

Particle Post March 2006

Ethical axioms are found and tested not very differently from the axioms of science.

Truth is what stands the test of experience. ~Albert Einstein

To review previous issues

A Note From Our Chairman

On the safety front, we are continuing to do extremely well. We are now well over 400 days without a lost workday. Everyone is to be congratulated in continuing our excellent safety record. Last year, 2005, we received a collective radiation dose of 1.4 person-rem, for an average received dose of 4 millirem. This year we are at 0.2 person-rem for an average received dose of 0.6 millirem. The average yearly dose from natural sources on Long Island is approximately 200 millirem.

The RHIC turn-on has moved along quite well this running cycle. We are ahead of the projected schedule and expect the start of physics operation very shortly. PHENIX, STAR and BRAHMS have been using the beam at night to tune up their detectors. BRAHMS will be shutting off shortly and be back for the 31.2 GeV part of the run. A major success has been the development and implementation of a first of its kind beam tune and coupling feedback control system (Qloop), that Peter Cameron has developed. This is a major step forward in accelerator technology. I expect that the CERN LHC will be using it when they turn on and there will be more to come with a system to also control the beam chromaticity.

On the grandparent front, I would like to thank everyone for their congratulatory wishes on the birth of Elaine and my first grandchild. The latest report from Houston is that Alexander is doing well, gaining weight, growing and beginning to develop a personality.

I would like to congratulate John Hauser and the Hauser clan on the birth of their latest grandchild. That makes 3 girls and no boys, from his 3 daughters and no sons. I see a trend here.

On March 9, Dr. James Simons and other guests will visit C-AD, where we will have the opportunity to thank him for his financial support. Dr. Simons will visit the main control room and have the opportunity to bring the two proton beams into collision for PHENIX and STAR.

In late February we had the opportunity to present our budget and plans to the DOE Office of Nuclear Physics. The meeting was very productive and our initial feedback was excellent satisfaction with our presentation and plans regarding RHIC operations, the EBIS Project, RHICII and eRHIC. One result of this meeting is the expectation that we will be assisting DOE Nuclear Physics in requesting CD0 (mission need) for RHICII in early FY2007.



Derek Lowenstein

Administration

Monetary news continues to be good. The first installment of \$3.6M from the Stony Brook Foundation has arrived and costs for our 20 week cryo run are beginning to roll in. As requested, discretionary purchases appear to be suppressed but shift and overtime expense, nitrogen and helium deliveries, special procurements for Linac RF tubes and, most significantly, power consumption have begun to tell the financial story for RHIC Run 6.

The cost of electric power is a major concern in this fiscal year. Rates have been volatile, ranging from a high of \$103.46 per MWH in October to a low of \$79.23 per MWH in February. Incremental power for the 20 week run of \$7.2M is estimated at \$100 per MWH and each \$1 increase in the rate increases our total incremental cost by \$72,000.

Our budget plans for FY 2007 and 2008 are both complete and promising. A 34 week cryo run is planned in FY 2007. A shorter run of 30 weeks is planned in FY 2008 and the operational savings will allow for increased investments in R&D and facility upgrades. Manpower levels in the current year are thought to be at the lowest level and additional support for post-doctoral positions and students is planned.

Staffing changes within the administrative group are still in process. Ron Prwivo, an administrative professional in the Superconducting Magnet Division (SMD), has assumed responsibility for forecasting and monitoring of labor expense. Ron has been planning labor expense for the SMD for many years, so the transition to planning for both AD and AM should be an easy one for both him and for us. Please feel free to stop by and welcome Ron aboard.



Stephanie LaMontagne-McKeon

Machine Update

As we are all aware, this is a very busy time for C-AD operations.

After only 3 weeks of set-up and ramp-up, a record for polarized protons operations, RHIC is now in physics mode. The focus is now on the delivery of steady collisions to the STAR and Phenix experiments. Initial collision rates are about half of what we achieved at the end of last year polarized proton run, and polarization at about 45-50% at store, both figures of merit above the minimum requirement set for the start of the physics program. The day shift will continue to be devoted to machine development with the goal of maximizing the machine luminosity and polarization, and the accelerator physics experiment program is also ready to start.

