

Particle Post November 2007

"A thankful heart is not only the greatest virtue, but the parent of all the other virtues."~Cicero

Previous issues

A Note From Our Chairman



The NSRL run was just successfully completed. Lots of experiments were completed and Adam Rusek, Mike Sivertz, I Hung Chiang, Betsy Sutherland and her team from Biology and Peter Guida and his team from Medical are busily preparing for the Spring run in March. This is scheduled to be a long one. Congratulations to the entire team for a successful run.

The RHIC startup is now in full swing. At this writing, the cooldown is well underway and a deuteron beam has been transported to the W beam dump. We will be running deuteron-gold collisions followed by polarized protons, provided the Congress passes a FY2008 appropriations bill. We are still operating under a continuing resolution, which will only support the deuteron-gold running. Another "interesting" fiscal year is upon us.

Congratulations to Ilan Ben-Zvi for being elected a Fellow of the American Association for the Advancement of Science (AAAS). Well deserved.

Congratulations to Ady Herscovitch for being elected a Fellow of the American Physical Society (APS) in the Division of Plasma Physics. [Editors note: see piece below on Ady.]

I would like to remind everyone to work safely and in an environmentally acceptable manner. Work planning is an essential aspect of all tasks we undertake. Thinking before acting will minimize your chance of suffering injury both at work and as well as at home.

Misuse of government computers can at the worst lead to both dismissal and criminal prosecution. Some people have just not learned that the viewing etc. of sexually explicit material is such a violation which will definitely lead to disciplinary action. This behavior will not be tolerated at C-AD.

Administration



Once again, it is unlikely that we will have a budget until after the New Year's Holiday. Based on the initial guidance provided by the Nuclear Physics Program Office, C-AD is planning to an FY 2008 operating budget of \$120.5M which includes \$114.6M in new operating funds and \$5.9M in funds carried forward from FY 2007.

Although the guidance will support RHIC Run 8 at 30 weeks, anticipated increases in power cost on the order of 25% to 30% will mean reduced allocations for materials and services in the current year. Additionally, until a final budget is in place, new funding is provided in 4 to 6 week increments only. Thus, monthly expenditures must be constrained so as not to exceed the prior year carry forward plus approximately 1/12 of the annual guidance. With power bills in excess of \$1M per month during operations, this becomes increasingly difficult through time.

We must also be prepared for the possibility that a year long Continuing Resolution (CR) at FY 2007 funding levels could be imposed. If, in February, this possibility remains, we will need to terminate the run and apply the financial brakes to immediately and dramatically reduce cost.

Limiting expenditures now would make a year long CR less painful should it become a reality. And in the event of a budget at or near the current guidance, help to insure that we remain on track with our aggressive R&D program as well as infrastructure upgrades already in process.

Machine Update



The focus of machine operations is now fully on the RHIC Startup, after the successful conclusion of the NSRL run at the end of October. The RHIC cool-down of both rings has been accomplished in record time: pre-cooling the beam to 45K the week before November 1, the planned start of the liquid helium cool down, made the latter extremely fast. In less than 6 days both rings have been brought to 4.5 K.

Work with beam in the injectors started on October 22 and Booster and AGS are ready for injection into RHIC. The start-up was not trivial since both deuteron and gold needs to be delivered and bunch merging schemes in Booster and AGS had to be developed. It is also critical to be able to timely switch from deuteron to gold to optimize filling time: that has already been demonstrated in MCR with a switch record time of 2 minutes and a few seconds.

