

Particle Post September 2010

"The beautiful thing about learning is nobody can take it away from you."

~B.B. King

Previous issues

Note from the Chair



While most of the accelerators at C-AD were shut down for maintenance and upgrades over the summer months Jim Alessi et al were busy commissioning the new EBIS pre-injector. After a hectic time the team was successful in reaching all the CD-4 performance requirements and the project passed the final CD-4 review on Thursday, September 3, on schedule and below budget. Congratulation to EBIS project team!

On October 1 the F&O team of the newly created "North Complex", which consists mainly of the C-AD buildings, will take over the responsibility for all "brick and mortar" assets. The team will be led by Leo Somma, the Complex Facility Manager for the North Complex, and includes also four new Complex

Project Managers who each have the responsibility for one quarter of the complex. During September the F&O team will walk-down all buildings with the present building managers to aid with the transfer of responsibilities. I encourage everybody to work with the new F&O team to make this a smooth transition and to help the new team to take on this new large responsibility.

Administration



FY2010 will soon close and we have been successful, once again, in maintaining a budget reserve that will enable us to begin operations on December 1st with or without an Energy and Water Bill. Beyond that, we know only two things about the FY 2011 budget: (1) that we will not receive the FY 2011 Presidential Budget which provided funds for 28 weeks of cryo operations and an inflationary increase in M&S funds, and (2) the budget provided will not support procurement activity at the levels experienced in FY 2010.

Thus, with a Continuing Resolution likely and reduced funding for procurements a near certainty, it is time to limit purchases for RHIC operations to only what is necessary to support ongoing upgrades and ensure a December 1st start to the cool down.

The NSRL program is not hindered by the same uncertainty. Our contract with NASA to support NSRL was recently extended through May 31, 2011 and funding is already in place to support the program through March. Additional funding has also been provided for a laser ion source proof-of-principle experiment.

