

Particle Post June 2007

"Life is a pure flame, and we live by an invisible sun within us"

~Thomas Browne

To review previous issues

A Note From Our Chairman



The RHIC Retreat on July 16-17 will have machine availability as one of its foci. The run this year has a binary character to it. Either we have many stores back-to-back or we have stores separated by large time intervals due to equipment failures or operations inefficiencies. There is a lot to be discussed and then worked on. Despite the difficulties, we are close to the maximum estimated delivered luminosity for Run 7. It is clear that we have the potential to do even better. Stochastic cooling is a great success. We are now a factor of 5 away from our enhanced luminosity goal proposed with electron cooling of ions.

C-AD proved once again that it was worthy of ISO 14001 and OHSAS 18001 recertification. Congratulations for getting through the audit with no identified deficiencies and a commendable practice.

The DOE Inspector Generals Office will be at BNL in early June to look at cyber security. Remember the rules to have screen savers that timeout after 15-30 minutes of non-use, passwords, lock your offices when leaving and do NOT access adult material websites.

June 14 is our Barbeque. Don't forget to buy a ticket and be in the running for some great prizes and of course great food.

Administration



Despite the uncertain start to FY 2007, the Department's financial health is excellent. RHIC, NSRL, BLIP and Tandem are operating and adequately funded. Candidates for vacancies created by the FY 2006 Reduction in Force are being actively recruited and electricians and cable pullers are being brought on to support maintenance activities over the summer shutdown. Selective purchasing of spares has been authorized and the first \$1M of a long-term commitment to upgrade the AGS infrastructure has been allocated. Nuclear Physics R&D funding for the Energy Recovery Linac continues and additional funding provided by the Office of Naval Research and the Stony Brook Foundation has enabled us to accelerate progress on this very important foundation for the future.

The Business Systems Division is preparing for major system upgrades to both PeopleSoft HR and PeopleSoft Financials. The HR system upgrade is scheduled for June 7th through the 10th. Beginning Thursday night at 6PM and through the duration of the upgrade, the system, including all Employee Self Service functions will be unavailable. Please note that the Employee Self Service functions include the Time Entry module. **Thus, on Friday, June 8th, you will not be able to access your time card.** Full restoration of system functionality is anticipated for Monday, June 11th.

The upgrade of PeopleSoft Financials is scheduled to begin at 6PM on Tuesday, July 3rd and will extend through Sunday, July 8th. PeopleSoft financials encompasses all accounting and budget functions, procurement and property management, work order entry and maintenance, as well as travel. **Thus, on Thursday, July 5th and Friday, July 6th, WEB Requisitions, Plant Engineering Work Orders and Travel Authorizations and Vouchers cannot be entered or processed.** The month end financial reports for June may also be delayed. Full restoration of financial system functionality is anticipated for Monday, July 9th.

Machine Update



The gold-gold RHIC Run-7 is continuing, and will be over June 26, while NSRL and the development for polarized protons in the injectors will continue until June 29. Although the RHIC run is not over yet, a preliminary assessment is that it is a very successful run but not without challenges.

The figure above shows the integrated luminosity delivered to the experiments and it is clear that the overall performance of the collider is very close to the predicted maximum possible for this year of operation. The main challenge so far has been machine availability and time at store, determined primarily by system failures. Analysis and possible remedies to that are in progress and will be revisited at the time of the RHIC Retreat. Operations of NSRL and BLIP continue successfully in parallel with RHIC. The present focus of the development with polarized protons, performed when RHIC is at store, is to test a configuration with both AGS vertical and horizontal tunes higher that holds the promise of higher polarization. In parallel with running operation of the programs we have already started preparation for the summer shutdown and the RHIC Retreat, the latter planned for June 16-17 with closeouts at BNL on June 20.