Improvement in the delivered polarization to RHIC continues being the goal of AGS development. With RHIC in physics now, long stores should allow for more development time for AGS. A correlation between emittance, bunch intensity and polarization has been measured and is being studied. A set-up with the horizontal tune as close as possible to an integer will be tried, that holds the promise of optimizing the polarization transmission in AGS.

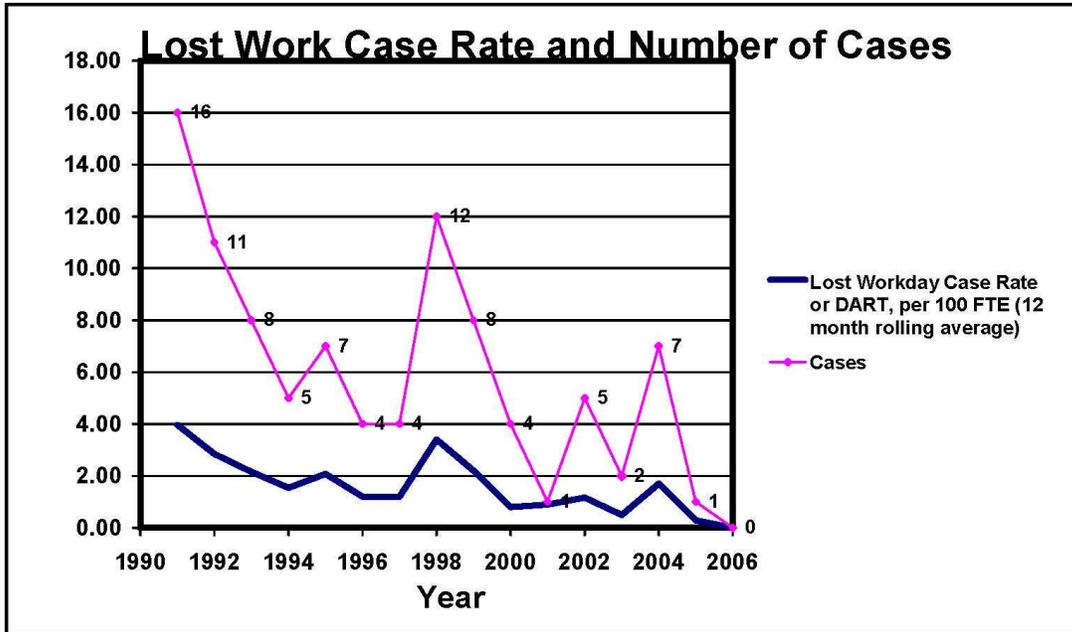
The NSRL run started as planned on March 1st, with the delivery of 1 GeV iron followed now by 300 MeV carbon, and will last until April 7th.

Last but not least, BLIP continues to run steadily.



Fulvia Pilat

Safety Stats



C-AD Occupational Injury Statistics

	For Year* 2005	For Year* 2006
First Aid Cases	1	3
Recordable Cases	4	0
Lost Work Cases	1	0

* Calendar Year

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

NEXT EXCHANGE: Have your TLD on its assigned badge board by

Friday, APRIL 7, 2006

Pete Cirnigliaro



Transfer

Brian Boyle, Administrative Group, transferred to the NSLS on March 1.

Departure

Jennifer Kozak, Machine Operations Group, will be leaving BNL on April 7.



Get To Know Your Co-Worker



Bob Lambiase works in the Power Supplies group and has worked at BNL for 27 years working on projects like RHIC and SNS and more recently ERL and EBIS. He has also worked in the Department of Nuclear Energy working on the SDI project and the Physics Department working on LEGGS. He and his wife Paula have one daughter, Angela who married last July to Jayson Kiang (Head, Math Department, Longwood High School). (All are shown in picture above.) Bob has also been teaching at Suffolk Community College for 25 years and the entire family is involved with Literacy Suffolk, Angela as a Program Assistant, Paula as a tutor and advisory board member, and Bob as a photographer (photography happens to be Bob's hobby). Bob feels truly grateful to be working at such a diverse place and is very appreciative of all the opportunities that the Laboratory has to offer.



Loralie and Cary don't have words to express what a complete joy Alina is. Ten months, cutting her 9th tooth.

