

**MAY '16  
ISSUE**

# PARTICLE POST

COLLIDER-ACCELERATOR DEPARTMENT

Contact: [A. Lamberti](#)

**A WORD FROM  
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**April 2016**

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## NOTE FROM OUR CHAIR: Thomas Roser

This year's gold-gold run again set new records with the highest peak luminosity and also the highest weekly delivered integrated luminosity. This running mode was completed at 8 am on May 9 before starting the switch-over to deuteron-gold operation. This RHIC run was extended by a little more than three weeks until the end of June to make up for the downtime due to the RHIC magnet quench diode failure. The last week of the run, after the completion of the deuteron-gold operation, will be used for the first commissioning of Coherent electron Cooling. There is steady progress of the development of the electron beam for CeC, all done in parallel to RHIC operations.

On the floor of building 912 the Ultrafast Electron Diffraction (UED) facility is being completed in preparation for commissioning and operations during the summer. The UED facility consists of a laser driven rf electron gun that produces beams of extremely short electron bunches that are used to study ultrafast processes inside materials. The UED facility is part of the Accelerator Test Facility and will be used by researchers from the Energy and Photon Sciences Directorate.

## [VIEW UPCOMING CONFERENCE PROJECTIONS](#)

**\*PROJECTIONS DUE ASAP\***

## DID YOU KNOW??

Check out who received an employee Service Award this year! Collider-Accelerator Dept. employees who received a [Service Award](#).

Check out who received an employee [Spotlight Award](#) this year!

**Congratulations to all those involved in the successful installation and commissioning of**

## EVENTS/SEMINARS

**May 19- 20 - (Physics, Rm. 2-84 | 9a) Workshop:**  
"ATLAS BSM Higgs Analysis Jamboree"

**May 20 - (Bldg. 510, Rm. 2-160 | 12:15p) HET Lunch**  
Discussions "Avoiding the Traps of EFT Higgs  
Analysis"

**May 23 - (Bldg. 463, John Dunn Seminar Rm. | 3p)**  
Biology Department Seminar: "An Integrative

## the Coherent electron Cooling Proof of Principle (CeC PoP) project!



## Approach to Understanding HIV-1 Capsid Assembly and Host Cell Interactions"

May 24-25 - (Stony Brook University | 8:30a) High Performance Computing and Programming

May 24 - (Bldg. 734 | 12p) Asian Pacific American Heritage Month Event: "Asian Food Tasting"

May 30 - Lab Holiday: Memorial Day

June 3 - (Occupational Medicine Clinic | 9a) HR/OM Health Promotion Program: Health Screening

June 15-16 - (Brookhaven Center | 9:30a) Blood Drive

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### IN OTHER NEWS...

#### *New Graphene-Glass Combo Powers "Spontaneous" Solar Cell*

Brookhaven Does (Graphene) Windows. Apparently the Brookhaven solution to the graphene problem has been staring everybody in the face, ever since graphene was first discovered in 2004: ordinary glass window. [Read more.](#)

#### *Research Teams Use DNA to Make 3-D Nanoparticle Structures with High Precision*

DNA strands anchored to the surface of nanoparticles allow researchers to assemble the particles into three-dimensional crystalline lattices. Such control allows researchers to make new materials with desirable properties. [Read more.](#)

#### *Farmingdale takes first in BNL High School Science Bowl*

Farmingdale High School students have one contest down to a science. [Read more.](#)

#### *New cathode material stops batteries turning crusty with age*

Scientists at three US Department of Energy (DOE) national laboratories have discovered how to keep a promising new type of lithium ion battery cathode from developing a crusty coating that degrades its performance. [Read more.](#)

#### *RHIC Particle Smashups Find that Shape Matters*

Scientists colliding football and sphere-shaped ions discover evidence supporting a paradigm shift in the



birth of the quark-gluon plasma. [Read more.](#)