Safety Stats

Fiscal Year 2007

DOE Recordable and Days Away, Restricted, or Transferred (DART) Cases with Lost/Restricted Days for BNL

Date	Description	DOE-Recordable*	DART*	# Days Lost / Restricted
5/3/07	An employee was grinding metal and noticed an irritation in his right eye. He required medical treatment.	X		
5/1/07	An employee caught his hand between a falling wall and another wall, resulting in a soft tissue injury to the left hand. He was out for 3 days.	X	X	3/0
4/29/07	An employee was running when he felt a pull in his right heel and arch. He required medical treatment and has lost time from work. The employee is still out as of 5/29/07.	X	X	28/0
4/25/07	An employee was descending a ladder when he slipped on the third rung from the bottom. His right leg got caught in the ladder as he fell resulting in torn ligaments and cartilage. He required medical treatment and lost time from work. The employee is still out as of 5/29/07.	X	X	33/0
4/17/07	An employee was removing a pipe section when he felt something go into his right eye. He required medical treatment to remove metal particles from both eyes. He was wearing safety glasses with side shields.	X		
4/15/07	An employee dropped weights on his foot in the course of performing required exercises, resulting in a fracture. The employee did not lose time but was placed on restricted duty.	X	X	0/31
4/10/07	An employee has pain in his lower back after doing heavy lifting. The employee received medical treatment and lost time from work.	X	X	9/0
4/4/07	An employee was unloading 2" steel pipe from a truck when he felt a pull in his lower back. The injury required days away from work.	X	X	8/0
4/3/07	An employee working on a duct was bent over for 4 hours. The employee's back began to hurt and the pain progressed over the next day. The employee was diagnosed with herniated and bulging discs and lost time from work. The employee is on restricted duty until 6/6/07.	X	X	23/40
3/30/07	While climbing stairs, an employee twisted to reach for a phone and pulled his upper back. The employee required medical treatment and lost time from work.	X	X	34/0
3/10/07	An employee was working with a wrench when it slipped and hit his front tooth. The tooth was loosened and required an implant, making this case recordable.	X		

