

Particle Post March 2009

"What lies behind us and what lies before us are small compared to what lies within us." ~ R.W. Emerson

Previous issues

A Note From Our Chairman



February seemed to be the harbinger of good news for the RHIC program.

Governor Patterson visited BNL to announce that New York State will provide BNL with electrical energy at rates comparable to what we presently receive over a multi-year period, possibly for 10 years. The negotiation, which includes DOE, should be completed by June 30 when the present arrangement ends.

The Congress passed the Stimulus Bill that will trickle down to RHIC. We have provided the Office of Nuclear Physics our list of "shovel ready" AIP projects, infrastructure improvements and large purchases, such as linac power tubes. The 2009 Omnibus Bill has a significant increase for nuclear physics and isotope production, BLIP. Stay tuned for the details. As soon as we have firm numbers I will call an all-hands meeting to present the State of the Department.

RHIC is on track for the first 250 x 250 GeV polarized proton run. This will be the first time that spin physics will sample the 500 GeV center of mass energy domain. This could result in some very exciting physics results. As all of you have probably noticed that we have been very busy hiring new staff over the past months. I would like to take this opportunity to welcome everyone to C-AD.

I would also like to thank everyone for remaining up to date with their training and being accident free this calendar year. Training and safety are mutually linked and it is critical that we aim for zero accidents. No one wants either themselves or their colleagues to be hurt in an accident. Let us keep it this way in 2009.

Administration



As we approach the expiration of a five month Continuing Resolution, the Laboratory remains optimistic about the FY 2009 Budget. For the annual Nuclear Physics Budget Briefing held last month in Germantown, Maryland, the Program Office instructed us to assume FY 2009 Presidential Budget numbers for RHIC in our current year budget scenarios. A budget at that level would mean a substantial increase in current year funding, the most important benefit of which would be an extension of the run through the end of June.

In the meantime, we continue to manage resources to FY 2008 funding levels. Year-to-date RHIC operating expense is \$43.2M. To put that number into context, five months or 42% into the fiscal year, we have spent only 37% of the \$117.0M budget provided by the current guidance. Our success in managing so well is due primarily to hiring delays. As of February 28th, FY 2009 manpower projections for RHIC operating are 343 fte's – 7 fte's short of the optimally defined staff of 350 fte's.

Thus far, the Continuing Resolution has not impacted EBIS activities and NASA continues to fund NSRL operations at or above planned levels.