*Two American Physics Labs Are Vying for a Billion Dollar Particle Accelerator*

Two labs are vying for government funding to host a billion-dollar atom smasher, and the battle is getting political. [Read more.](#)

*Neutrinos Change Their Flavor and Snag Another Nobel Prize*

Early this morning the world learned that the 2015 Nobel Prize in Physics has been awarded to Takaaki Kajita and Arthur B. McDonald for discovering that neutrinos can change from one type to another. [Read more.](#)

*World's largest atom smashers create world's smallest droplets*

How long can a droplet shrink and remain a liquid? [Read more.](#)

*'Inflatable Dark Matter' Could Explain Why We See Less Than Many Theories Predict*

Many wonderful theories that explain the evolution of the universe fail because they predict more dark matter than is actually out there. Now a new paper proposes one event in the early universe that would reduce the amount of dark matter in all the theories. [Read more.](#)



*Ion collider produces droplets of primordial goo*

The Relativistic Heavy Ion Collider just spit out tiny droplets of a liquid researchers say resembles the seeds of the cosmos, primordial goo created by the Big Bang, which existed on briefly before cooling the matter that helped birth stars, galaxies and planets. [Read more.](#)



*Brookhaven National Laboratory projects are up for awards*

Four projects developed at BNL have been nominated as finalists for awards to be presented this year by a national magazine. [Read more.](#)

*Scientists Create Primordial 'Perfect Liquid' in Lab*

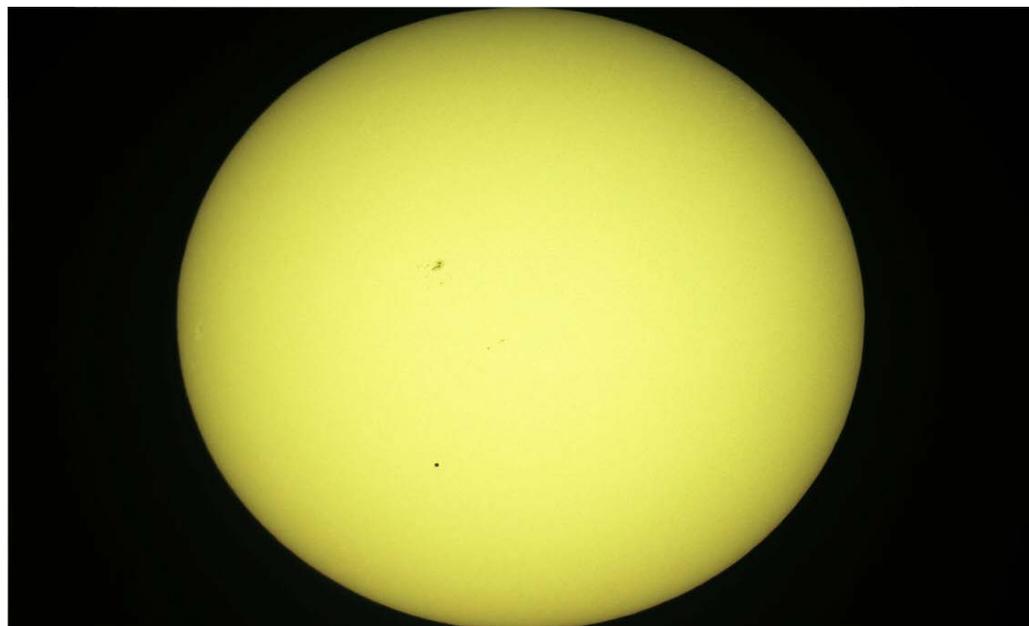
The BNL's Relativistic Heavy Ion Collider smashed together large nuclei at nearly the speed of light to recreate the fundamental particles in the primordial soup present during the earliest days of the universe. [Read more.](#)

*World's most powerful digital camera being built by US Department of Energy*

The US Department of Energy is building a digital camera that puts your camera to shame. [Read more.](#)



NGC 5907, or "the Splinter galaxy" by Steve Bellavia



Mercury transit by Steve Bellavia

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## WHAT'S GOING ON IN OUR NEIGHBORHOOD?