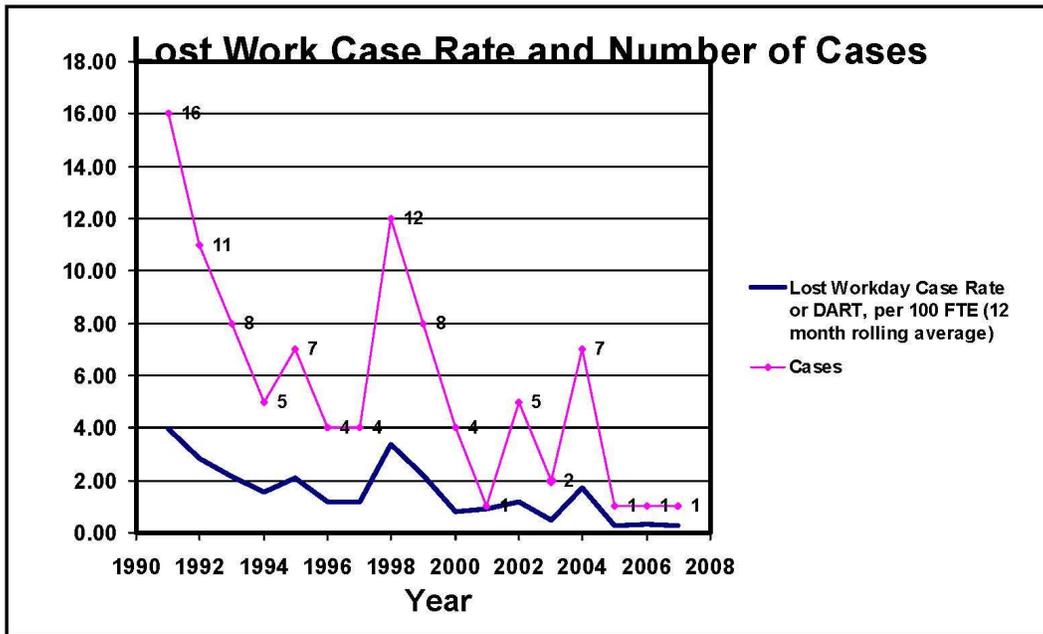
3/9/07	An employee injured her lower back while attempting to step into a truck. She was transported to the emergency room, received prescription medication and lost time from work.	X	X	4/7
3/1/07	An engineer using a screwdriver slipped and lacerated his thumb. The laceration required two sutures making this case recordable.	X		
2/28/07	An employee was coming down a ladder when he lost his balance and fell to the ground, spraining his right ankle.	X	X	4/19
2/27/07	An employee carrying a 50 lb. box up a flight of stairs injured his right shoulder. He did not notify the OMC until 5/1/07 and is currently losing time. The employee returned to work on 5/29/07.	X	X	28/2
2/26/07	An employee was lifting 50-pound bags of salt and felt pain in his left shoulder and down his left arm. He went to an orthopedist on 3/1/07 who gave a cortisone shot and advised him to rest for a week.	X	X	8/0
2/23/07	An employee was prying something with a knife. The knife closed while in use and caused a laceration to the base of his pinky. The laceration needed seven sutures.	X		
2/22/07	An employee was exposed to mold in her office. She developed respiratory problems that resulted in time away from work.	X	X	2/0
2/15/07	An employee was re-latching a lift gate when the gate slipped and hit him in the ribs. X-rays determined that his rib was broken. He stayed home for 2 days because of the pain.	X	X	2/0
1/22/07	An employee needed to remove a box in the middle of a stack of boxes. As he removed that middle box, the heavy boxes on top fell onto his thumb, tearing a ligament. He required surgery, making this case recordable and DART.	X	X	3/28
1/10/07	An employee was moving furniture and boxes. He experienced muscle strain in the left forearm, which did not improve. He went to the clinic and was put on restricted duty.	X	X	0/3
12/18/06	An employee in pursuit of trespassers injured his left knee while exiting the vehicle. After seeing an orthopedist, he returned to work on restrictions.	X	X	22/50
12/18/06	An employee was injured while opening a door using a key, which was mounted on a key hook. The hook punctured her index finger and prescription medicine was given.	X		

11/27/06	An employee lacerated his finger while cleaning out a trash can in his office. Prescription medication was required making this case recordable.	X		
10/27/06	An employee has an irritation in his left eye from a foreign body. Medical treatment was required making this case recordable. The employee was wearing safety glasses.	X		
10/10/06	An employee received a laceration to his forehead and scalp when a bookshelf fell on his head. The laceration required stitches making this case recordable. The injury caused the employee to lose time from work making this case a DART.	X	X	10/0
10/5/06	An employee was bitten multiple times on his face and head by insects while doing work.	X		
	Year-to-date total**	27	18	221/180

*A DOE Recordable case is an occupational injury or illness that requires more medical treatment than simple first aid and so must be reported to DOE as per the Performance Evaluation Measurement Plan (PEMP). FY07 goal for DOE Recordable cases is no more than 16 cases.

A DART case is a subset of DOE Recordable cases, whereby the injury or illness is severe enough that an individual loses time away from their job by being away from work, by being on restricted duty, or by being transferred to another job function. FY07 goal for DART cases is no more than 6 cases.

As of 5/1/07



C-AD Occupational Injury Statistics

	For Year* 2006	For Year* 2007
First Aid Cases	1	0
Recordable Cases	5	0
Lost Work Cases	1	0

* Calendar Year

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

NEXT EXCHANGE: Friday, JULY 6, 2007

Pete Cirnigliaro



Arrivals

Suresh Deonarine joined the department on May 7 working with Nikolaos Laloudakis in the RF Group.

Jeremy Jacobsen joined the department on May 7 working with Peter Ingrassia in the Main Control Room.

David Maffei joined the department on June 4 working with Peter Ingrassia in the Main Control Room.

