

Particle Post

October 2005

Achievement is not always success while reputed failure often is. It is honest endeavor, persistent effort to do the best possible under any and all circumstances. --O.S. Marden

A Note From Our Chairman

On September 30, Mike Butler from BHSO and EBIS Federal Project Director, presented the CD1 information to the DOE Evaluation Board. The Board subsequently approved CD1 status for the EBIS Project. Congratulations to Jim Alessi, Kerry Mirabella and the rest of the EBIS team for completing this major milestone. When Congress passes an appropriations bill (see below), this would permit us to commence engineering and design to develop the conceptual report with a final cost baseline to satisfy the CD2 milestone. Then following the CD3 milestone we would be permitted to start full construction. In parallel with DOE construction the NASA construction support has begun with the first purchase of the EBIS superconducting solenoid magnet. The goal is to start EBIS operations in FY2009.

FY2006 has begun with Congress unable to again meet its obligation to provide an appropriations bill. This has become the norm over the past 9 years. Both the House and Senate passed bills during the early summer. Both bills treated RHIC well. What did not then occur was a conference committee meeting to settle the difference between the two bills. Two hurricanes, increasing inflation, two wars and Supreme Court nominations have now diverted the attention of Congress. The initial guidance we received was to operate at the FY2005 level until November 15, when the present continuing resolution expires. We now have received some verbal guidance to assume the FY06 presidential budget, which is an 8% reduction from FY05. This guidance and the new power rate algorithm would preclude any running this year. Stay tuned for further developments. This isn't done yet.

Both NSRL and RHIC start of operations have not been altered. NSRL began on October 3 and will run for 7 weeks. The NASA funds are available to run this program. RHIC cooldown begins on December 5 and then we will run either polarized protons or gold. PHENIX and STAR plans differ significantly. This will require that Sam Aronson and the Program Advisory Committee make a difficult decision as to what to run. In addition, we still do not understand what the electrical energy rates could be this year. NYPA and BNL are still discussing the algorithms. The bottom line is that there is a lot of uncertainty this year as to how many weeks of whatever species we will be able to run.

I would like to commend everyone for keeping our perfect safety and lost workday record going. We are beyond 280 days and close to 900,000 hours of no lost work time. Keep up the great effort to stay safe.

On a personal side I would like to wish Gerry Bunce a happy and healthy 60th birthday. It was downhill at 40, but at 60 it begins to look like a black diamond trail. Gerry is an avid skier. There are some photos of the birthday in this issue of the Particle Post.



Derek Lowenstein

Administration

Happy New Fiscal Year! C-AD has successfully closed out FY 2005, on schedule, within budget. Total expenditures for the year were \$119M including \$99.8M for RHIC Operations, \$7.3M for SNS and \$3.9M for NSRL.

We begin FY 2006 without a budget and will be funded in accordance with the provisions of a Continuing Resolution (CR). The CR provides Nuclear and High Energy Physics funding through November 18, 2005 at levels equivalent to that provided in FY 2005. Funding for new initiatives, including the \$2M anticipated for EBIS design and construction activities, is on hold.

As we await the final resolution of our FY 2006 budget, there is concern, however, that the cost of disaster relief in the Gulf States could result in funding levels significantly lower than anticipated. Also of concern are recent increases and volatility in the cost of electric power.

In response to these uncertainties, Dr. Lowenstein has requested that all but essential purchases be put on hold and that department employees take measures to reduce power consumption.