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### *Interested in Cycling?*

<http://www.bicyclelongisland.org/majoride.htm>

<http://www.cyclotour.com/events.htm>

### *Interested in Running or Walking?*

**Fear the Pier Obstacle Run** - May 21 in NYC

**Glow Run 5K** - May 21 in Center Moriches, NY

**Race for the INN (Interfaith Nutrition Network)** - May 21 in Seaford, NY

**I Did the Grid 4-Mile Run** - May 28 in East Northport, NY

**Sunset Run** - Jun 3 in Kings Park, NY

...Check out the [LI Running Calendar](#) for more!

### *For the Kids:*

**Youth Programs** - Port Jefferson Village Recreation Department presents a number of youth programs and summer camps your child can enjoy this summer. Find more information [here](#).

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## DAY AT THE VINEYARDS...

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*Duckwalk North* - SOUTHOLD - Music on Saturdays (4-6pm)

*Castello di Borghese Vineyard & Winery* - CUTCHOGUE - Vineyard Tours & Wine Tastings Every Thursday & Sunday at 1pm & FREE Jazz Every Saturday (2-4p) with Marguerite Volonts

*Jamesport Vineyards* - JAMESPORT -Live Music from 1-4pm every Fri, Sat & Sun

*Martha Clara Vineyards* - RIVERHEAD - Live Music every weekend

*Palmer Vineyards* - RIVERHEAD - Live Music every Sat (12-4).

*Findar Vineyards* - PECONIC - Live Music Every Saturday (1-5pm)

*Baiting Hollow Farm Vineyard* - BAITING HOLLOW - Music every Sat & Sun from (2-6)

**Stony Brook Events:**

**The Mickey Rooney Story (Musical Theater Tribute Performances)** - May 4 - Jun 12 at The Educational and Cultural Center in Stony Brook Village

**Ladies Night Out** - May 19 (6-9p) at the Stony Brook Village Center: Enjoy live music courtesy of The Jazz Loft! There will be refreshments, free gifts, raffles, goodie bags and more! Registration is FREE.

**The Jazz Loft - Grand Opening!** - May 21 (2p): "A Great Day in Stony Brook" Parade from the Educational and Cultural Center to The Jazz Loft followed by a Ribbon Cutting Ceremony. (3-5p): Opening of The Loft with live music and refreshments. (7-9:30p): Two show times: The Jazz Loft Big Band performs with Lauren Kinhan & buffet dinner. For tickets and information: [www.thejazzloft.org](http://www.thejazzloft.org) or call (631) 751-1895.

**Port Jefferson Events:**

**22nd Annual Families Walk & Run for Hope** - May 7-22 (8a - Run, 9am - Walk)

**"Roller Skating on the Harbor"** - May 27 by the RINX Opens

**Farmer's Market** - May 1 (9a - 2p) in PJ Village, Every Sunday through October

*Faumanok Vineyards* - RIVERHEAD - Fresh, Local Oysters (2-5pm) every Sat & Sun starting Memorial Day through September

*Check out Erik Forsyth's Travels:*



[HTTP://WWW.YACHTFIONA.COM](http://www.yachtfiona.com)

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**NOTE FROM OUR ADMINISTRATION:** Sue Pankowski

Acc. Test Facility



The Business Operations Group is currently working with PI's to finalize this year's DOE Budget Submission. This entails preparing Field Work Proposals (FWP's) for all DOE programs and developing budgets and personnel estimates through fiscal year 2018. The FWP is the formal proposal submitted to DOE's program managers for the work performed within the department.