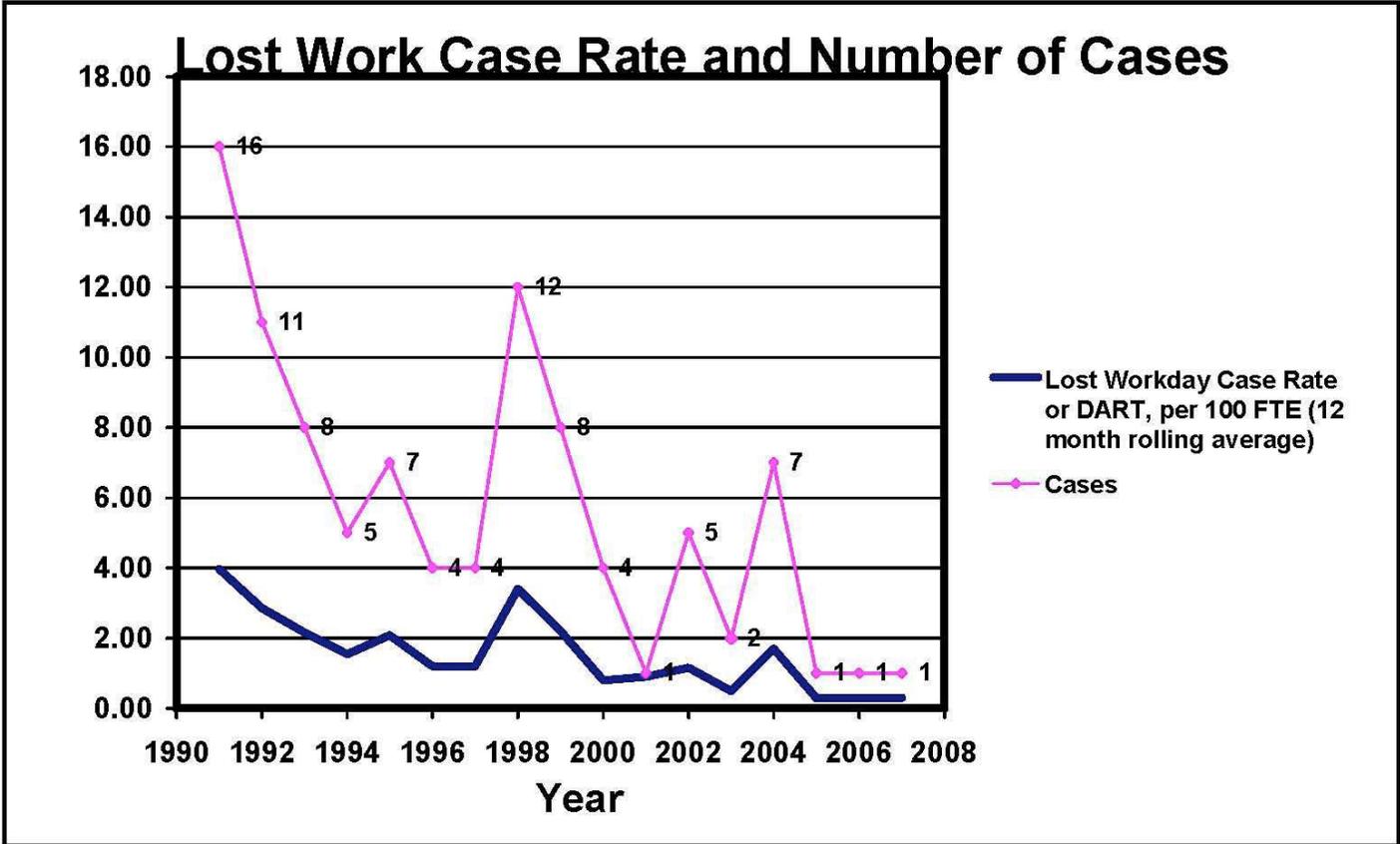
At writing time we are getting ready to sweep RHIC and if all goes well we will have beam in blue tonight. Blue set-up with deuterons will continue in evening and nights for the next couple of days until the yellow beam will become available for beam work with gold. Machine set-up and luminosity ramp up will follow with the goal of delivering first collisions around November 22 and starting the physics run on December 1st, or possibly earlier. Up to date information from Kip Gardner, the Run Coordinator for the d-Au run, on the RHIC run organization and progress can be found on <http://www.cadops.bnl.gov/AP/RHIC2008/>

We held the APEX Workshop on November 1-2 to prepare the beam experiments program for the upcoming run. All presentations are available at

<http://www.c-ad.bnl.gov/APEX/APEXWorkshop2007/index.htm>

Safety Stats

as of October 4th



C-AD Occupational Injury Statistics

For Year* 2006 For Year* 2007

First Aid Cases	1	4
Recordable Cases	5	1
Lost Work Cases	1	0

* Calendar Year

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

EXCHANGE DATE: FRIDAY, DECEMBER 7, 2007

Pete Cirnigliario



Arrivals

Edward Bajon has joined us again on November 5, working with Ioannis Marneris in the Electrical Systems Group.

Chaofeng Mi has rejoined us on October 8, working with Don Bruno in the Electrical Systems Collider Electrical Power Supplies Group.

Benjamin Pucci, started work us on October 22, working with Ted D'Ottavio in the Controls Division.

WELCOME!!