Operations by Paul Sampson

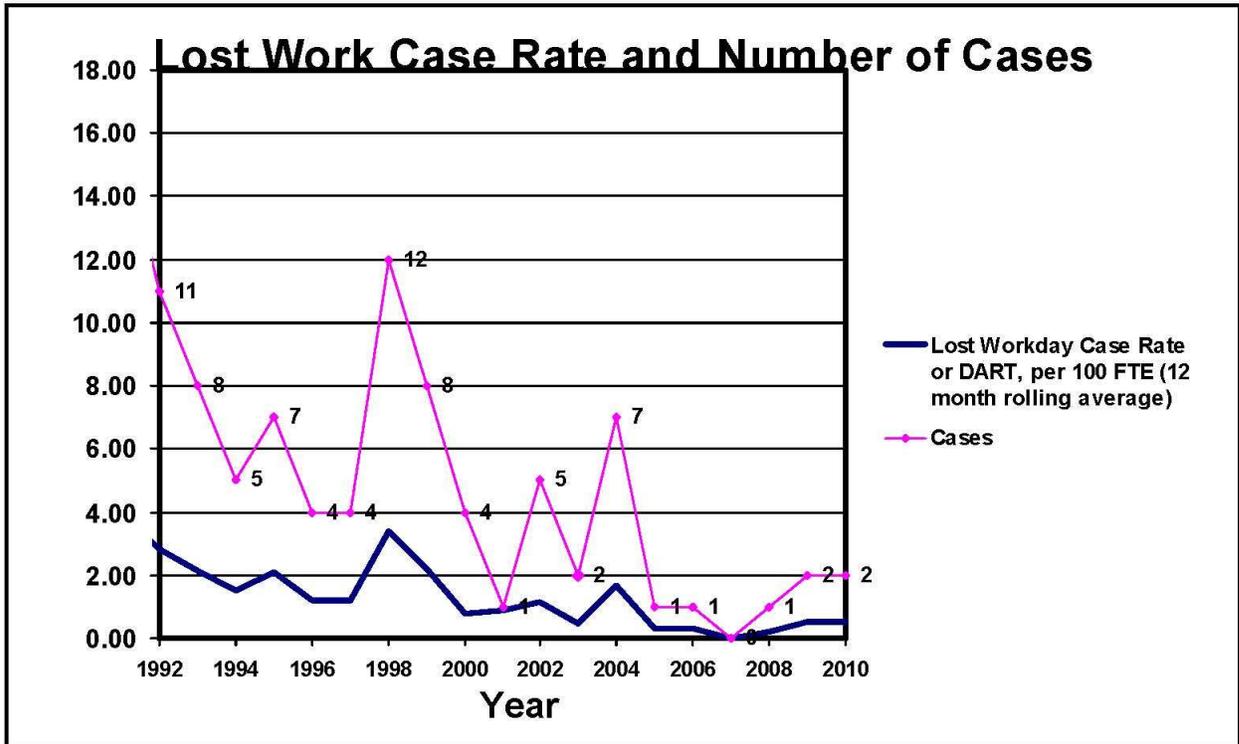
The CAD complex will continue with the aggressive shutdown schedule. With EBIS CD4 parameters being met last month, shutdown, maintenance and installation work at LINAC, EBIS and associated systems is in full swing. All major works at RHIC are also progressing well. Installation of the repaired snake magnet in the RHIC yellow ring at 9 o'clock has been completed. Final tests will commence with the start of pre-cool down, later this month. Removal of legacy equipment at the 10 o'clock of equipment and bake out in the 10 o'clock IR is complete. RHIC RF systems work is progressing well. The final installation of components for the 9 MHz System is expected soon. Initial test preparation is presently underway for both the 9 and 28MHz systems (Access to the 4 o'clock RF area during the 28MHz tests is prohibited). Progress also continues for all other works including, RHIC spin flipper installation, and Stochastic Cooling System upgrades. Work in the AGS continues, with major efforts focusing on upgrades to the C15 polarimeter, RF modifications, survey, fire systems upgrade, sextupole upgrades and the A20 cold snake.

Booster F6 has been replaced baked out tested and is operational, as are the F3 and injection bumps for the Booster. Major effort in the Booster remains remediation of damage caused by the pressure wave introduced by last month's failure.

Preparation for the NSRL run, which starts October 4th is underway- Booster access will become more limited towards the end of the month.

For updates on shutdown progress see: [Shutdown Progress](#)

Safety Stats



C-AD Occupational Injury Statistics

For Year* 2009 For Year* 2010

	FOR Year 2009	FOR Year 2010
First Aid Cases	5	3
Recordable Cases	2	2
Lost Work Cases	2	1

	FOR Year 2009	FOR Year 2010
First Aid Cases	5	3
Recordable Cases	2	2
Lost Work Cases	2	1

* Calendar Year

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

EXCHANGE DATE: FRIDAY, OCTOBER 1, 2010

Pete Cirnigliario



Arrivals

Yuenian Huang joined the department on August 30. He is working with Roberto Than in the Cryogenic Systems Group.

Ming Ke joined the department on August 16. She is working with Frank Karl in the Survey Group.

Matthew Menga rejoined the department on September 7. He is working with Peter Ingrassia in the Main Control Room.

WELCOME!

Transfers

Robert Meier, transferred back to C-AD from LSII on September 7. Bob is working with Tony Arno in the Design and Documentation Group.

Craig Rhein, Instrumentation Systems Group transferred to LSII effective September 15.

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



C-AD Service Awards August

30 years	John Benante
20 years	Jonathan Laster

Congratulations!



Did You Know

September 15th began Hispanic Heritage Month.

The National theme for 2010 is "Heritage, Diversity, Integrity, and Honor: The Renewed Hope of America". From the National Hispanic Heritage Month website: "Each year, Americans observe National Hispanic Heritage Month from September 15 to October 15, by celebrating the histories, cultures and contributions of American citizens whose ancestors came from Spain, Mexico, the Caribbean and Central and South America."

