

Particle Post January 2007

Here's to the bright New Year, and a fond farewell to the old; here's to the things that are yet to come, and to the memories that we hold.

~Anonymous

To review previous issues

A Note From Our Chairman



I would like to wish everyone and their families a happy and healthy New Year.

The past year was a roller coaster ride when it came to running RHIC. It took the largesse of James Simons and his colleagues at Renaissance Technology to provide the last part of the funds needed to allow us to run. This year we are still waiting for Congress to act upon a FY2007 appropriations bill. The House version was satisfactory, which was passed, and the Senate version was also satisfactory, but was not passed. Now what will the next congress do? In the meantime we have to be frugal and conservative in our planning.

The present run schedule has us turning on February 1 with gold-gold. This would then allow for 21 weeks of refrigerator operations, resulting in about 15 weeks of physics. It is yet to be determined as to whether we will switch to another species in addition to the gold-gold.

NSRL operations will begin on March 1 and will likely continue to June 30. The following run is presently scheduled for an early September start.

Linac operations for BLIP, will commence on March 7 for a period of at least 4 weeks.

The Nuclear Science Advisory Committee, NSAC, has been asked to produce the next 5 year plan for nuclear physics. RHICII and eRHIC are on the agenda to be discussed. We are completing the required information for DOE to start the critical decision process, CD0, for RHICII. We expect to have the CD0 information provided to the program office this January. eRHIC is still in the formative stage of its evolution. The Physics Department and prospective users have been tasked to define the science program and thus provide us with the high-level accelerator specifications. The C-AD team has not sat idly by and waited for the user input. Several new and promising ideas are being developed to enhance the performance and lower the cost.

The holiday breakfast, from all accounts, was a great success. I would like to thank Marion and Paul for

organizing the event. We will have to do it again next year.

On behalf of everyone at C-AD, I would like to express our sincerest sympathy on the death of Wolfram Fischer's mother.

Administration



We continue to await news from Washington regarding our FY 2007 DOE funding. An extension of the Continuing Resolution through February 15th, 2007 has provided \$39.9M in funding for RHIC Operations. This amount along with carry-forward funds of \$4.3M brings our available funding to \$44.2M. In terms of cash flow, we have sufficient funding to support an early start *provided* we have some assurances regarding the outcome of the budget process. In the absence of such assurances, the start date for RHIC Run 7 was again slipped by one month and tentatively set for early February.

RHIC operating expenses for December of \$7.6M continues to reflect significantly reduced levels of overtime and minimal expenditures for low value purchases, including stores issues and credit card procurements. Significant cost increases for Plant Engineering provided trade labor are wholly attributable to the addition of electricians and linemen who are addressing OSHA and arc flash related corrective actions.

On the EBIS Project, NASA funding has made possible continued progress on construction efforts, although the delay in DOE construction funding will soon begin to impact the project end date.

The next NSRL run is scheduled to begin on March 7th and here, again, the timely arrival of funding from NASA has enabled us to plan and work effectively.



The Equal Opportunity Committee (EOC) is available to all employees within the C-AD/SMD to address any concerns of unfair treatment, equal opportunity, harassment of any nature or to answer questions regarding the policies that govern these subjects. Feel free to contact a committee member.

Omar Gould

COLLIDER-ACCELERATOR DEPARTMENT and SUPERCONDUCTING MAGNET DIVISION EQUAL OPPORTUNITY COMMITTEE

The Collider-Accelerator Department and the Superconducting Magnet Division have a policy of equal opportunity and fair treatment in an environment free from harassment for all employees.

The joint Collider-Accelerator and Superconducting Magnet Division committee has been appointed to assist us in operating within the Equal Opportunity and Affirmative Action Policy guidelines of Brookhaven National Laboratory. You are encouraged to contact any one of the committee representatives if you have any equal opportunity or fair treatment concerns. They are here to help you.

A copy of the Laboratory's Equal Opportunity and Affirmative Action Policy Statement is available from the Diversity Office in Bldg. 185, from any of our Equal Opportunity Representatives, or on the web at <http://www.bnl.gov/diversity/policies.asp>.