Operations Update



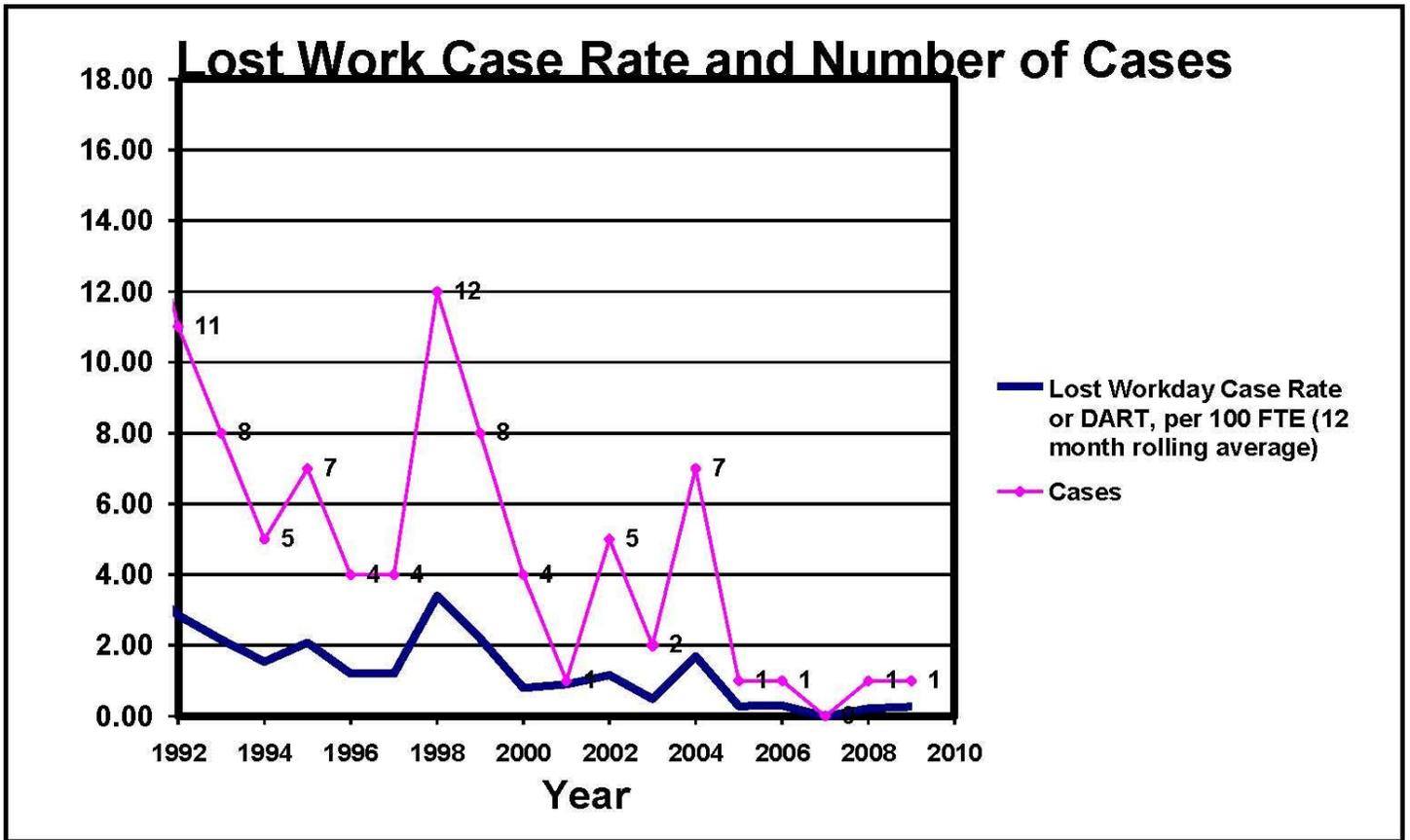
Now into the 4th week of operation with beams in RHIC, we are ending up the “ramp-up” phase, where we work on improving luminosity and polarization during days and evenings, and set-up stores for experiments set-up during the owl shift. For the upcoming weekend, the plan is to focus on delivering production stores for the experiments around the clock, and if luminosity, polarization and reproducibility are acceptable, we will start physics production with protons at 250 GeV next week.

The set-up phase has been challenged by a rather high rate of system failures, at time compounded by unforgiving weather, and nontrivial commissioning of planned system upgrades. Food for thoughts and discussions at the next RHIC Retreat.

During physics running we will continue taking development time during days as necessary to increase machine performance. With physics running, we will also start the accelerator physics experiment program (APEX). 28 new study proposal have been submitted and reviewed; with studies open from previous years, the total of submitted proposals is ~50, another reason for wishing for a long run at 100 GeV after the present 250 GeV, slated to end around mid of April.

Concurrently, the BLIP program is running out of Linac, the injectors are running under RHIC stores and in parallel to RHIC interruptions to improve polarization out of AGS. NSRL is getting all ready to go again, with equipment and beam tests in progress this week, in preparation for the start of the spring run next Monday on March 9.

Safety Stats



C-AD Occupational Injury Statistics

For Year* 2008 For Year* 2009

First Aid Cases	6	0
Recordable Cases	3	0
Lost Work Cases	1	0

* Calendar Year

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

EXCHANGE DATE: FRIDAY, MARCH 6, 2009

next exchange will be April 3rd

Pete Cirnigliario



Arrivals

Naomi Baer joined the department on February 23, working with Dan Lehn in the Beam Components Group.

Karim Hamdi joined the department on March 2, working with Tony Arno in the Design and Documentation Group.

Laiman Kuet joined the department on February 17, working with Nick Franco in the Communications and Electronics Support Group.

Criselda Manalo joined the department on March 2, working with Stephanie LaMontagne in the Administrative Group.