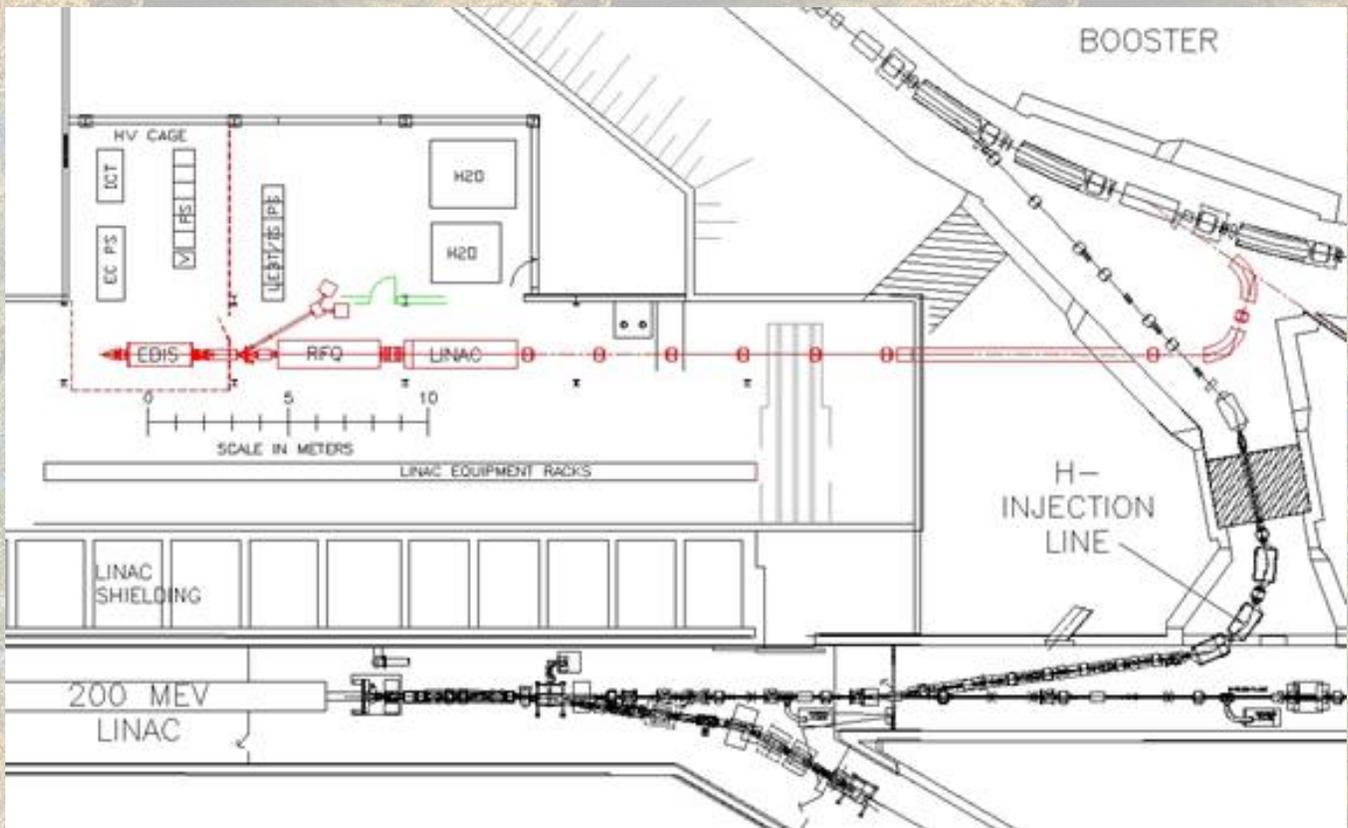


Stephanie LaMontagne-McKeon



A lot has been happening on the EBIS Project, and I've been negligent in not giving regular reports. The first step in our recent progress was to get a logo (see above)! Then in July we had a DOE technical, cost, schedule, and management review for the project, which went very well. The review committee endorsed our design choices (an EBIS source, followed by a Radiofrequency Quadrupole (RFQ) accelerator and a short heavy ion linac), and our cost estimate (~\$19 million). We then updated and submitted the hundreds of pages of official project documentation that DOE required. Finally, on September 30, there was a meeting of the DOE Energy Systems Acquisition Advisory Board (ESAAB), where they gave the project CD-1 approval. This was a major step. Although it doesn't yet get us any DOE money for construction, it does let the project go ahead with all the detailed design work. Fortunately, NASA is also providing partial funding for the project and with their pot of money we can start buying and building hardware, so the procurements of the EBIS superconducting solenoid, the electron collector, and the RFQ, are all happening this year.

For those of you who don't know where the EBIS will be located, it will be squeezed in to the equipment bay at the high energy end of the 200 MeV H-minus linac (plus the use of a small building addition). The planned layout is shown below, in red. The scheduled completion of the project isn't until 2010, but most of the hardware should be in place and testing should begin about a year before that.