Departure

Dawood Aized, Cryogenic Systems Group will be leaving November 9.

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



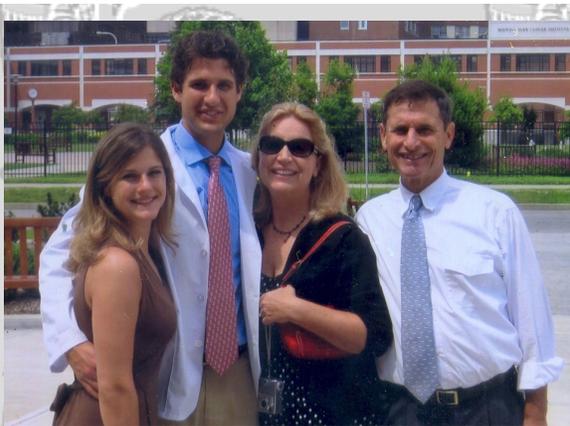
C-AD Service Awards October

25 years	<p>Pablo Rosas</p> <p>Alfred Della Penna</p> <p>Robert Lambiase</p>
20 years	<p>Peter Helig</p> <p>William Themann</p>

Congratulations to ALL!



Get to Know Your CoWorker



Ady Hershcovitch, Preinjector Group, has worked at C-AD/BNL for over 27 years and has worked on such projects as EBIS, RHIC Electron Beam Cooler, and ERL. Ady and his wife Kathy have 2 children, Matt, age 24 has graduated MIT with a BS degree in Nuclear Engineering, and now he is a third year medical student at SUNY Buffalo School of Medicine; and daughter Lara, 22, has also graduated MIT last June with a BS degree in Brain and Cognitive Sciences. On August 4th, Lara started medical school at Vanderbilt University School of Medicine. In Ady's spare time he enjoys playing tennis, soccer and bike riding.

The above photo was taken at Matt's clinician ceremony (at the beginning of third year medical school) showing (L to R) Lara, Matt, Kathy, Ady.

Ady was recently honored by the Council of the American Physical Society at its September 2007 meeting by being nominated for Fellowship in the Society. As you may know, election of Fellowship in the American Physical Society is limited to no more than one half of one percent of the membership. The citation, which will appear on his Fellowship Certification, will read as follows:

"For inventing and developing original plasmas devices, as well as improving existing devices for applications in research and industry that led to new technologies and new physics."

Congratulations on being elected a Fellow of the American Physical Society Ady.

Fun Time

Thanksgiving Turkey in wreath jigsaw. [Click here.](#)

Thanksgiving Word Puzzle. [Click here.](#)

(These websites leave BNL domain.)

Did You Know



Mei Bai: Teaching in an African Orphanage Monday, November 05, 2007 Mei Bai, a physicist in the Collider-Accelerator Department, is used to a fast-paced, high-tech world working at the Relativistic Heavy Ion Collider. While on vacation this summer, however, she learned about a completely different way of life. Through an organization called Global Crossing Road, Bai volunteered to teach children at an orphanage in Mlolongo, Kenya. Mei Bai with four guides in Kenya. For two weeks, Bai stayed in the home of a local family, where her showers consisted of buckets of water shared with six children and their mother, and meals such as goat stew, corn meal, and scuma -

a type of cabbage - were eaten without utensils. As a paying guest, Bai was privileged to have her own bed, but many of the children slept on the floor. The children Bai taught were poverty-stricken; she noticed that many had no shoes. Many of the children may have been HIV-positive because their parents had suffered that fate. The children's English-speaking skills were poor, and, it became apparent to Bai, so were their math skills. "I'd tell them a rat has four legs, and I'd draw a picture of a rat with four legs and count them," Bai said. "They counted the legs with me, and they would answer, 'Four legs,' when I asked them the number of legs the rat had. But when I asked, 'How many legs do I have?' they answered, 'Four!'" Despite their numerous hardships, Bai said the children were generally in high spirits. She made sure they had fun, buying them lollipops, organizing soccer games, and taking them on a field trip to a giraffe center. While in Kenya, Bai wanted to go on a safari. She joined a group traveling through some of Kenya's national preserves, where she saw numerous wild animals close up, including lions and cheetahs. Bai said her African trip was both enlightening and fulfilling. "I bonded with one six-year-old boy, in particular, and I had a fleeting sense of being a mother, which I never experienced," she explained. "Also, I saw the vast, seemingly untouched land of Africa - the way land is supposed to be. And I saw shocking poverty, which makes me appreciate what I have." Next year, Bai is planning a trip to China to visit her family. But in 2009, she would like to go back to Africa to volunteer again. And if any BNLer wants to join her, you are welcome to come along.