Gavin McIntyre has rejoined us for the summer as a Co-Op Engineer working with Steve Bellavia in the Mechanical Systems Group.

Eric Mis has rejoined us for the summer as a Co-Op Engineer working with George Mahler in the Mechanical Systems Group.

Joel Morales has rejoined us for the summer as a GEM Fellow working with John Morris in the Controls Division.

WELCOME!!

Departures

Carl Anderson, Machine Operations Group, will be leaving on Friday, June 29.

GOOD LUCK!!

Transfer

William Licciardi will be transferring from the Physics Department for the period of June 1 to November 30. William will be working with Ilan Ben-Zvi in the E-Cooling Group.

WELCOME!!





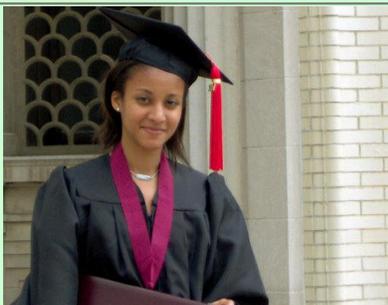
Robin Nicholas Ahrens, son of Leif Ahrens (Accelerator Physics, Injectors), will be receiving his B.A. in "Health and Society" from Rochester University this spring.



Michelle Atkins, daughter of Donna and Ray Atkins (Instrumentation & Beam Components), graduated on May 3, 2007 with her Masters in Education from Winthrop University's Counseling & Development Program in Rock Hill, SC. She was also a member of the Chi Delta Epsilon, Winthrop University chapter of Chi Sigma Iota, International Counseling Honor Society. Michelle resides in Charlotte, NC. She is a 1997 graduate of Riverhead High School and 2001 graduate of Radford University in Virginia.



Tara Castillo, daughter of Vincent Castillo (Access Controls), graduated with her Jurist Doctor (JD) from American University Washington College of Law (WCL). She will do her NY Bar and work in the DC area.



Jerri Castillo, daughter of Vincent Castillo (Access Controls), graduated with her Bachelor in Fine Arts (BFA) from Carnegie Mellon University. She will go on to Graduate School.



Sarah Hatton, granddaughter of Dolores Collins (Chairman's Office), daughter of Diane Hatton (LSII), attends Southampton High School and will be graduating in June as the valedictorian of the 2007 senior class. She plans to attend Boston College in the fall and will major in either Biology or English. Sarah enjoys soccer and softball, playing on the school's varsity teams and is a member of the school orchestra - playing the violin and the viola. One of the winners of the 2007 BSA Scholarship.



Lara Hershcovitch, daughter of Ady Hershcovitch (Preinjector Systems), is graduating MIT with a Bachelor of Science degree in Brain and Cognitive Science. In August, Lara will start MD training at Vanderbilt University School of Medicine.



Yishu Huang, daughter of Haixin Huang (Accelerator Physics, Injectors), is graduating from Ward Melville High School this summer. She will be attending Columbia University to study economics.



Elizabeth Hubbard, daughter of Garry (Beam & Experiment Services Group) and Barbara (PET) Hubbard attends Westhampton Beach High School. She will major in elementary education at the University of New Hampshire. One of the winners of the 2007 BSA Scholarship.



Alissa Lamberti, daughter of Ann (Administration Group) and Peter Lamberti, is a senior at St. Dominic's College Preparatory High School in Oyster Bay. She is a member of the National Honor Society, the NY State Science Honor Society and the Tri-M Music Honor Society. She has attained First Honors every quarter. Alissa is the winner of the National League of American Penwoman Poetry Contest 2006 and is also a member of the St. Dominic's Concert Chorus and Drama Club. Alissa will attend Wheaton College in the fall and plans on majoring in Creative Writing and English.



Michelle Louie, daughter of Wing Louie (Electrical Systems, Magnet Protection), graduated from The George Washington University with summa cum laude honors. Michelle earned a Bachelors of Science degree in Biology and a minor in Psychology. Michelle will be attending the The George Washington School of Medicine in Fall 2007 for a doctor of Medicine degree.