Derek I. Lowenstein, Chairman
Collider-Accelerator Department

Peter Wanderer, Acting Division Head
Superconducting Magnet Division



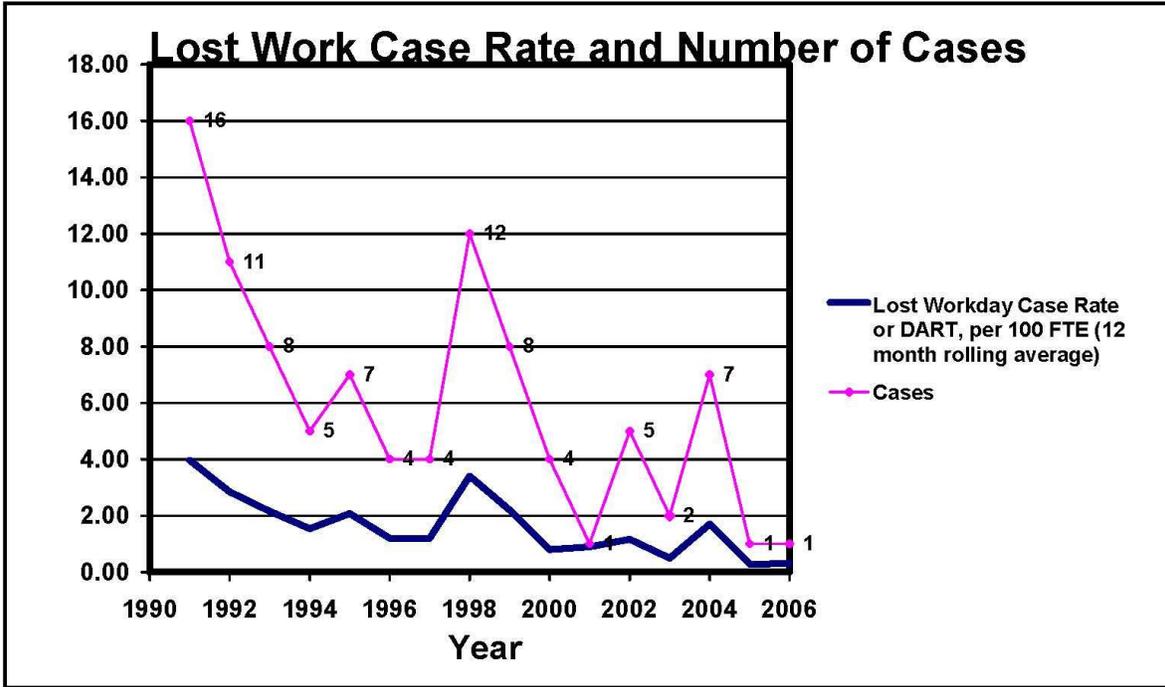
Committee Members
(from left to right)

Diana Votruba, Ext. 5123
Mei Bai, Ext. 3397
Ahovi Kponou, Ext. 4919
Joseph Tuozzolo, Ext. 3966
Omar Gould, Chair, Ext. 2656

Charles Gardner, Ext. 5214
Marion Heimerle, Ext. 4619
Vincent Castillo, Ext. 3772
Loralie Smart, Ext. 2425
Ann Lamberti, Ext. 7611



Safety Stats



C-AD Occupational Injury Statistics

	For Year* 2005	For Year* 2006
First Aid Cases	1	1
Recordable Cases	4	5
Lost Work Cases	1	1

* Calendar Year

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

NEXT EXCHANGE: Friday, JANUARY 5, 2007

Friday, February 2, 2007

Pete Cirnigliaro



UNITED WAY

From: Mirabella, Kerry A
Sent: Friday, December 08, 2006 9:16 AM
To: CAD Personnel List
Subject: Results from the Holiday Auction

The Grand total for the Holiday Auction, Yard & Book Sale is \$17,480!!!! Many thanks to all who participated by donating items, supporting our fundraiser, or spending time at Berkner handing over some cash.

The used clothing/toiletry drives continue, and the local need for non-perishable food means we will always have a box in the 911 lobby for those donations. If you're planning on attending the C-AD Holiday Open House on Wednesday the 20th, please consider bringing an item for the food drive to help others have a very happy Holiday season.

Thanks,

Kerry and Molly

From: Scannell, Molly
Sent: Thursday, December 21, 2006 11:56 AM
To: CAD Personnel List
Subject: call for donations

As some of us start leaving for the holidays, we would like you to keep the United Way in the back of your minds.

***Did you receive a bath basket for Christmas? Please think about donating the toiletries. They are given to battered women's shelters and the small, hotel-sized bottles are particularly useful.**

***Do you perhaps have an can of pumpkin pie mix (or other non-perishable food item) that didn't get used over the weekend? Again, please consider donating to the United Way, who then distributes the food to local soup kitchens.**

We have boxes for both food and toiletry donations in the lobby of building 911, and they will be there until the new year.

Thank you again for all of your fabulous support. As you saw on the "thermometer" on the way in, we reached our goal again this year, and I'm proud to be working with such generous people!

-Molly and Kerry



Arrivals

Dr. Ranjan Grover joined the department on Wednesday, January 3, working with Ilan Ben-Zvi in the Accelerator Division's E-Cooling Group.

WELCOME!!

Organizational Updates

John Cupolo, Controls Division Hardware Group has transferred to the Accelerator Division's Instrumentation & Beam Components Group working with D. Lehn.

Joe Sanfilippo, ES&F Division's Beam & Experiment Services Group has transferred to the Controls Division Access Controls Group working with D. McDonald.