Think you or one of your colleagues has a good story to tell? Email us! Although we can't write about everyone, we would love to hear your ideas and suggestions. 2007-411 | Media & Communications Office

Adopt-A-Platoon. Please see the following link for details:

http://www.bnl.gov/bera/activities/va/Adopt_A_Platoon.asp

Please note that Adopt-a-Platoon will be in Berkner Lower Lobby each day this week starting at 11:15am.

Thanks for your cooperation.

Unbelievable, can't imagine how long it took to line all of these men up just right to get such a picture. During the WWI years, Arthur S. Mole and John D. Thomas made some incredible human pictures by using thousands of sailors soldiers in uniform to create images.



STANDING TALL Titled "Human Statue of Liberty," this image was taken at Camp Dodge in Iowa and used eighteen thousand men.

The following message is being distributed on behalf of the Lab's Occupational Medical Clinic.

Recent news reports about antibiotic-resistant strains of a bacterial infection known as MRSA in several Long Island schools have prompted concerns about the risk of getting such an infection in the workplace. While there are no documented cases of MRSA at BNL, it never hurts to follow standard infection-prevention procedures to protect yourself from this and other infections.

To prevent infections:

- * Wash your hands frequently and thoroughly. Use soap and warm water or an alcohol-base hand sanitizer. Experts suggest that you wash your hands for as long as it takes you to recite the alphabet.**
- * Cover cuts and scrapes with a clean bandage. This will help the wound heal. It will also prevent you from spreading bacteria to other people.**
- * Do not touch other people's wounds or bandages.**
- * Do not share personal items such as towels or razors.**
- * Wipe down gym equipment before and after use.**

Brookhaven National Laboratory www.bnl.gov Media & Communications Office Phone: (631)344-8350 Bldg. 400 - P.O. Box 5000 Upton, NY 11973 Fax: (631)344-3368

Patricia Hein's Retirement Party at "J&R Steak House" at 6:00 pm on Thursday November 15th. Complete Dinner and Gift will be \$30 per person. Please RSVP as soon as possible.

"J&R Steak House"
181 Route 25A
Rocky Point, NY 11778
Rolling Oaks Country Club
(631) 744-2101

Appetizers (Choice of one)
Shrimp Cocktail or J&R's Buffalo Wings

Salad
Caesar Salad

Entrees (Choice of one)
Chicken Francaise or Prime Rib Au Jus or Boiled Salmon

Side Dishes
**Potato & Vegetable
Vegetable Du Jour
Bread & Butter**

Dessert
Cake Coffee and Tea

*Denise Monteleone
Biology & Medical IT Liaison, CSPOC
Brookhaven National Laboratory
Biology Department
Upton, New York 11973-5000*

**Phone: (631)344-7860
Fax: (631)344-3407
Email: dcm@bnl.gov**



FITNESS CLASSES AT BNL November 2007 to January 2008

Enjoy BNL's Pool, Gym, Parcourse, Tennis Courts and all fitness activities! Tours of the Pool, gym and exercise room are always available, please call ext 2873. FOR A LISTING OF ALL CLUBS & ACTIVITIES, PLEASE GO TO www.bnl.gov/bera

The following classes do not require registration and are either FREE or Pay-As-You-Go:

Aerobic Fitness

Tuesday & Thursday in the Rec Hall at 5:15pm
10 Classes for \$40, or \$5 per class
Contact Pat Flood x7866 or email: flood@bnl.gov

Jui Jitsu

Tuesday in the Gym from 6:30-7:30pm
All levels, ages 6 and above. \$10 per class
Contact Tom Baldwin x4556 or email: baldwint@bnl.gov

Ving Tsun Kung Fu

Tuesday, Thursday & Friday - 12 noon-1pm
at Brookhaven Center North Room
Taught by Master William Moy. Tuition
Contact Scott Bradley, x5745 or email: Bradley@bnl.gov

Reiki Healing Circle

Thursday, 12 Noon - 211 Conference Room
Contact Nicole Bernholz x2027 or email: bernholc@bnl.gov FREE

Yoga

Wednesday - 12 noon at Brookhaven Center
Contact ILA Campbell x2206 or email: ila@bnl FREE