The observation started in 1968 as Hispanic Heritage Week under President Lyndon Johnson and was extended by President Ronald Reagan in 1988 to cover a 30-day period starting on September 15 and ending on October 15. It was enacted into law on August 17, 1988, on the approval of Public Law 100-042.

The day of September 15 is significant because it is the anniversary of independence for Latin American countries Costa Rica, El Salvador, Guatemala, Honduras and Nicaragua. In addition, Mexico and Chile celebrate their independence days on September 16 and September 18, respectively. Also, Columbus Day or Dia de la Raza, which is October 12, falls within this day period"

From: Heimerle, Marion V
Sent: Thursday, September 16, 2010 10:34 AM
To: CAD Personnel List
Subject: ** Parking Lot Paving - Building 911 **
Importance: High

The north east parking lot adjacent to building 923 is scheduled to be repaved next week. The dirt road which runs east from the lot toward building 817 is being cleaned up to be used as temporary parking in the interim. There are some extra parking spaces in the lots for buildings 801 and 815 on Rutherford Drive but not enough to handle all the cars that will be displaced. There are some spots available in the lot at building 905. Pedestrian access to the front of building 923 will be maintained and the grass behind 923 is being cut to provide access through 922; but, 922 is a

controlled area so a film badge is necessary.

NOTE:

The entire length of Lawrence Drive, which passes in front of 911 will remain a no parking area because it provides access for emergency vehicles to the 911/912 complex.

Parking in the high grass across from 925 is not permitted; it is an environmental recovery area and is infested with ticks.

Since lots will be overcrowded please pay attention that you do not block other vehicles, roadways, or walkways when parking.

Parking in the lower southwest lot of 911 will be restricted to laboratory vehicles, handicapped parking, and motorcycles only.

Parking in the short term spot in front of 911 is for 30 minutes or less.

Remember to bring comfortable shoes, walk carefully in the temporary lots because the surfaces are uneven, and keep an umbrella in your car next week.

-----Original Message-----

From: Lambertson, Thomas W

Subject: Paving

Weather permitting we will be recycling and repaving the "911" parking lot located off of Lawrence Drive and in front of building 923 beginning on Monday, September 20, 2010. There will be no parking allowed in that lot for the duration of the project. We will re-stripe the lot immediately following the paving.

Please have folks arrange to carpool or park in other locations. We apologize for the inconvenience this will cause in the short term.

Thank you,

Tom

Thomas W. Lambertson

Manager Site Services Division

Brookhaven National Laboratory

See who we are and what we do: www.bnl.gov

Bldg 326

631-344-3352

631-335-6207 (cell)

Here are photos from the Summer Sunday on August 8 taken by Chaofeng Mi.





Paul Callegari, Water Systems Group, is proud to announce the birth of his granddaughter Julia Lynn, born September 4 at 12:17am weighing in at 7 lb 6 oz, 20.5" long. Paul and Dotty are so happy with their new granddaughter as is their daughter Diana and her husband Don equally proud of their new daughter. Notice one picture has 2 grandmas and a great-grandmother. Lucky child.





Congratulations!!



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.

From: Carter, Christine B
Subject: BERA UPDATE! September 2010

Please note that the GYM & POOL will once again be open on Saturdays from 10am-2pm!

The full schedule is here: http://www.bnl.gov/bera/linkable_files/2010Sept-Dec.pdf & http://www.bnl.gov/bera/linkable_files/GymSchedule2-1-10.pdf

***SPRINT** will be at 488 lobby on 9/15 from 11am-2pm offering BNL Discount plans. Danielle at 917-217-9557

***T Mobile** will be at 488 lobby on 9/22 from 11am-2pm offering BNL Discount plans. Nancy at 516 849-1226

EVENTS & TRIPS! Reservations and payment are necessary and can be done at the BERA Store in Berkner