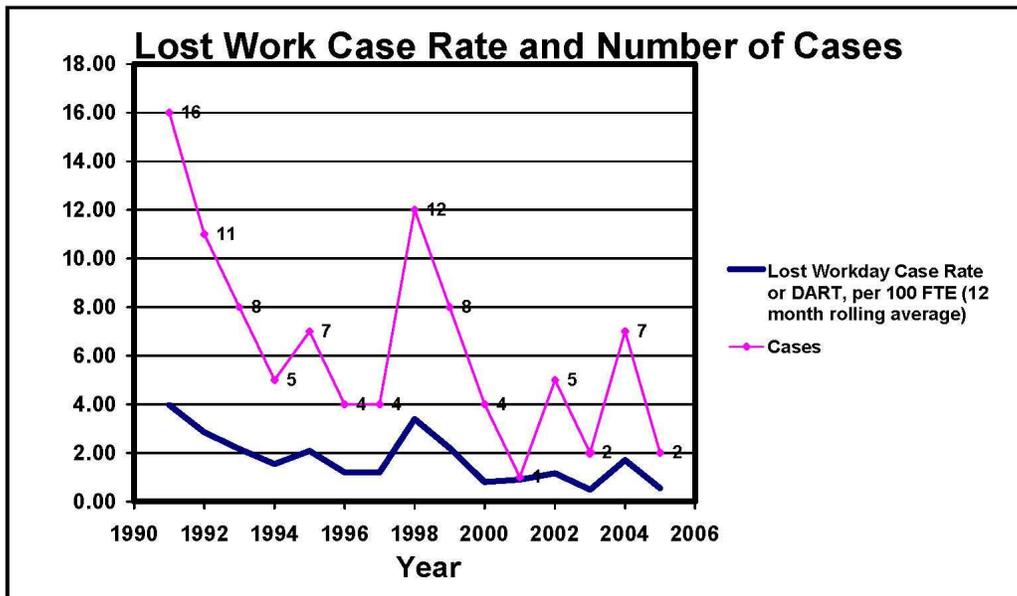


Very successful beam tests on our prototype EBIS continued through this past summer. We then shut the Test EBIS experimental program down about a month ago, and are presently modifying the source and test stand area so that it will be able to operate on a high voltage platform at 100 kilovolts. This will let us do beam measurements needed for the final design of the matching beamline into the RFQ. In addition, when the RFQ finally arrives in the spring of 2007, we will be able to test it here before moving it down to the final location.

While the success in achieving CD-1 hinged on the breakthrough work over the past ~5 years by the EBIS Source Group, almost every group within C-AD helped over the past nine months in the major push to get the project to this point. The impressive talents and past achievements of the people in our Department left the outside reviewers convinced that this project would be completed successfully.

Jim Alessi

Safety Stats



C-AD Occupational Injury Statistics

	For Year 2003	For Year 2005
First Aid Cases	5	2
Recordable Cases	11	3
Lost Work Cases	4	1

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

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

Friday, NOVEMBER 4, 2005

Pete Cirnigliaro

Transfer

Michael Sivertz transferred to C-AD from the Physics Department on October 1. He is working with Adam Rusek in the NSRL Group.

Welcome

Departures

Harold Gassner, Collider Accelerator Support Group will be retiring October 14.

Zvi Segalov, Collaborator working with I. Ben-Zvi for the past year left the lab September 30.



In Memory



Paris Demetriou who worked for the Beam Components and

Instrumentation Group under Tom Russo from 1999-2001 was killed in an airplane crash outside Athens, Greece on August 14th. The plane was a Boeing 737 Helios airliner flying from Cyprus to Athens, Greece. Paris, his fiancé and 5 other couples were onboard, going on vacation to the Greek island Paros. A Memorial Service was held for Paris on September 25th at the Saint John Greek Orthodox Church in Blue Point.



Did You Know?

Prevent Identity Theft

- Secure your wallet or purse at all times.
- Take care when giving out personal information over the internet and telephone.
- Shred or rip all mail that includes personal identification so that it cannot be retrieved.
- Personal information should not be "loaned" to friends or relatives.
- Order a credit report once a year to ensure accuracy.
- Remove your name from telephone or mailing lists.

Take Action If You Become a Victim:

- Report the crime to your local police.
- Report the identity theft to major credit card bureaus, banks, credit companies, and the Federal Trade Commission.
- Cancel accounts that have been opened or tampered with since the identity theft.

MAJOR CREDIT BUREAUS:

- Equifax, <http://www.equifax.com/> Fraud line: 1-800-525-6286; Credit report line: 1-800-685-1111
- Experian, <http://www.experian.com/> Fraud line: 1-888-397-3742; Credit report line: 1-888-397-3742
- Trans Union, <http://www.tuc.com/> Fraud line: 1-800-680-7289; Credit report line: 1-800-916-8800

Useful Contacts:

- Social Security Administration Fraud Hotline (SSAFH): 1-800-269-0271
- US Government Website - Federal Trade Commission: www.consumer.gov/idtheft Hotline: 1-877-438-4338
- Internet Fraud Complaint Center: <http://www.ifccfbi.gov/>