MIRP

Scientific staff interested in preparing LDRD proposals for consideration as part of the FY17 call should submit a pre-proposal to me by no later than May 20. The pre-proposal should include the title, term, approximate budget and a brief abstract of the project. For more information, please contact me.

▶ Arrivals/Departures

During this time each year, we also perform a Special Process Spares inventory certification, which is required by DOE regulations. If you are a custodian for SPS inventory items, you will receive a memo listing each item and the location of the item as noted in last year's review. Please update all information and return your signed certification to Paul Sparrow by May 27.

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**NOTE FROM OUR ACCELERATOR DIVISION: Wolfram Fischer**

[MIRP](#)



The Au+Au part of the RHIC Run-16 came to an end on Monday, 9 May 2016. This year again we set new records for the peak and average luminosities. Congratulations to Xiaofeng Gu, the Run Coordinator, and the whole team. With the increased intensity we have seen new failure modes and will review the machine protection at the next RHIC Retreat.

We are now switching to d+Au collisions at four different energies. This part of Run-16 will be coordinated by Chuyu Liu. The last week of Run-16 will be dedicated to the CeC PoP experiment.

On 4-5 May 2016 we exchanged the EBIS electron gun, which had a failing cathode heater. During this time, Au beam for RHIC was supplied from Tandem, something that was set up by the Tandem and injector group personnel in short order. Due to the fast setup there was no noticeable impact on RHIC, and only a small impact on the NSRL program.

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**NOTE FROM OUR EXPERIMENTAL SUPPORT & FACILITIES DIVISION: Bill Christie**

MIRP



In last month's article I discussed that, as we'd recovered from the Blue ring diode failure and were back to Physics running, that there were still some decisions to be made regarding the exact schedule for the remainder of RHIC Run 16. The majority of these decisions have now been made. It was decided that the 200 GeV Au on Au running would end at 8 am on Monday, May 9th, at which point the program would transition and set up for running 200 GeV deuteron on Au collisions. There had been a failure of a ceramic vacuum pipe in the 5:00 region of the Yellow ring that occurred on April 29th. While a repair was made on this date, there was a residual high vacuum reading in this region through the last 9 days of the AuAu run. There was an 8 hour access period into RHIC on both May 9th and 10th to repair and bake out this section of pipe. Even with this interruption to beam operations, the Collider & Operations groups, as well as the PHENIX and STAR Detectors, were able to get through the d-Au setup very quickly, and Physics running for the 200 GeV d-Au run was declared by early afternoon on May 12th.

There was also a discussion amongst PHENIX, STAR, C-AD, and our ALD Berndt Mueller on the order for the three lower d-Au energies planned to be run after the GeV running, and before the end of the run. The decision was made that after the 200 GeV d-Au will come 62 GeV, followed by 19.6 GeV, and ending with 39 GeV. These will all be short runs, so the activity level will remain high between now and the end of the run as we setup, take a data set, setup, take a data set,...

With the arrival of the March Power Bill for RHIC it was also decided that the Run would be extended until the morning of Monday, June 27th, at which time the Cryo warm up will begin.

Beam operations for d+Au running is scheduled to end on Monday morning, June 20th, followed by the setup and then running of the Coherent Electron Cooling (CeC) Proof of Principle (PoP) experiment/R&D effort the final seven days from the 20th to the 27th.

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**NOTE FROM OUR ACCELERATOR R&D DIVISION:** Ilan Ben-Zvi

[Acc. Test Facility](#)



Not available for comment at the time of this publication.

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**NOTE FROM OPERATIONS:** Paul Sampson



Following a very timely and successful repair of the failed internal diode in one of RHIC's super conducting dipoles, the run continued. The Schedule was extended and the gold-gold program ran through April and ended on May 9th. At that time, the changeover to deuteron gold running began. In addition to the changeover setup, repair of the yellow injection kicker vacuum chamber and subsequent bake out was completed.