Thomas Russo, son of Thomas Russo (Instrumentation & Beam Components), will graduate from Eastport South Manor School on June 23, 2007. He will attend State University at Binghamton studying Biology.

CONGRATULATIONS



Did You Know?

Lynanne DiFilippo (ESSHQ Division), husband Armand and son Marc welcome their new edition Christopher to the family. Here are a few pictures.



the following submitted by Paul Sparrow

On your cell phone if you dial 411 there is a \$2.00 + charge on your bill for directory assistance. Dial 1-800 FREE 411(no spaces) and you only pay a per minute charge, no extra fee.

Its 'NOT FREE'... you have to listen to commercials (the people who pay for this to be offered to you). This uses up your minutes to your bill, and takes your time.

From the Rochester University website.

Ernest Courant

National Academy of Sciences

Rochester Distinguished Scholar Medal

The Rochester Distinguished Scholar Medal is awarded to doctoral graduates who have gone on to distinguished careers in academia, industry, or government. Courant earned his degree in physics from the University in 1943, and his work on charged particle acceleration — including his role inventing alternating gradient focusing — paved the way for the development of high-energy accelerators, which allow scientists to investigate the fundamental structure of matter.



Ernest Courant (UR Physics PhD 1943), Father of Modern Particle Accelerators, to receive the 2007 University of Rochester distinguished scholar award.

Ernest Courant (UR Physics PhD 1943), emeritus distinguished scientist at Brookhaven National Laboratory and Adjunct Professor at the University of Michigan will receive the 2007 University of Rochester distinguished scholar award. His award recognizes graduate alumni who have gone on to distinguished careers in academia, industry, government, the arts, etc. An individual is eligible if he or she has a Ph.D. from the University. The Provost makes the final decision for this award, which is presented at the University doctoral commencement ceremony. Courant is the fifth alumnus of the Department of Physics and Astronomy to receive a distinguished scholar award, as shown in the Table below (in addition also shown are two Physics and Astronomy alumni who received the University of Rochester Hutchison medal). Ernest Courant has won many academic honors for his work, including the 1986 Enrico Fermi Award from the Department of Energy: "For his many contributions, for over three decades, to the physics of acceleration of charged particles; including his role in the invention of alternating gradient focusing which is the essential mechanism of strong focusing now used in accelerators of the highest energies; and for his many studies of beam interactions and instabilities that have been of critical importance in accelerator design" Courant was also awarded the First Annual Robert R. Wilson Prize of the American Physical Society in 1987, and the Boris Pregel Prize of the New York Academy of Sciences in 1979. He is also a Member of the [US National Academy of Sciences](#), NY (since 1976).

Courant was born in Germany in 1920 and came with his family to the United States in 1934. Courant's father was the famous mathematician Richard Courant. Courant became a naturalized US citizen in 1940. He graduated with a BA at Swarthmore College in 1940 and gained an MS in 1942 at The University of Rochester and a Ph.D in 1943 at the same university under the supervision of Victor Weisskopf. It was Weisskopf who advised Courant to join the Montreal project under his friend George Placzek. Courant spent 3 years, 1943-1946, working with Placzek, Volkoff and Wallace. It is worth noting that the paper on neutron density fluctuations in piles co-authored with P.R. Wallace, is a classic and continues to be quoted to this day. After the war, Courant went to Cornell as a "post-doc" working with Hans Bethe in nuclear physics and in 1948 he joined the newly created Brookhaven National Laboratory to work on the beam dynamics of the Cosmotron (the world's first GeV accelerator). As a result of his work, Courant became one of the trio which originated the idea of "[strong focusing](#)" accelerators leading to the Brookhaven AGS, the CERN PS and just about all the big accelerators since. He retired in 1990 but still consults at Brookhaven



where he holds the position of [Emeritus Distinguished Scientist](#). He was adjunct professor at [SUNY Stony Brook](#) (1966-1986), and currently holds the position of adjunct professor at the [University of Michigan](#).



