to report that you may have the flu, your supervisor has received guidance to advise you not come to work, but instead to call your physician and also call OMC at Ext. 3670 and ask to speak to a nurse.**
3. **If you fall ill at work with symptoms that could indicate the flu, do not go to OMC. Instead, if you are seriously ill, call Ext. 2222 for medical assistance. If symptoms are not severe, please call OMC at Ext. 3670 and speak to a nurse. Unless OMC is confident that the illness is not influenza, you will be promptly sent home with a recommendation to call your primary care physician. If you become ill at work when OMC is closed (after hours or on a weekend), notify your supervisor. If you are seriously ill, promptly call Ext. 2222 for medical assistance. Otherwise, upon direction from your supervisor, return home, and call your doctor or seek medical attention. Also leave a message with OMC and call OMC the next regular Lab business day.**
4. **If one of your coworkers comes down with flu-like symptoms, stay at least six feet away from that person until they have been sent home. After the coworker has departed, your supervisor will arrange disinfection of common surfaces that the sick worker might have touched and that others are likely to touch, as the flu virus can survive on a surface for up to about eight hours. Wash your hands frequently with soap and water or alcohol-based waterless hand cleanser.**
5. **Employees who had close contact with a possible flu case can call OMC at Ext. 3670 for advice. They may also wish to consult with their personal physician. If caring for someone with the flu at home, contact OMC for guidance before returning to work.**
6. **After an employee with suspected influenza recovers, (s)he must be cleared for return to work by OMC, even if his or her absence was less than five days.**
7. **Remember, the best protection from H1N1 or Seasonal Flu is washing your hands.**



*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.*

**WWW.BNL.GOV/BERA**

**FOOD & TOYS NEEDED!**

Drop off in 400 or 488! THANKS!

**NOTICE: The BERA Store will be closed December 24 thru January 3, reopening on Jan 4, 2010. Plan your shopping accordingly~**

**by December 21, 22, 23 for cool stocking stuffers, movie tickets & more!**

*Gift ideas:*

***RANGERS KNICKS MOTORCYCLE SHOW***

**No reservations without payment. You may make your reservations at the BERA Store in Berkner 488 (Monday - Friday, 9:00am to 3:00pm). All tickets are NON-REFUNDABLE. Ext. 3347**

**A Weekend in STOWE VERMONT! Jan. 29-31, 2010**

**We have expanded hours for the Swimming Pool on December 28, 29, 30 Mon-Wed. from 2-5pm to help keep the kids busy!  
A parent must be present.**

**FREE!**

**FITNESS AT BNL Do It! <http://www.bnl.gov/bera/recreation/fitness.asp>**

**FACILITY CALENDAR <http://www.bnl.gov/bera/recreation/calendar.asp>**

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

**Subject: BERA update 12/01/09**

**December 9<sup>th</sup> – PPM's Bagel and Coffee Breakfast To Go, Bld. 355 Ground Floor**

**December 15<sup>th</sup>-17<sup>th</sup> – Gift Wrapping, Berkner Hall**

**<http://intranet.bnl.gov/unitedway/fundRaising.asp>.**

\*BERA Holiday Party Friday, December 11, 2009 - BERA Holiday Party will be at the waterfront Miller Beach Surf Club on Friday, Dec 11th. 7-11pm \$50 per person includes dinner buffet, open bar and DJ dancing. Promises to be a great time! Limited to the first 100 ticket buyers. No sign up without payment and no refunds.

\*NYC Bus Trip Sunday, December 13, 2009 - Do-As-You-Please bus trip to NYC. The coach bus will leave Brookhaven Center at 10am and leave NYC at 6pm. When you are making your reservations, you may request pick up at exit 63. Tickets are \$15 per person and children under 2 are free if they sit on parents' lap.

\*NY Knicks: Sunday Jan 24 vs. Dallas 1pm game AND Tues March 23 vs. Denver. Only 50 tickets, both are in section 310, \$55 pp includes ticket & bus

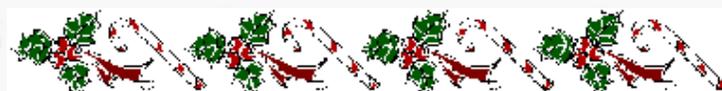
\*NY Rangers Wednesday, February 10, 2010 vs *Nashville* - Game at 7pm Section 322 (Only 40 tickets) Cost is \$75 per person and includes coach bus and ticket. The coach bus will leave Brookhaven Center at 4pm and leave Madison Square Garden at the end of the game, approximately 10pm.

\*International Motorcycle Show January 24 Sunday Leave Brookhaven Center at 8am, leave the Javits Center in NY at 4pm. \$ 20 PP includes ticket & bus. (52 tickets only)



**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)**

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





# December 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1  Physics Colloquium "Dark Matter Scattering and the Flyby Anomalies" Stephen Adler, Inst. for Advanced Study, Princeton, NJ, 3:30pm, Bldg. 510 Large Seminar	2	3	4  Celebration for Satoshi Ozaki, recognizing his 80th year and his 50th anniversary at BNL, 1pm, Berkner	5  Trombonist Ray Anderson to be opened by Michael Jazz Trio, 8pm, Berkner
6	7	8  Physics Colloquium "The Global Heliosphere Revealed: First Results from the Interstellar Boundary Explorer Mission" Nathan Schwadron, Boston U., 3:30pm, Bldg. 510 Large Seminar	9  Attacca String Quartet in Recital, Noon, Berkner Hall	10	11	12   Happy Hanukkah
13	14	15  Physics Colloquium "Quark-Gluon Plasmas at Weak Coupling" Peter Arnold, U. of VA, 3:30pm, Bldg. 510 Large Seminar	16	17  C-AD Annual Breakfast 9am Lobby	18  C-AD AP Seminar "Ongoing Challenges in Nuclear Power", Tomasz Bakowski, SUNY Stony Brook, 4pm, Bldg. 911B LCR	19

20	21 Winter Begins	22	23	24 1/2 Lab Holiday Christmas Eve	25 Lab Holiday 	26 Boxing Day Kwanzaa begins
27	28	29	30	31 New Year's Eve 		



# January 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 Lab Holiday New Year's	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18 Lab Holiday 	19	20	21	22	23

24 31	25	26	27	28	29 C-AD AP Seminar "Advanced Chromaticity Correction Schemes for IRs in Electron-Hadron and Muon Colliders at C-AD/CASA Accelerator, S. Alex Bogacz, CASA, TJNAF, 4pm, Bldg. 911B LCR	30
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We Remember USS New York - A ship forged from the steel of the World Trade Center.

Sept. 11, 2001

Editor: Pamela Manning x4072