

Particle Post July 2011

*"Act as if what
you do makes
a difference.
It does."*

~ William James

Previous issues

Note from the Chair



The RHIC Run 11 came to a very successful end with a record breaking 100 GeV gold-gold run and a short but very efficient gold-gold run at a 13.5 GeV beam energy. June also saw a number of meetings at BNL starting with the Program Advisory Committee meeting that recommended for the next RHIC run 250 GeV and 100 GeV polarized protons, 100 GeV uranium and 100 GeV beam energy copper on gold collisions. It was followed by the AGS/RHIC users meeting with a workshop on the future of RHIC and how best to transition to eRHIC. Finally, the DOE RHIC Science and Technology review took place during the last week of June.

This year three members of C-AD received a prestigious BNL Employee Recognition Award: Vladimir Litvinenko won the Science and Technology Award, Chien-Ih Pai received the Engineering Award and Scott Seberg was a winner of the Brookhaven Award. Congratulations to all!

Starting with this issue of the Particle Post I have also asked Wolfram Fischer, Phil Pile, and Ilan Ben-Zvi to report what's new in their Divisions.

Administration



BNL received the final disbursement of RHIC funding for FY 2011 in June. In total, we received \$125.8M in operating funds. That amount, along with prior year carry forward of \$8.8M provided an operating budget of \$134.6M. If you are wondering why, with all that money, I continue to urge financial restraint, keep reading.

Labor is by far the single largest component of the RHIC operating budget. As of June 30, 2011, C-AD employment, excluding students, totals 428 employees. This reflects an increase of 60 employees, 50 of whom are dedicated to the RHIC program, over the past 3 years. In FY 2011, salary expense for RHIC operations is estimated at \$73M including overhead. Organizational burden labor adds \$6M in labor cost. BNL trade labor and contract labor add additional cost of \$8M to the total. Thus, at \$87M, nearly 65% of the RHIC operating budget is spent on labor.

Space cost is the second largest component of the budget, consuming \$17M in current year operating funds. Other direct costs including waste management, automobile fleet use,

communications and health physics and calibration services consume an additional \$6M in operating funds.

If you have been doing the math along with me, you have arrived at *fixed* expenses of \$110.0M. Ensuring a carry forward to commence FY 2012 operations in advance of a budget FY 2012 takes another \$2M off the table. Machine power for Run 12 is estimated at \$8.5M and thus, only \$14.1M remains for purchased materials and services, including travel.

In summary, the current year budget available for purchases is limited to just 10% of the total funding available. ***Make every purchase count. Buy only what you need to support critical work scope for which purchasing now is necessary to maintain schedule and achieve programmatic milestones.***

Accelerator Division

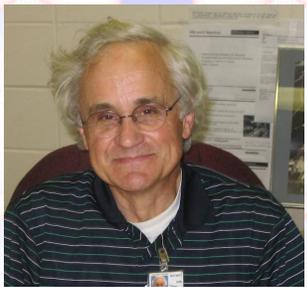


We have just ended RHIC Run-11, which has seen new records for heavy ion and polarized proton luminosities as well as polarization. The summer shut-down is now under way to prepare for Run-12.

For Run-12 a number of running modes are under consideration: polarized protons at 100 GeV and 250 GeV, copper-gold collisions, and uranium-uranium collisions. Also in preparation for Run-12, this year's RHIC Retreat, 20-22 July, will focus on machine reliability and how to address the reduced reliability experienced during this year's polarized proton run. The Retreat close-out session on 22 July, 1:30 to 4:30pm, in Snyder Hall, is open to all.

During the summer the commissioning of our new Electron Beam Ion Source for RHIC will continue. EBIS has already delivered 7 different ion species reliably to NSRL. A major upgrade project for the summer is the completion of the new MCR, with which we will consolidate the 24h shift personnel. The current MCR was renovated the last time more than 20 years ago, and is now often too small for our needs.