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



C-AD Service Award May

40 years



Paul Sparrow

Congratulations!



Reminders:



BAR-B-Q

WHEN: Thursday, June 14, 2007
12 Noon - RAIN OR SHINE

WHERE: BNL Gazebo

MENU

- I-Hung's Salmon*
- Stacey's Chicken*
- Mike's Roasted Pork*
- Rich's Burgers*
- Dick's Hot Dogs*
- Veggie Burgers*
- Salads, Chips, Cakes,*
- Mellon*
- Italian Ice*
- And Much More!*

**All C-AD Employees (past and present),
Friends and Families, all welcome!**

BNL Gate Access Required (ID Cards)

Bring Your Own Lawn Chair

\$8.00 per person (advance sales)

\$10.00 at the door

No Refunds!

Door Prizes, Lots of Food, Fun, Music By Request

Come and Join Us!

TICKET SALES:

John Benante X2745
 Tracy Blydenburgh X4422
 Rippie Bowman X4672
 Rich Conte X5741
 Lynanne DiFilippo X7918

Frank Dusek X2022
 Marion Heimerle X4619
 Mike Jacobellis 7861
 Stacey Kuczewski X4853

Pamela Manning X4072
 Bob Marascia 929-4753
 John Nicoellis X4631
 Anna Petway X4776

Ann Pham X4547
 Rich Savage X4640
 Paul Sparrow X4689
 Ray Zaharatos X7205

Some photos taken by James Osterlund



Another summer resident checks in! Ruby-throated Hummingbird by BNL Biology Fields.



And another! Red-breasted Nuthatch by BNL BERA Field



And yet another, somewhat less common. Orchard Oriole by BNL Biology Fields.

[BIG BERA Update! May 18, 2007](#)

~BNL BLOOD DRIVE ON JUNE 19 & 20 WITH PRIZES!!!!

~Sign up for the **ORGANIC Vegetable** delivery on site by the *Green Thumb!* June- November. For information, call Ruth Ext. 3545.

~ **PLANT SWAP** In Berkner Parking lot Tues 6/5/07 12 noon ~

~NOTE: There will NOT be a BNL Farmer's Market this year~.

~Just a few tickets remain for **NASCAR Sunday, June 3, 2007 at Dover, Delaware. \$110pp and includes round trip coach bus transportation as well as snacks on the bus. The bus will leave Brookhaven Center at 5:00am and return to BNL at approximately 11:00pm.**

~ **Captain Bob's Charter, Mattituck FISHING AT IT'S BEST!**

Saturday, June 9, 2007 Be at the dock by 7:45am, boat returning at 3:00pm. \$50pp. Directions: LIE to the end (exit 73). Take Route 58 through Riverhead until you reach County Road 43 (Northville Tpk) and make a left. Head north to the end and make a right on Sound Ave. As it opens to four lanes make a left on Coxneck Road. Drive 2 miles to the end of road to Captain Bob's Fishing Fleet. 631-298-5522.

www.captbobfishingfleet.com/boats1.cfm

NYC Bus trip

NYC Bus trip

Sunday, June 10, 2007 Do as you please trip! Drop off is in the Bryant Park area of Midtown. \$10pp and the bus will leave Brookhaven Center at 9:00am and will depart NYC at 6:00pm. Only 55 seats available!

Atlantic City

Saturday, June 23, 2007

We will be departing from Brookhaven Center at 8:00am sharp!!! in a luxury coach bus to **Hilton Hotel and Casino** and leave Atlantic City at 7:00pm. You must be 21 & over to participate.

BJ's Membership Drive

Coming to Berkner Lobby on **Wednesday, June 6th** between 10:00am and 2:00pm. Normally \$45 for 12 months, now \$32.59 for 13 months and can be added onto existing memberships. Questions? call Chuck at 790-7242.