(Monday - Friday, 9:00am to 3:00pm). No reservations without payment and all tickets are non-refundable

Saturday, Sept. 25, 2010

The coach bus will leave from Brookhaven Center at 9am and leave the Zoo at 5pm. ALL seats (adult or child) are \$23 per person and include the bus, Total Experience ticket and the newest attraction, the "4D Theatre". Children age 2 and under that sit on an adult's lap would be free. NO unaccompanied people under 21 years of age. A second bus has been added for this trip. Reservations and payment are necessary and can be done at the BERA Store in Berkner (Monday - Friday, 9:00am to 3:00pm). No reservations without payment and all tickets are non-refundable.

Sunday, Sept. 26, 2010

SOLD OUT

NASCAR, Dover, DE. 40 tickets are available, so sign up now! The coach bus will leave Brookhaven Center at 5am and leave Dover at 6pm. Ticket price is \$110 per person and includes tailgate snacks, bus (+ tip) and ticket. [Seating map](#) - Seats are Section 217, Rows 27-29. Reservations and payment are necessary and can be done at the BERA Store in Berkner (Monday - Friday, 9:00am to 3:00pm). No reservations without payment and all tickets are non-refundable.

Saturday, Oct. 2, 2010

[BIG E State Fair](#), Springfield, Mass! Don't miss this exciting day trip! All seats (adult or child) are \$25 per person. Children age 2 and under that sit on an adult's lap would be free. The bus will leave Brookhaven Center at 6am and will leave the Big E at 5:30pm. There will not be a pick up at LIE exit 63, we will use the Port Jefferson Ferry. Cost includes coach bus, PJ Ferry and entry into the Fair. NO unaccompanied people under 21 years of age. Only 55 tickets available. Reservations and payment are necessary and can be done at the BERA Store in Berkner (Monday - Friday, 9:00am to 3:00pm). No reservations without payment and all tickets are non-refundable.

Saturday, October 9, 2010
Atlantic City

Join BERA for this bus trip to Atlantic City, the casino on the Boardwalk and free offer back to

be announced. The bus will leave Brookhaven Center at 9am and leave Atlantic City at 8pm. Cost is \$30 per person and you must be at least 21 years of age to attend this trip. Reservations and payment are necessary and can be done at the BERA Store in Berkner (Monday - Friday, 9:00am to 3:00pm). No reservations without payment and all tickets are non-refundable.

Sunday, October 24, 2010

Join this BERA bus trip to see the World Famous Blue Man Group at the [Astor Place Theatre](#). The coach bus will leave Brookhaven Center at 10am, and the show begins at 2pm. The bus will leave at the conclusion of the show, approximately 4pm. Tickets are \$80 per person, reservations and payment are necessary and can be done at the BERA Store in Berkner (Monday - Friday, 9:00am to 3:00pm). No reservations without payment and all tickets are non-refundable.

November 5-7, 2010

ROCKING HORSE RANCH - Join BERA on this fulfilled 3-day trip to the [Rocking Horse Ranch](#) (located in the New Paltz / Poughkeepsie area). The coach bus will leave Brookhaven Center at noon on Friday and will leave the Ranch about noon on Sunday. Price for this weekend is \$375 per person and includes everything! Children between the ages of 4-15 are \$145 (3 and under are free in room w/parent). A \$150 non-refundable deposit per person is due in the BERA Store no later than September 30th. [Details...](#) Reservations and payment are necessary and can be done at the BERA Store in Berkner (Monday - Friday, 9:00am to 3:00pm). No reservations without payment and all tickets are non-refundable.