Paul Orfin joined the department on March 2, working with Roberto Than in the Cryogenics Systems Group.

Jordan Ziegler joined the department on March 2, working with Peter Ingrassia in the Main Control Room.

WELCOME!

Departure

Damayanti Naik, Superconducting Accelerator and Electron Cooling Group will be leaving on April 9.

GOOD LUCK!!

Transfer

John Cupolo, Beam Components Group, transferred to the Light Source II on February 23.



[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 **March***

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



C-AD Service Awards February

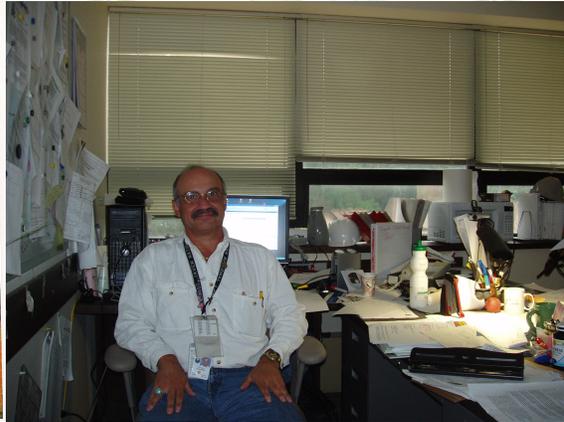
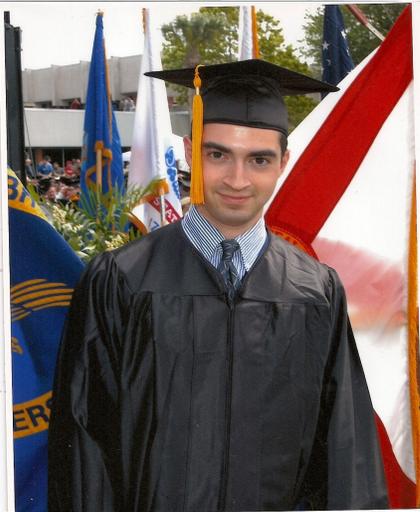
30 years	Alfredo Luccio
20 years	James Biancarosa
10 years	Mei Bai Wenge Fu

Congratulations!



Get To Know Your Co-Worker

Thomas Tallerico, Cryogenics Systems, Controls & Instrumentation Group, has been with us for over 24 years. He is a member of the RHIC Cryogenics Group. Their mission is to keep RHIC superconducting during beam operations. Also, he is currently working on the ERL Cryogenic System. The new ERL vertical test stand and the triplet vibration testing amongst other tasks. Tom works with a great bunch of people. Before starting his current position Tom was a member of the AGS Instrumentation group where he worked on the g-2 cryogenic system and RHIC Access Controls Group where his work involved the designing of the RHIC PASS system. Tom has one son, whom he is very proud of. Tom, Jr. is a corporate pilot living in Pennsylvania. He had attended Embry-Riddle Aeronautical University and received a B.S. in Aeronautical Science. Tom himself enjoys photography, visiting art galleries, and wandering neighborhoods in the city. Tom is also an adjunct Professor at Dowling College for 10 years and teaches in the School of Business. He has also taught at SUNY Stony Brook.



Fun Time

Hangman!

Topic: Presidents of The United States

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z

Free JavaScripts provided
by [The JavaScript Source](#)



Did You Know

Michiko Minty, Instrumentation Group Leader, has been elected to the executive committee of the APS DPB as a Member-at-Large.

CONGRATULATIONS Michiko!



Don't forget to **SPRING AHEAD** on Saturday night 3/7 to Daylight Savings Time!!

NOTE: BJ's has been rescheduled to Tuesday March 10, 2009 and will be in Berkner Lobby from 11am-2pm. Membership is \$38.03 for 2 cards for 15 months & can be tacked onto existing memberships.