Tai Chi

Monday, Thursday & Friday, 12 noon-1pm
at Brookhaven Center North Room
Contact Adam Rusek, x5830 FREE

Cardio KickBoxing

Monday & Thursday -12 Noon at Gym
\$5 per class - Pay As You Go
Contact Joanne Rula x8481 or email jrula@bnl.gov

ADVANCE REGISTRATION IS REQUIRED FOR THE FOLLOWING CLASSES
Please make checks payable to BERA and mail to: Recreation Office, Bldg. 400

AQUA AEROBICS

8 week session - \$20 for once a week, \$40 for twice a week
Tuesday & Thursday from 5:30-6:30pm at the Pool - Bldg. 478
Tuesday: Nov 6, 13, 27, Dec 4, 11, 18, Jan 8 & 15
Thursday: Nov 8, 15, 29, Dec 6, 13, 20, Jan 10 & 17



JAZZERCISE

\$90 for 8 week session of twice a week, plus you may use the Shirley location
Tuesday & Thursday from 12:00pm - 1:00pm at the Rec Hall - Bldg 317
Tuesday: Nov 6, 13, 27, Dec 4, 11, 18, Jan 8 & 15
Thursday: Nov 8, 15, 29, Dec 6, 13, 20, Jan 10 & 17

PILATES

6 week session - \$65 for once a week, \$80 for twice a week and \$130 for 3x
Monday & Wednesday from 5:15 - 6:15pm at the Rec Hall - Bldg 317
Monday: Nov 5, 19, 26, Dec 3, 10, 17, Jan 7 & 14
Wednesday: Nov 7, 14, 28, Dec 5, 12, 19, Jan 9 & 16
NOON Class on Monday: Nov 5, 19, 26, Dec 3, 10, 17, Jan 7 & 14



----- return with registration fee -----

2007 BERA FITNESS REGISTRATION - Jazzercise, Aqua Aerobics, and Pilates

Activity: _____ Class Day: _____

Name: _____

(Please Print)

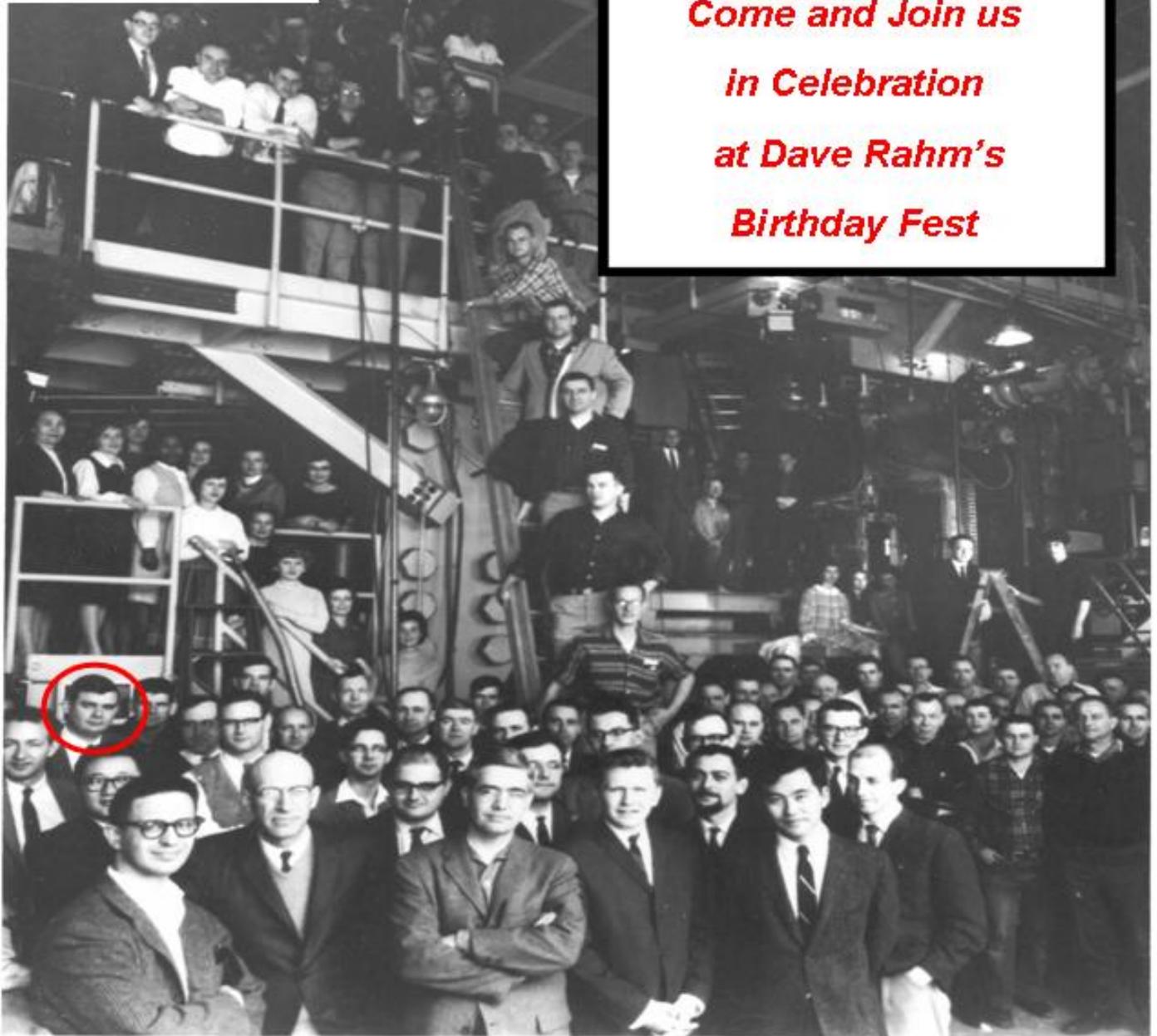
BNL Life/Guest Number: _____ Building Number: _____