**Join Us in Wishing
Congratulations**

to



Brian Boyle



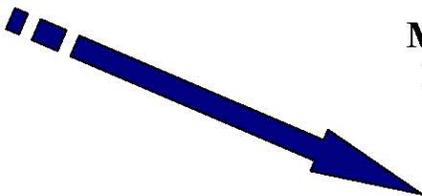
on

His New Position with the NSLS

Wednesday, March 15, 2006



**Coffee and Cake
2:00 PM
Main Lobby Area
Building 911A**



\$4.00 Contribution Toward Gift



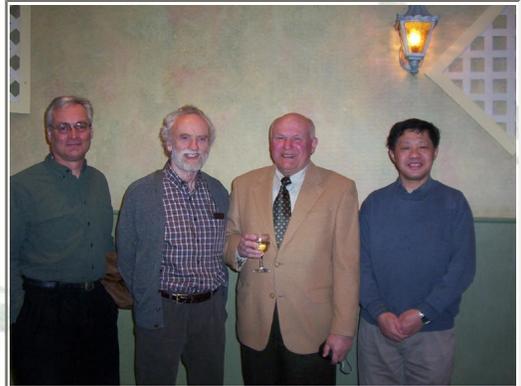
**RSVP
by**

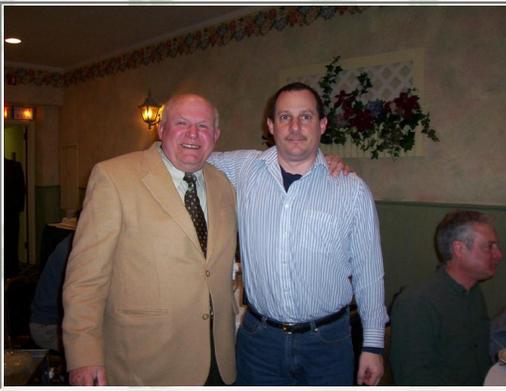
Thursday, March 9, 2006

**Marie Gavigan – Bldg. 911A (ext. 5894)
Paul Sparrow – Bldg. 911A (ext. 4689)**

Paul Sparrow – Bldg. 911A (ext. 4689)

Siegfried (Ziggy) Naase retirement dinner at the Polish Hall in Riverhead on February 28th.





Enjoy your retirement - We will miss you!!



Did You Know?

St. Patrick

St. Patrick is known as the patron saint of Ireland. True, he was not born Irish. But he has become an integral part of the Irish heritage, mostly through his service across Ireland in the 5th century. Patrick was born to wealthy parents (his father was a nobleman and a deacon) in the later half of the 4th century AD. There are different views about the exact year and place of his birth. According to one school of opinion, he was born about 390 AD, while the other school says it is about 373 AD. Again, his birth place is said to be in Scotland, Rome, or England. His real name was probably Maewyn Succat. But Patrick's privileged life came

to an end at age 16 when he was captured by slave raiders from Ireland. With a large group of prisoners, he was transported to the then pagan island. Sold as a slave to a king in the northeast, Patrick had the lonely task of tending pigs and sheep. In the midst of these harsh conditions, Patrick's faith flourished as he turned to God in prayer. After being held captive for six years, he heard a voice in his sleep say, "Soon you will go back to your homeland." A short time later, he heard the same voice say, "Your ship is ready." Trusting in God, Patrick set out on a 200 mile journey through unknown territory, when he arrived at the ship the captain at first refused to take him. But Patrick prayed to God for help, and the captain changed his mind. Then began a lifetime of dedicating his life to becoming a priest. He envisioned returning to Ireland to teach the Irish about Christianity. During his 30 years in Ireland, Patrick founded more than 300 churches and baptized more than 120,000 people. By the end of the 7th century, many legends had developed about him. One, of course, says he charmed all the snakes in Ireland and led them to the sea to drown. Another, probably the most popular, is that used the three-leafed shamrock to explain the concept of the Holy Trinity to unbelievers. This is probably why shamrocks, now Ireland's national flower, are worn by the Irish on St. Patrick's Day.

There is a bus going to the Brooklyn Botanical Gardens on April 29 that we should take advantage of. It is only \$10.00. Two buses are going. The second one is half full. It is expected to fill up soon. Tickets are available at the Bera store in Berkner Hall. It departs from the Lab and the LIE early in the morning and returns at 5:00pm to the same locations.

PS The Brooklyn Bridge is a short distance away.