DAY LIGHT SAVINGS TIME from Newcomer's Almanac 10/05

In most of the US, Day Light Savings Time (DST) ends at 2:00am on the last Sunday of October (the 30th this year). Turn your clock back one hour. DST begins again at 2:00am on the first Sunday in April. Did you know:

- Starting in 2007, DST will be extended one month it will begin on the second Sunday in March and end on the first Sunday of November (after Halloween!).
- DST is not used everywhere in the US - Hawaii, some of Indiana, and all of Arizona except the Navajo Indian Reservation do not use it; neither do the territories of American Samoa, Guam, Puerto Rico, or the Virgin Islands). DST is used in about 70 countries worldwide, though not countries near the equator, where daylight hours are more equal around the year.
- In the average US home, 25% of electricity usage is for lighting and small appliances. Overall US electricity usage is reduced by about 1% every day DST is in effect.
- The last change to DST in the US was in 1986 when the start date was changed from the last Sunday in April to the first, estimated to save 300,000 barrels of oil each year.

Immediate request!

The QOL/BERA/Recreation office is collecting clean/gently used or new Halloween Costumes for underprivileged children in the local area to be distributed by Transitional Services of NY for LI and Haven House/Bridges, Inc.

Please drop off your costumes to C. Carter/J. Rula in 179B by Oct. 14, 2005.





Roger Bonati (Booster/AGS Power Supply)
married **Jessica** on September 22.

Best Wishes



Don't miss the following BERA sponsored events & Trips! Go to the BERA website at www.bnl.gov/bera for updated information on all events/trips, DISCOUNTS, Clubs, and more! BERA Store Ext. 3347, QOL/BERA/Recreation office Ext. 5090.

Bear Mountain 10-22-05 Oktoberfest, ice-skating, fall foliage, hiking, museums & more! \$10pp for Luxury Coach, pay as you go for all attractions. Leave BNL at 9:00am, leave Bear Mt. At 4:30pm.

<http://www.hudsonriver.com/bearmtn.htm>

Ø **Peddler's Village-Lahaska, PA.** Tax Free Holiday Shopping on Saturday 11/5/05! <http://www.peddlersvillage.com/> The magical mix of merchandise found in their 70 specialty shops ranges from classic to contemporary. \$20pp for Luxury Coach. Leave BNL at 8:00am, leave PA. at 5:00pm.

Ø **BERA Bus Trip to NY City.** NY City excursion- no destination in mind! Enjoy the city's holiday magic; shop, eat, site see on Sunday 12/4/05. \$10 pp round trip. Drop off/Pick up Bryant Park. Depart Brookhaven Center at 9am, Depart NYC at 5pm. <http://bryantpark.org/>

Ø **RADIO CITY CHRISTMAS SPECTACULAR!!!** Sunday 12/11/05. Enjoy the show, the magical

holiday lights of New York City, Rockefeller Center, Macy's windows, and more. 12 noon show for 1st mezzanine seats, 300 section. Tickets are \$84.00 and include a luxury coach bus, which will leave Brookhaven Center at 9:00am and leave NYC at 6:00pm.

Ø **~BERA HOLIDAY PARTY~ Three Village Inn Stony Brook** Friday 12/16/05~ \$50 pp for a full open bar, Horsd'oeuvres, Dinner Buffet, DJ dancing & prizes. Enjoy the holiday party with coworkers, friends & family!

Ø **BLUE MAN GROUP** You've heard about them- now check them out! Sunday January 15, 2006 \$60. Depart Brookhaven Center at 9:30 pm, 2pm show, depart at show's conclusion around 4:30pm. <http://www.bluman.com/> Not recommended for children under 6.

Ø **American Museum of Natural History Saturday February 11, 2006.** Depart Brookhaven Center at 8:30am & depart the museum at 5pm \$25 adult/child. Includes coach bus, all exhibits, Rose Hall, and Imax. <http://www.amnh.org/>

UPCOMING EVENTS in 2006: March- NY City Opera-Don Giovanni, TARZAN, RINGLING BROTHERS CIRCUS, BROOKLYN BOTANIC GARDENS and more- check back often!

10-10-05



***Celebrate Hispanic Heritage Month
Latin Dance at Brookhaven National Laboratory***

Sponsored by the Brookhaven Employees Recreation Association (BERA)



**Friday
October 14, 2005
7:00 PM-Midnight
Brookhaven Center**



A Cold Buffet Will Be Served

Cash Bar

Coffee and Dessert

*Featuring Guest Dancers Trained
in Salsa, Merengue and Tango*

Presented by BNL's BERA Clubs:

***The Hispanic Heritage Club
with
The Social & Cultural Club***

Purchase tickets early

Adults - \$12.00

\$15.00 at the Door

Dance tickets may be purchased
at BERA Sales Office, Berkner Hall

Bldg. 488 by BNL Employees
from 9:00 am to 3:00 pm,
Monday through Friday.