Transfer

Antonio Hammill, RF Group transferred to Plant Engineering, effective January 1.



Get To Know Your Co-Workers

Paul Sparrow, has worked at the Laboratory for almost 40 years. Paul is presently the Facility

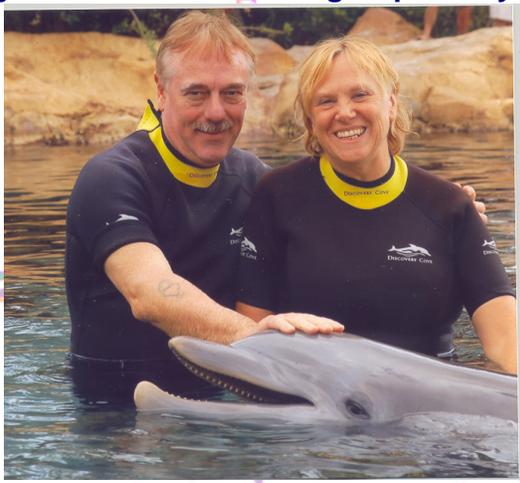
Manager Specialist, C-AD Administrative Group. His duties include Telephone Service Representative for C-AD and SMD. Building Manager of Bldgs. 835, 911, 918, 926, 1005S, 1101, and 1012. Warehouse manager of C-AD warehouses. Previously Paul held the position of Supervisor of the RHIC Security Group, which combined with the C-AD Access Controls Group. He did design, layout and fabrication of Safety Systems for RHIC and injection lines, and experimental areas. PASS, Particle Accelerator Safety Systems.

Paul was also an AGS Main Control Operator for 29 years. Operating AGS for record high intensity, operating beam lines to experimenters. Paul was the original creator of

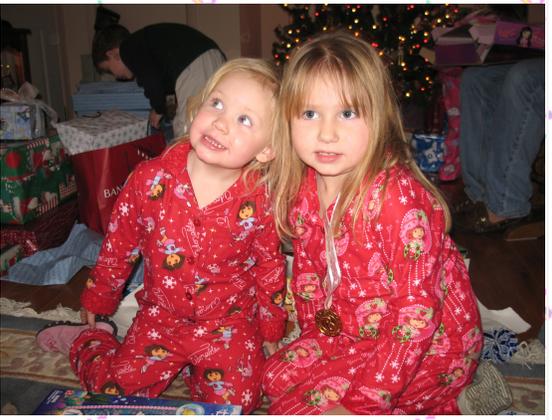
the AGS Backwards Clock (the clock that runs the way that AGS beam runs). Paul enjoys photography, woodworking, model trains and riding his motorcycle in his spare time. Paul and his wife Peggy (who also works at BNL) have 3 children: Joel, works for Mercy High School; David, works for Riverhead Building Supply and Sharon, Librarian at Horace Man School.



Larry Arnold, Beam & Experiment Services Group has been working for the Laboratory for 38 years and in the same group. Larry works on AGS switchyard upgrade, built the 21° magnet core, installed



thousands of feet of water-cooled buss for experimental magnets, the Booster installation, g-2 transport line, wound the first mineral insulated (radiation hardened) coils at BNL for magnets in A-line, D-line and the SNS project and recently the AGS Klixon upgrade. Larry enjoys video production in his spare time. Larry and his wife have six children (4 boys and 2 girls). Five are married and the youngest is completing his last year at Hofstra University. They have 2 children in Florida with 3 grandchildren and three children on Long Island with the other 7 grandchildren. Larry keeps busy throughout the year working at BNL, working on the house, doing video work and visiting the kids and the grandchildren.





Did You Know?

Yatming (Roberto) Than has been appointed head of the Cryogenics Systems Group.

Four Brookhaven Lab Physicists Named AAAS Fellows

December 11, 2006

UPTON, NY – Four physicists from the U.S. Department of Energy’s (DOE) Brookhaven National Laboratory – three currently working at the Lab and one retired – have been awarded the distinction of Fellow by the American Association of the Advancement of Science (AAAS). Sally Dawson, Derek Lowenstein, John Tranquada and Gordon Danby will be among 449 AAAS members to receive this honor for their scientifically distinguished efforts to advance science or its applications. The new Fellows will be presented with their award on February 17, at the 2007 AAAS annual meeting in San Francisco.

Derek Lowenstein was cited for his “leadership in operating the accelerators at Brookhaven National Laboratory, including the Relativistic Heavy Ion Collider (RHIC), the NASA Space Radiation Laboratory and the Alternating Gradient Synchrotron, at a very high level of performance.”



Since 2000, RHIC, a unique, world-class physics facility, has been recreating conditions of the early universe to study the properties of matter that existed at the first millionth of a second after the Big Bang. Physicists have made the intriguing discovery that this first form of matter may have been a “perfect liquid.”