Experimental Support & Facilities Division



I'd like to begin with a thank you to our Division Administrative Assistant for the past 7 years, Pam Manning and to welcome Caitlin Scholl as our new Division Assistant. The Collider Department has grown over the past year with the addition of the Medical Isotope Research and Production Program (BLIP to the old-timers) and the creation of the Accelerator R&D Division prompting a reorganization of administrative support services within the Department. As of 1 June Pam's primary responsibility is Administrative Assistant to the new Accelerator R&D Division. Again, thank you Pam!

The STAR and PHENIX experiments completed another year of operation. Although the proton run was somewhat problematic due to RHIC equipment failure, the experiments enjoyed record-breaking luminosities for both protons and heavy ions as well as the benefits of stochastic cooling for the 200 GeV/n gold beams. This year an engineering/test run for a new RHIC experiment was completed. The experiment is called "A_NDY" (A_N for "Analyzing Power" and DY for "Drell-Yan")

and proposes to measure di-electrons resulting from the so-called Drell-Yan process. Parts of the experiment were installed in the 2:00 intersection region previously occupied by the BRAHMS experiment. The tests were successful and construction of the complete experiment is proceeding (although we still need more \$'s!). Primary detector systems for this experiment include a hadron calorimeter previously used by the PHOBOS experiment (from AGS experiment E864) and an electromagnetic calorimeter ("BigCal") borrowed from JLab. In addition, the experiment may use

the PHOBOS split-pole spectrometer magnet during the last year of operation. The plan is to run ANDY through at least 2013 when floor space for the eRHIC Coherent Electron Cooling test becomes an issue. The collaboration is led by Les Bland (BNL) and Hank Crawford (LBL). The C-AD support teams are led by Charlie Folz (Liaison Engineer) and Angelika Dress (Liaison Physicist).

Support for the NSRL and medical isotope production continued throughout the RHIC run with the NSRL facility taking advantage of new beams made possible by the new EBIS pre-injector and the BLIP facility recording a new record integrated luminosity from the LINAC.

Accelerator R&D Division



Pam Manning now is solely dedicated as the Divisional Assistant of the Accelerator R&D Division, and we thank Anna Petway for her help since the division was established.

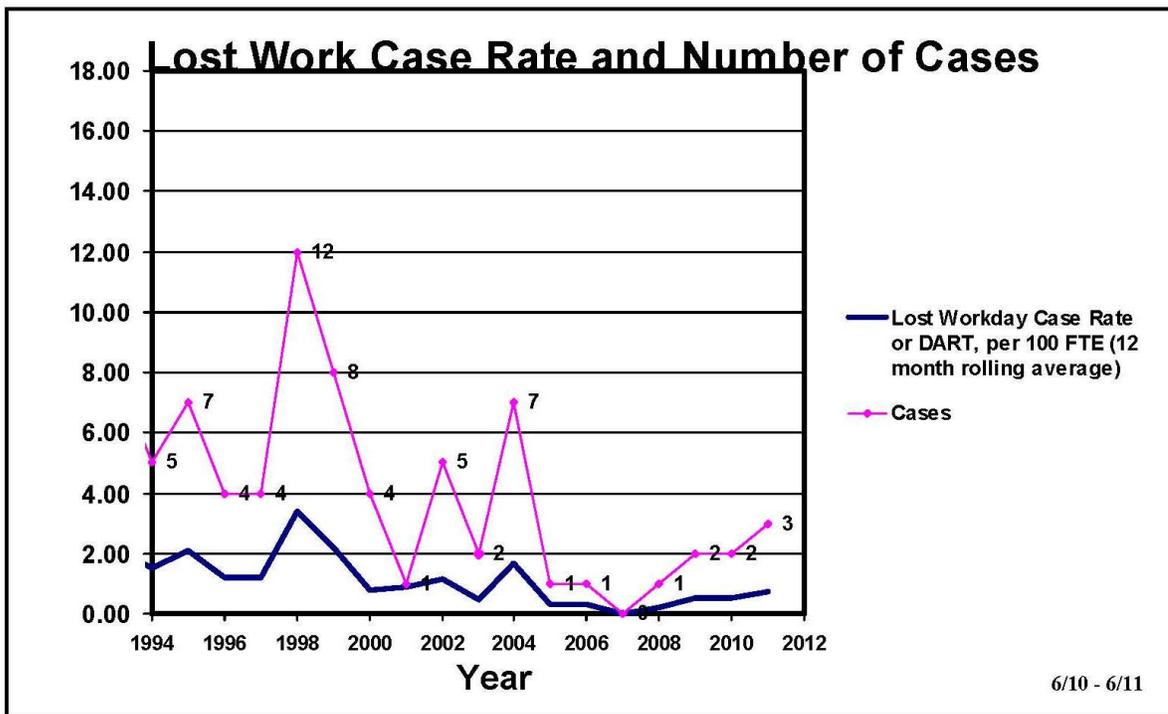
The two superconducting 704 MHz RF guns for the ERL are making progress at Jefferson Laboratory under the watchful eyes of Scott Seberg. We are looking forward to getting them back for installation and tests. The ERL accelerating cavity has gone through another cold test, this time to qualify the LLRF control system. Processing of the twin 500 kW fundamental power couplers of the gun is nearly complete.