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

***Todd** don't think we forgot you turned the big 40 on the 12th - **Happy**
Birthday from all of your C-AD family.*





C-AD Service Awards February

40 years

John Gould

10 years

Robert Edwards

Garry Hubbard

John Stehle

Congratulations to ALL!





New York's state bird is well represented year-round at BNL

Fun Time

[Quiz for St. Patrick's Day](#) (click on Quiz)



**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.

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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

Thomas B. Kirk, Interim 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



Retirement Party
for
Brenda Kirk & Tom Kirk

Monday, March 27, 2006

5:30-7:00 pm

Berkner Hall Lobby

Reception

\$21.00 pp includes gift

Cash Bar

RSVP by March 20th to

Elaine Zukowski, x3830 (zukowski@bnl.gov)

Lorraine Barry, x7814 (lbarry@bnl.gov)

Jackie Mooney, x3717 (mooney@bnl.gov)

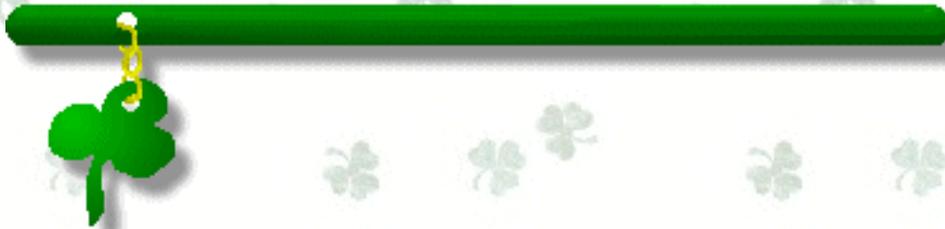
There will also be a Scientific Symposium

“Physics of the Kirk Era”

Monday, March 27, 2006

1:00-5:00 pm

Physics Department Large Conference Room



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

Ed and Mary Ann Gill in sunny Florida say Hello to All. Here is a picture of their last vacation in the Outer Banks with 15 grandkids. All is going well with them. There is Life after BNL.



You can catch up on all of [Eric Forsyth's](#) travels by clicking on his sailing yacht below



March 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
				<p>Brookhaven Women in Science and Diversity Office present "Kate's Pants - One Woman Play on Women in</p>	<p>AP Seminar "Maps for Electron (and Ion) Clouds", S. Peggs for U. Iriso, 4pm, Bldg. 911B LCR</p>	

				American History", noon, Berkner Hall		
5	6	7	8	9	10	11
			AP Seminar "Advancing Superconducting RF Technology - A Study in Perseverance", B. Rusnak, LLNL, 1:30pm, Bldg. 911B LCR and "Tune Tracker Results and Plans at the Tevatron", C.Y. Tan, FNAL, 4pm, Bldg. 911B LCR	Dr. Simons Visit		
12	13	14	15	16	17	18
	"Tax Assistance for Visiting Foreign Nationals Workshop", M. Israel, Noon, Berkner, Rm B		413 th Brookhaven Lecture "The Quest for High Luminosity in Hadron Colliders" W. Fischer, C-AD, 4pm, Berkner Auditorium			Railroad Earth in Concert, at 8pm in Berkner Hall
19	20	21	22	23	24	25
			Pianist Jiaylin Shen to give a Concert, at noon in Berkner Hall		AP Seminar "Report from the 4th International Workshop on Mass Origins and Supersymmetry Physics", K. Brown, 4pm, Bldg. 911B LCR	Progressive Rock Band Afterlife in Concert, at 8pm in Berkner Hall

26	27	28	29	30	31
<p>Retirement Party for Brenda & Tom Kirk, 5:30- 7pm, Berkner Hall Lobby</p>					



April 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2 Daylight Savings Time Begins	3	4	5	6	7	8 Ringling Bros. & Barnum Bailey Circus, Madison Square Garden
9 Palm Sunday	10	11	12	13 Passover	14 Good Friday	15
16 	17	18	19 414 th Brookhaven Lecture "Of Boys and Girls and Bumps on the Head", A. Biegon, Medical Dept., 4pm, Berkner Hall	20	21	22

23	24	25	26	27	28	29
			Administrative Professionals Day			
30						



We Remember
Sept. 11, 2001

Editor: Pamela Manning x4072