- **ADULT SWIM LESSONS** begin March 4, 2009
- **AMERICAN RED CROSS LIFEGUARD TRAINING** begins March 22, 2009

<http://www.bnl.gov/bera/recreation/fitness.asp>

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**New trips & events** will be available beginning Friday 2/27/09 at the BERA Store. There will be a limit of 4 tickets per person during the first 2 weeks of sales. **NOTE: All tickets are non-refundable.**

## Brooklyn Botanic Garden Hanami Cherry Blossom Festival

**Saturday 4/4/09 1 bus only!**

**\$15pp includes luxury Coach Bus & admission to the gardens**

**The bus will leave Brookhaven Center at 9am and leave the BBG at 4:30pm.**

**<http://www.bbg.org/exp/cherries/index.html>**

## Intrepid Sea, Air & Space Museum

**NY City Saturday May 23, 2009**

**Memorial Day weekend & Fleet Week in NY.**

**\$45 pp includes luxury Coach Bus & admission to the Intrepid**

**Leave BNL at 8am, leave NY city at 4:30pm**

**Limited tickets are still available for :**

## NY International Auto Show at Javits Center

**Saturday, April 18, 2009**

**The coach bus will leave Brookhaven Center at 9am and leave NYC at 4pm. Cost is \$20 per person.**

## Newport Rhode Island April 25 & 26

**Two full days includes ferry from Port Jefferson, Harbor Cruise, Hampton Inn hotel, hot breakfast, tour of 2 Mansions, free time and**

ferry home. \$100 deposit is due upon sign up, with balance paid in full by March 24th. Suggested reading material prior to taking the tour is "Theopholis North" by Thorton Wilder. [For itinerary click here.](#) All tickets are non-refundable.

**NOTE: 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](mailto:pmanning@bnl.gov)**

**You can catch up on all of Eric Forsyth's travels by clicking on his sailing yacht below.**



# March 2009

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|---------|-----------|----------|--------|----------|
|        |        |         |           |          |        |          |

|                                     |                                                                                    |                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                                                           |                                   |                                                                                                 |
|-------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------|
| 1                                   | 2                                                                                  | 3                                                                                                                                  | 4                                                                                                                                                                                                  | 5                                                                                                                                                                                         | 6                                 | 7                                                                                               |
|                                     |                                                                                    | <p>Physics Colloquium "Ab Initio Calculations in Lattice QCD", Zoltan Fodor, Wuppertal U., 3:30pm, Bldg. 510 Large Seminar</p>     | <p>Brookhaven Lecture "447th Lecture", Masahiro Okamura, C-AD, 4pm, Berkner Auditorium</p>                                                                                                         | <p>Particle Physics Seminar "Higgs Coupling Measurements at the LHC - LHC at BNL Seminar Series", Ketevi Assamagan, BNL, 3pm, Bldg. 510 Small Seminar</p>                                 | <p>The Prodigals, 8pm, Center</p> | <p>Educational Competition, Middle School Science Bowl Hydrogen Fuel Cell Car, 9am, Berkner</p> |
| 8                                   | 9                                                                                  | 10                                                                                                                                 | 11                                                                                                                                                                                                 | 12                                                                                                                                                                                        | 13                                | 14                                                                                              |
| <p>Daylight Savings Time Begins</p> | <p>Particle Physics Seminar, Lisa Whitehead, BNL, 3pm, Bldg. 510 Small Seminar</p> | <p>Physics Colloquium "Superstrings and RHIC", Steven Gubser, Princeton U., 3:30pm, Bldg. 510 Large Seminar</p>                    | <p>Jill Tarter, Director of the Center for SETI to give talk on "The Search for Extraterrestrial Intelligence: Fact, Not Fiction", 4pm, Berkner Hall</p>                                           | <p>Particle Physics Seminar "The 5-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Cosmological Interpretation", Elichiro Komatsu, U. TX, 3pm, Bldg. 510 Small Seminar</p> |                                   |                                                                                                 |
| 15                                  | 16                                                                                 | 17                                                                                                                                 | 18                                                                                                                                                                                                 | 19                                                                                                                                                                                        | 20                                | 21                                                                                              |
|                                     |                                                                                    | <p>Physics Colloquium "TBD", Daniel Sperling, U. of CA at Davis, 3:30pm, Bldg. 510 Large Seminar</p> <p><b>Saint Patrick's</b></p> | <p>Pegram Lecture "Controlling the Cell Cycle", Paul Nurse, The Rockefeller U., 11am, Berkner</p> <p>Pegram Lecture "The Great Ideas of Biology", Paul Nurse, The Rockefeller U., 4pm, Berkner</p> | <p>Particle Physics Seminar "Mass Bounds on a Very Light Neutralino (Joint Experimental / Theory Seminar)", Dr. Herbi Dreiner, Bonn U., 3pm, Bldg. 510 Small Seminar</p>                  | <p>Spring Begins</p>              |                                                                                                 |