The AGS continues to run very well. Issues with the cold snake persist and will have to be addressed during the shutdown after run 16. Some polarized work, without the snake, was completed last month and may continue behind any LINAC 200 MeV runs. Deuteron setup was successfully completed and the AGS is presently providing gold and deuterons for RHIC setup.

LINAC is running well for BLIP, NSRL, and Booster. The Raster system is running well and the current on target has been steady at a current exceeding 150uA at 117 MeV. An issue with Mod 6 is limiting higher energy beams to 130uA average current. This problem will be repaired after the BLIP run is complete for this year, barring further decrease in performance. LINAC maintenance periods continue to be executed independently from RHIC and around scheduled BLIP and NSRL work.

A short in the EBIS gun was repaired early this month, requiring a late start one day of the NSRL program. During recovery of EBIS, the Tandem successfully provided gold beams for RHIC fills. Since the repair, beams from EBIS have been used for RHIC stored and developed and the NSRL program. Tandem is providing deuterons for the RHIC d-Au run.

The Booster continues to run well.

The "[RHIC Broadcast](#)" link displays the latest schedules for testing, power disruptions, outages and daily schedules.

To view a list of approved work for the Shutdown or to review past results, go to the [Job Request System](#) and select the appropriate date. This link is behind the firewall and requires privileges to view.

For weekly schedule updates see: [This Week](#), which can be viewed by all.

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**NOTE FROM OUR ACCELERATOR TEST FACILITY: Mark Palmer**

Acc. Test Facility

MIRP



**ATE Operations:**

The last month has been a productive one in Building 820. An experimental team from Imperial College London studied laser-induced shock-wave acceleration of protons in a hydrogen gas jet. Staff from NASA's Jet Propulsion Laboratory carried out radiation damage studies for the Europa mission. A UCLA group used a novel experimental configuration to both accelerate and electron beam in a wiggler and to produce high energy x-rays via the Inverse Compton Scattering process. A collaboration between SUNY-SB and UT-Austin is now beginning a set of spectroscopic measurements of laser wakefields in preparation for future Laser Wakefield Acceleration (LWFA) studies. Finally, the ATF operations team is commissioning a new x-band deflector cavity that will enable an important new class of experiments.

**ATE-II:**

The ATF-II project has focused on updating its cost estimate as part of the re-baseline process requested by the DOE Office of High Energy Physics. In Building 912, the first major capability associated with ATF-II, the Ultrafast Electron Diffraction (UED) facility, will soon begin operations. UED hardware commissioning is nearly complete, the construction and operations teams are addressing the remaining issues identified in the facility's Internal Readiness Review, and first beam is imminent. Needless to say, our colleagues from the Condensed Matter Physics & Materials Science department are anxiously awaiting their chance to set up the first experiment with the UED apparatus.

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**NOTE FROM OUR MEDICAL ISOTOPE RESEARCH & PRODUCTION PROGRAM: Cathy Cutler**

[MIRP](#)



Recently the DOE Isotope Program held their strategic planning meeting at the Brookhaven Center for two days. The meeting was attended by members of the National Isotope Development Center (NIDC), the DOE Isotope program office and members from each of the national labs that produce and distribute isotopes. The national labs represented were PNNL, LANL, ORNL, BNL and INL. The NIDC provided an update of the mission of the program and upcoming activities as well as the roles and responsibilities of members of the NIDC and expectations of the labs. Each National laboratory was given one hour to present an update on their activities highlighting progress in support of the strategic plan. The strategic plan was then reviewed and items added and Labs assigned to work on for the next year.