Thursday, November 11, 2010 (Lab Holiday)

CULINARY INSTITUTE OF AMERICA & the VANDERBILT MANSION - The coach bus will depart from Brookhaven Center at 8:30am and head to the Culinary Institute of America (located in Hyde Park, NY). We will lunch in the American Bounty Restaurant, browse their gift shop and wander the grounds, then go to the Vanderbilt Mansion in Hyde Park for a full tour. The bus will leave for home at approximately 4:30pm. The cost for this exciting trip is \$60 per person and includes lunch, luxury bus, tax/gratuities and the Vanderbilt tour. [Culinary Institute of America ~ Vanderbilt Mansion](#) Reservations and payment are necessary and can be done at the BERA Store in Berkner (Monday - Friday, 9:00am to 3:00pm). No reservations without payment and all tickets are non-refundable.



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.



September 2010



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6 Labor Day Lab Holiday	7 Physics Colloquium "Comprehensive Multimessenger Astronomy with Gravitational Waves", Szabolcs Marka, Columbia U., 3:30pm, Bldg. 510 Large Seminar	8	9 Rosh Hashanah	10	11 
12 Grandparent's Day	13	14 Physics Colloquium "Hadron spectroscopy from lattice QCD", Colin Morningstar, Carneige Mellon U., 3:30pm, Bldg. 510 Large Seminar BSA Distinguished Lecture "Science Education: From Kindergarten through College", Bruce Alberts, Science Magazine, 4pm, Berkner	15 BSA Distinguished Lecture "Biology Past and Biology Future: Where Have We Been and Where Are We Going", Bruce Alberts, Science Magazine, 11am, Berkner	16 Financial Planning Brown Bag Workshop, 12noon, Berkner, Rm B C-AD Seminar "Super - and normal conducting RF for Cornell ERL Injector", Dr. Sergey Belomestnykh, Cornell U., 4pm, Bldg. 911B LCR	17	18 Yom Kippur

19	20	21	22	23	24	25
	Dr. Mow Shiah Lin Scholarship 6th Annual Award Ceremony & Reception "Mechanistic Study of Amyloid Formation by Islet Amyloid Polypeptide: Implications for Type 2 Diabetes", Ping Cao, Dept. of Chemistry, SBU, 4pm, Bldg. 555 Hamilton	Blood Drive 9:30am to 3pm Center C-AD AP Seminar "Using the e- RHIC electron ring as a source of coherent hard x-rays four orders of magnitude more brilliant than currently possible", Richard Talman, Cornell U., 4pm, Bldg. 911B, LCR	461st Brookhaven Lecture Michael Herman, ES&T, 4pm, Berkner Hall	Autumn Begins 'Block Party' 11:30am- 1:30pm, Outside Berkner, "One Lab - One Team"		
26	27	28	29	30		
		Physics Colloquium "The Composite Higgs Mechanism and New LHC Physics", Julius Kuti, UC San Diego, 3:30pm, Bldg. 510 Large Seminar		15th Annual Pine Barrens Reserch Forum, "The Pine Barrens Maritime Reserve: Beyond the Trees", T. Green, 8:30am, Berkner Hall		



October 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
	Physics Colloquium "Fluidity and supercritical fluids: what we have learnt from RHIC and what to expect for LHC" Volker Koch, LBNL, 3:30pm, Bldg. 510 Large Seminar	Physics Colloquium "Nuclear Physics from Lattice QCD", Martin Savage, Washington U., 3:30pm, Bldg. 510 Large Seminar				

10	11 Columbus Day	12 Physics Colloquium "FRIB Project", Brad Sherril, Michigan State U., 3:30pm, Bldg. 510 Large Seminar	13 April Verch Band to perform, Noon, Berkner Hall	14	15 C-AD AP Seminar "An Interaction Region Design Concept for an Electron Ion Collider", Vasiliy Morozov, JLab, 4pm, Bldg. 911B, LCR	16 National Boss Day
17	18	19 Physics Colloquium "TBA", Oliver Witzel, BNL, 12Noon, Bldg. 510A, Room 2-160	20	21	22	23
24 United Nations Day	25	26	27	28	29	30
 31						



**We Remember
Sept. 11, 2001**

USS New York - A ship forged from the steel of the World Trade Center

Editor: Pamela Manning x4072