All visitors to the Laboratory age 16 and
older must bring a photo ID.

Music By DJAlex

Dance Instruction at 7:00 - 7:45 p.m. Salsa for Beginners

General Dancing 8:00-Midnight

Latin Dance Presentation at 9 p.m.

-Brookhaven National Laboratory-

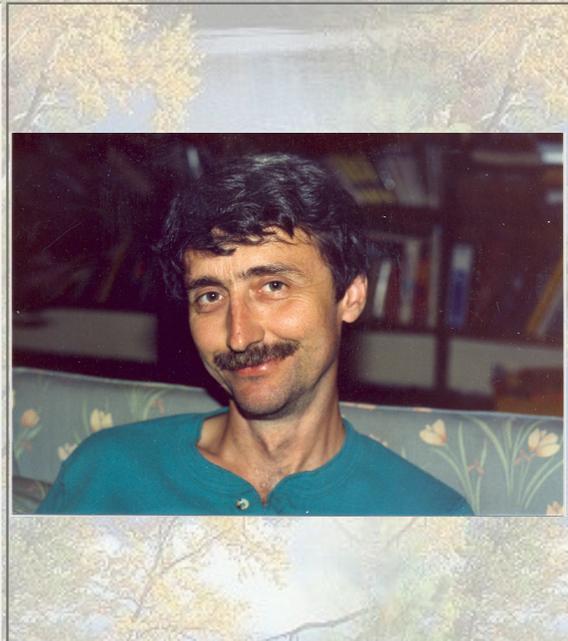
Long Island Expressway (LIE) to exit 68N, 1 mile north on the William Floyd Parkway.

For Tickets and Other Information, please call Yvette Malavet-Blum (631) 344-5591 or malavet@bnl.gov

***We wish all of you born in OCTOBER
a happy and healthy year ahead.***

Birthday people ONLY click on cake





Happy 60th Gerry

Service Award September

10

Haixin Huang
Gregory Marr

CONGRATULATIONS!!



Fun Time

Button Mania

[New](#) - [Restart](#) - [Undo](#)

Difficulty setting:

Clicks used:

How to play:

Click on one of the buttons in the playing field to decrement that button's value by 1, as well as the values of the 4 surrounding ones.

Objective:

Set all buttons to '0'.

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



HAPPY HALLOWEEN



October 2005

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
		Rosh Hashanah First Day of Ramadan				

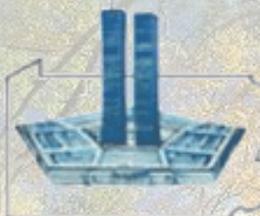
9	10	11	12	13	14	15
			Instrumentation / Particle Physics Seminar "SiD: A Robust, Optimized Detector for the ILC" J. Brau, U. of Oregon, 11am Bldg. 535 LCR	Yom Kippur C-AD Cryo Group Seminar "Cryogenic Safety of Large Helium Systems" by Dr. F. Haug, CERN Cryo Safety Officer, 1pm, 911A, Snyder	C-AD AP Seminar "Dynamic Aperture Control for Synchrotrons", J. Bengtsson, NSLS, 4pm, 911B, LCR	
16	17	18	19	20	21	22
			Cello-Guitar Duo in Concert noon Berkner Auditorium		C-AD AP Seminar "Report from MAD-X Day and ROOT Workshop", N. Malitsky, C-AD, 4pm, 911B, LCR	
23	24	25	26	27	28	29
30	31					
Daylight Savings Time Ends						



November 2005

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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		1 Former Apollo Astronaut to Talk about Effects of Space Radiation 1:30pm Medical CR	2 Rastrelli Cello Quartet Concert Noon Berkner Auditorium	3	4 Professor "Louie" & The Crowmatix Concert 8pm Berkner Auditorium	5
6	7	8 Election Day	9	10 John S. Rigden to give a Talk on Albert Einstein's Revolutionary Discoveries in Physics, 4pm, Berkner Hall	11 Veterans' Day Lab Holiday	12
13	14	15	16	17	18	19
20	21	22	23	24  Lab Holiday	25 Lab Holiday	26
27	28	29	30			



We Remember
Sept. 11, 2001

Editor: Pamela Manning x4072