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| 22 | 23 | 24<br>Physics Colloquium "Dark Matter", Daniel Boyanovsky, U. of Pittsburgh, 3:30pm, Bldg. 510 Large Seminar | 25<br>"Frankenstein" music to be performed at Noon in Berkner | 26<br>Physics Colloquium "Parity Violation in Heavy Ion Collisions", Hosted by Robert Pisarski, 10am, Bldg. 510 Large Seminar | 27 | 28 |
| 29 | 30 | 31                                                                                                           |                                                               |                                                                                                                               |    |    |



# April 2009

| Sunday           | Monday | Tuesday | Wednesday | Thursday                                                                                                                                              | Friday                                                                     | Saturday |
|------------------|--------|---------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------|
|                  |        |         | 1         | 2<br>Particle Physics Seminar "Exploring the Proton Spin in Polarized Proton-Proton Collisions", Werner Vogelsang, BNL, 3pm, Bldg. 510, Small Seminar | 3                                                                          | 4        |
| 5<br>Palm Sunday | 6      | 7       | 8         | 9<br>Passover<br>Particle Physics Seminar "Cosmic Rays Precision Studies with the Satellite-                                                          | 10<br>Good Friday<br>Paul Rishell and Annie Raines, 8pm, Brookhaven Center | 11       |

|                                   |           |                                                                                                                                     |                                                                                                                                                                            |                                                                                                                                                                      |                                                                                                                                      |           |
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|                                   |           |                                                                                                                                     |                                                                                                                                                                            | <b>Borne Apparatus PAMELA", Andrea Vacchi, INFN Trieste, 3pm, Bldg. 510, Small Seminar</b>                                                                           |                                                                                                                                      |           |
| <b>12</b><br><b>Easter Sunday</b> | <b>13</b> | <b>14</b><br><b>Physics Colloquium "TBD" Michel Tytgat, Universite Libre de Bruzelles, Belgium, 3:30pm, Bld.g 510 Large Seminar</b> | <b>15</b><br><b>Brookhaven Lecture "448th Lecture", 4pm, Berkner Auditorium</b>                                                                                            | <b>16</b><br><b>Particle Physics Seminar "Signatures for Dark Matter at the LHC - LHC at BNL Seminar Series", Dr. Neal Weiner, NYU, 3pm, Bldg. 510 Small Seminar</b> | <b>17</b><br><b>Physics Colloquium "Tibetan Buddhism and Science", Donald Lopez, U. of Michigan, 3:30pm, Bldg. 510 Large Seminar</b> | <b>18</b> |
| <b>19</b>                         | <b>20</b> | <b>21</b><br><b>Physics Colloquium "TBD", Leonard Sander, U. of Michigan, 3:30pm, Bldg. 510 Large Seminar</b>                       | <b>22</b><br><b>Earth Day Brookhaven Lecture "449th Lecture: Earth Day Lecture", Alistar Rogers, ESD, 12noon, Berkner Hall</b><br><br><b>Administrative Assistants Day</b> | <b>23</b>                                                                                                                                                            | <b>24</b>                                                                                                                            | <b>25</b> |

|    |    |                                                                                                                                                                            |    |    |  |
|----|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|
| 26 | 27 | 28<br><b>Physics Colloquium<br/>"On the Antikythera Mechanism",<br/>Dr. Alexander Jones, Institute for the Study of the Ancient World, 3:30pm, Bldg. 510 Large Seminar</b> | 29 | 30 |  |
|----|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|



**We Remember USS New York - A ship forged from the steel of the World Trade Center.  
Sept. 11, 2001**

**Editor: Pamela Manning x4072**