COSTCO Membership Drive

COSTCO rep will be at Berkner Lobby on **Thursday, June 14th** between 10:00am and 2:00pm. \$54.31 per year. Giveaways!

BOOK FAIR in Berkner on June 13 & 14!

Advanced reservations are required and can be made at the BERA Store Monday thru Friday from 9am-3:00pm. All tickets are non-refundable.

~Dorney Park July 13 Friday - 2 busses \$30 PP <http://www.dorneypark.com/>

~King Tut Exhibit ~not to be missed! Franklin Institute in Philadelphia, Pa. July 28.
http://www2.fi.edu/tut/exhibit_info.html \$38 PP w/ Luxury bus & entry.

~US Open Tennis at Forest Hills Tuesday 9/4 (Lab Holiday) \$54PP ticket/bus

~LI DUCKS tickets are available all season! \$10 BEST family day or evening!

Upcoming Trips: August: Coney Island & Brooklyn Cyclones, Light House Tour & Dinner Cruise, Yankees. September: Tony Bennett, Drowsy Chaperone, Army Football, Cabelas, NASCAR.

October: Bear Mtn, Renoir in Pa. November:

Legally Blonde, Reading shopping trip, Cirque du Soleil and MORE!

SAVE MONEY:

BERA website discounts at www.bnl.gov/bera

www.Perkscard.com Card code:BNL6

BJ's Membership Drive June 6

Costco Membership Drive June 14

BOOK FAIR June 13 & 14

The New ASAP Lounge is open for Students & Post docs on Bell Ave.

<http://www.bnl.gov/asap/>



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.



June 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
	<p>C-AD AP Seminar "MINHA: Model of an Intense Nonscaling Hadron Accelerator" Salime Max Boucher, Radia Beam Technologies,</p>		<p>The EPA and BERA "The Invisible Wounds of War", Lawrence Brown, Babylon Vet Center of US Veterans Administration, 12-1pm, Berkner Room B</p>			

	4pm, Bldg. 911B LCR					
10	11	12	13	14	15	16
				 Flag Day C-AD BBQ, Noon Gazebo		
17	18	19	20	21	22	23
Father's Day	2007 RHIC & AGS Annual Users' Meeting Workshop 1 "Longitudinal polarization results at RHIC and RHIC-II"	2007 RHIC & AGS Annual Users' Meeting Workshop 2 "Bulk and medium properties in heavy ion collisions at RHIC and RHIC-II" Workshop 3 "Transverse polarization results at RHIC and RHIC-II" Workshop 4 "Energy loss in heavy ion collisions at RHIC and RHIC-II" BNL Blood Drive	2007 RHIC & AGS Annual Users' Meeting Workshop 5 "The future of RHIC spin and the physics of eRHIC" Workshop 6 "Heavy Flavor and Quarkonia Production" Workshop 7 "Non-RHIC related physics at BNL" Workshop 8 "Outreach Workshop" BNL Blood Drive	Summer Begins 2007 RHIC & AGS Annual Users' Meeting Plenary Session Day 1 2007 RHIC & AGS Annual Users' Meeting Open Forum	2007 RHIC & AGS Annual Users' Meeting Plenary Session Day 2	
24	25	26	27	28	29	30
		Physics Colloquium "Cold Dark Matter's Small Scale Crisis", George Lake, U. of Zurich, 3:30pm, Bldg. 510	426 th Brookhaven Lecture "The Pesky Neutrino", David Jaffee, PO, 4pm, Berkner	Particle Physics Seminar "Measurement of the Single Charged Pion Production Cross Section in Charged-Current Neutrino-		

29	30	31 Physics Colloquium "Gamma Ray Telescopes", David Kieda, U. of Utah, 3:30pm, Bldg. 510				
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We Remember
Sept. 11, 2001

Editor: Pamela Manning x4072