Operating since 2003, the NASA Space Radiation Laboratory (NSRL) at Brookhaven simulates the harsh cosmic and solar radiation environment found in space. Research at the facility into the biological effects of space radiation will help assess risks to astronauts so that adequate preventive measures can be designed.

Since 1960, the Alternating Gradient Synchrotron (AGS) has been one of the world’s premiere accelerators, well known for three Nobel Prizes won as a result of research performed there. The AGS is the injector for RHIC.

Lowenstein received a Ph.D. in physics from the University of Pennsylvania in 1969. After holding a postdoctoral fellowship at the university, he joined the University of Pittsburgh as a research associate in 1970. He came to Brookhaven Lab in 1973 as an

assistant physicist, and he was promoted several times before becoming Chair of the Alternating Gradient Synchrotron Department, 1984-1999, then Chair of the Collider-Accelerator Department, from 1999 to the present. An APS Fellow, Lowenstein is a principal investigator at the NSRL and has served on numerous national and international science policy committees.

Winter Weather Reminder

When there has been a heavy snowfall, call 344-INFO or check the BNL home page prior to leaving home to learn if the Lab is open during normal working hours, will have a delayed opening, or is closed to all except essential personnel.



*We wish all of you born in **JANUARY**
a happy and healthy year ahead.
Birthday people ONLY click on cake*



C-AD Service Awards December

25 years	Ted D'Ottavio
20 years	Charles Gardner

Congratulations to ALL!



Fun Time

This game is good to see how your accuracy and speed can keep you challenged. Hope you enjoy!

Math Flash cards v1.9

Instructions

Before you begin, be sure to select the difficulty setting and math function that you want. These options are at the top of the page and can only be changed after the game has stopped. The difficulty option shows the range of numbers that the problem can be constructed from, (0-10 means the problem can be from $0+0$ to $10+10$).

To start a session, click on the '**New Player**' button. Enter your name, then click on the '**Start game**' button to begin answering the problems. To answer a problem, just click on the button under the answer you want.

The game will track how many answers you get right and wrong and how long it takes you to get the correct answer (in seconds). You can stop the game at any time by clicking on the '**Stop game**' button. This will put your current score in the Highscores area at the bottom.

To switch players, click on the '**New Player**' button. As you switch players, the previous player's score will be added to the Highscores area.

Copyright © 2003 [Patrick Lewis](#). All rights reserved.
Reproduction in whole or in part without permission is prohibited.

Choose difficulty

Choose Math function

?

Player scoring:

Name:	
Correct:	0
Incorrect:	0
Accuracy:	0%

Speed: **0 sec**

----- Highscores -----

Name

Difficulty

Accuracy

Speed

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

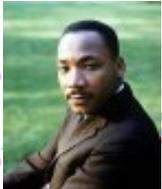


ALUMNI NEWS: AGS/RHIC/C-AD RETIRED CROWD - We'd enjoy hearing from you and what you have been up to. Please send your notes to pmanning@bnl.gov

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



January 2007

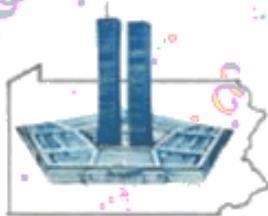
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Holiday	2	3	4	5	6
7	8	9	10 Euclid String Quartet in Concert at BNL, 12 Noon, Berkner Hall	11	12	13
14	15 	16	17 Brookhaven Accelerator Forum "Neutrino Factory and Muon Collider R&D: Status and Plans", Mike Zisman, LBL, 2pm, Berkner Rm B 421st Brookhaven Lecture "Practice of Color at RHIC" Zhangbu Xu, Physics Dept., 4pm, Berkner Hall	18	19	20
21	22	23	24 EAP Lecture "Bouncing Back: Stress Relief in Times of Uncertainty", Nancy Losinno, 12:00pm Berkner Room B	25 Health Promotion Program Lecture "The Weight Debate Continues", Amy Shapiro, 12:00pm Berkner Hall	26	27
28	29	30	31			



February 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
--------	--------	---------	-----------	----------	--------	----------

				1	2	3
4	5	6	7 Health Promotion Program Lecture "Dentistry in the 21st Century", Mitchell Shapiro, 12:00pm Berkner Hall	8 Health Promotion Program Lecture "Alternative Therapies for Diabetes", Amy Shapiro, 12:00pm Berkner Rm B	9	10
11	12 Lincoln's Birthday	13	14 	15	16	17
18	19  Holiday	20	21 422nd Brookhaven Lecture "Aerosols, Clouds and Climate - From Micro to Macro" Yangang Liu, ESD, 4pm, Berkner Auditorium	22 Washington's Birthday	23	24
25	26	27	28			



We Remember
Sept. 11, 2001

Editor: Pamela Manning x4072