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This year has been a good year for the Medical Radioisotope Program (MIRP) at BNL. The successful installation of the raster has allowed for an increase in the beam intensity and thus significant increases in Sr-82 production. We have produced and shipped more Sr-82 this year than in any previous year. The increase in material has allowed us to supply material when other sources could not. Headquarters was very pleased with the success of the raster and our ability to fill in for emergency shipments. This year the MIRP also had three audits including a surprise FDA audit and a planned customer audit. We received only one observation from the FDA audit and three from the Bracco audit. Based on this success headquarters asked us to present our audit findings and what changes we had made so the other programs could benefit. Also highlighted was our work with LANL and ORNL in support of the development of accelerator production of Ac-225. The material provided by BNL has aided in chemistry optimization, evaluation of the impact of the Ac-227 impurity and compassionate treatment of a patient. New thorium targets were fabricated and tested this year and a large target fabrication and test irradiation towards the end of the season is planned. This is all in preparation for our annual project review towards the end of July. This will be our first go/no go decision which will be based on evaluating the feasibility of accelerator production, development of the chemistry and determination of the impact of the Ac-227. The Ac-227 is a longer lived impurity that is produced along with the Ac-225, initially only 0.15% relative to Ac-225, but even this small amount requires determining if its presence results in any negative impact on patient use.

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Some additional successes this year were in research. The group is evaluating novel resins for selective extraction of radiometals and as new generators. For the next year headquarters would like the MIRP to continue evaluating new radioisotopes that we can produce or extract. When we produce the Ac-225 there are additional radiometals produced that are of interest for medical applications. A goal for the next year will be to develop and evaluate methods to extract these from the irradiated thorium target in a form suitable for use. There is also a need for longer lived positron emitters for imaging and quantitation and we are evaluating production and generator routes. Several students will be joining the group this summer to work on these projects.

Additionally the isotope program is seeing increased demand. Gallium-68 (Ga-68) is seeing increases in utilization mostly due to its availability via a generator but also as its simple chemistry allows for easy incorporation into biomolecules for evaluation. As it is a positron emitter it can be imaged with high resolution and allows for

quantitation of uptake which is critical for assessing the extent of patient disease. The parent of Ga-68 is germanium-68 which was produced by MIRP in the past and we are working towards producing again. The demand for Sr-82 is increasing and to meet this we are looking into irradiating Rb metal which should result in a 40% increase in production. A plan was presented at the strategic planning meeting and with input we are moving forward with it.

Finally we would like to thank Caitlin for all her work in organizing the strategic planning meeting and Bryan for his assistance with the computer.

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**Ian Fade** - LEReC, Upgrade Support, Accelerator Division

[Acc. Test Facility](#)

**Philipp Kolb** - SRF, RF Systems, Accelerator Division

[MIRP](#)

**Glenn Wagner** - Access Controls, Controls Systems, Accelerator Division

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**DEPARTURES: Farewell, you will surely be missed..**

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**Lou Evers**

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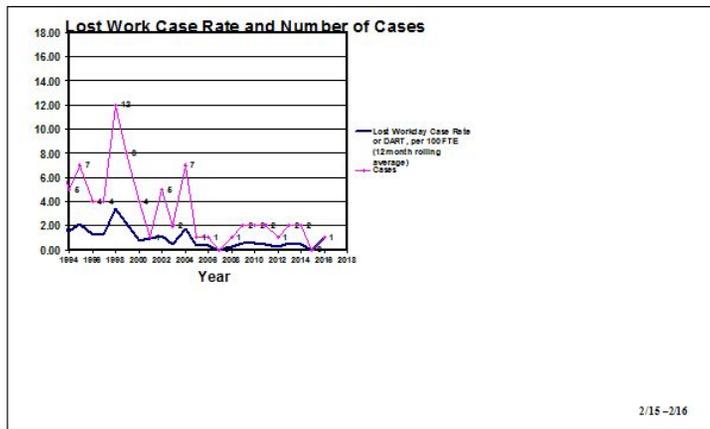
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## SAFETY STATS: Peter Ciriigliaro

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### C-AD Occupational Injury Statistics

For Year 2015    For Year\* 2016

First Aid Cases	5	1
Recordable Cases	1	1
Lost Work Cases	0	1

\* Calendar Year through 2/15