Phone Number: _____ Email address: _____

Emergency Contact and Phone Number: _____

Please mail to: Recreation Office, Building 400

BROOKHAVEN
NATIONAL LABORATORY



Uncle Dave turns 80!!!

Come and Join us

in Celebration

at Dave Rahm's

Birthday Fest

Tuesday, December 18, 2007

Speakers include: *S. Aronson R. Palmer V. Radeka*
N. Samios W. Willis

The Fest begins at 2 pm in the Physics Dept. Large Seminar Hall

Join us for dinner at 6:30 pm.

Go to: www.usatlas.bnl.gov/DR80 to register or

Go to: www.usatlas.bnl.gov/DR80 to register or
Contact Linda Feierabend x4887, feierabe@bnl.gov



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.



November 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3

4	5	6	7	8	9	10
Daylight Savings End		Election Day	Health Promotion Program Lecture "Diabetes & Your Vision" James Maisel, 12noon, Bldg. 490 LCR	Health Promotion Program Lecture "Cooking Demo: Healthy & Easy Holiday Side Dishes" Amy Shapiro, 12noon, Bldg. 490 LCR		
11	12	13	14	15	16	17
Veterans Day		Physics Colloquium "Algorithms, Equations, and Logic" M. Davis, UC Berkeley, 3:30pm, Bldg. 510 Large Seminar Room	BWIS-sponsored talk "Diversity in Science and Engineering Faculty at Research Universities: Are we Preparing for the Great Crew Change", D. Nelson, U. of OK, 12 noon, Berkner			India's Diwali Festival, 2:30pm, Berkner
18	19	20	21	22	23	24
		Physics Colloquium "Many Body Physics of Graphene" Alexei Tselik, BNL, 3:30pm, Bldg. 510 Large Seminar Room			Holiday	
25	26	27	28	29	30	
			430th Brookhaven Lecture, M. Blaskiewicz, C-AD, 4pm, Berkner Auditorium	C-AD AP Seminar "LHC Commissioning", Dr. Helmut Burkhardt, CERN, 4pm, Bldg. 911B, LCR		



December 2007



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3 Health Promotion Program Lecture "Born to Be Alive: The Emotional Side of Diabetes" Carol Eberlein, 12noon, Bldg. 490 LCR	4	5 ★ Happy Hanukkah	6	7	8
9	10	11	12 431st Brookhaven Lecture, Bob Crease, SUNY Stony Brook, 4pm, Berkner Auditorium	13	14	15
16	17	18 Celebration of Dave Rahm's Birthday Fest, 2pm, Bldg. 510 Large Seminar Room	19	20	21	22 Winter Begins
23	24 1/2 Holiday	25 Merry Christmas	26 Happy Kwanzaa	27	28	29

30

31



**We Remember
Sept. 11, 2001**

Editor: Pamela Manning x4072