The superconducting 56 MHz cavity was visited in Niowave, the Michigan State manufacturer by Gary McIntyre and Chien Pai. The cavity is on schedule for a September delivery. The complex HOM dampers design was finished and reviewed, leading into the procurement phase.

The eRHIC design team is getting ready for a design review by an international committee on August 1-3, to be followed by a cost review.

Many students and post-docs attended the US Particle Accelerator School, and a course on superconducting RF accelerators was taught by Sergey Belomestnykh and Wencan Xu. Steve Webb, a student of Vladimir Litvinenko, got his PhD. Congratulations Dr. Webb!

Safety Stats



C-AD Occupational Injury Statistics

	For Year* 2010	For Year* 2011
First Aid Cases	5	2
Recordable Cases	2	2
Lost Work Cases	1	2

* Calendar Year through 6/11

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

EXCHANGE DATE: FRIDAY, AUGUST 5, 2011

Pete Cirnigliario



Arrivals

Jonathan Fitzsimmons joined the department on June 13. He is working with Leonard Mausner in the BLIP/RRPL Group.

Yury Filarov joined the department as a Guest Collaborator on July 1. He is working with Haixin Huang in the Accelerator Physics Division.

Student Arrivals

Jean Clifford Brutus joined the department on June 15. He is a Co-Op Engineer working with Joe Tuozzolo in the Accelerator Division.

Aubrey Campbell joined the department on June 6. He is a Student Collaborator (SULI) working with Omar Gould in the Preinjector Systems Group.

Jeremy Feinstein joined the department on June 6. He is a Student Collaborator (SULI) working with Larry Hoff in the Controls Systems Group.

Genevieve Gish Allouche joined the department on June 6. She is a Student Collaborator (SULI) working with Masahiro Okamura in the Preinjector Systems Group.

Kendra Jones joined the department on May 31. She is a GEM Fellow working with John Morris in the Controls Systems Group.

Kyle Kulmatycki joined the department on June 6. He is a Student Assistant working with Nick Franco in the Communications & Electronic Support Group.

Alissa Lamberti joined the department on May 31. She is a Student Assistant working with Tony Arno in the Design & Documentation Group.

Athena Marneris joined the department on June 6. She is a Student Collaborator (SULI) working with Charles Theisen in the Controls Systems Group.

Jonathan Pai joined the department on June 6. He is a Student Collaborator (SULI) working with Gary McIntyre in the Collider/SRF Mechanical Group.

Theodoro Samms joined the department on May 31. She is a Co-Op Engineer working with Don Bruno in the Electrical Systems Group.

Amit Shah joined the department on June 6. He is a Student Collaborator (SULI) working with Ted D'Ottavio in the Controls Systems Group.

Francis Smith joined the department on June 6. He is a GEM Fellow working with Masahiro Okamura in the Preinjector Systems Group.

Matthew Steski joined the department on June 6. He is a Student Collaborator (SULI) working with Arthur Pikin in the Preinjector Systems Group.

Brian Streckenbach joined the department on June 6. He is a Co-Op Engineer working with Jon Hock in the Mechanical Systems Group.

Steven Trabocchi joined the department on June 6. He is Student Collaborator (SULI) working with George Mahler in the Mechanical Support Group.

Stephen Tuozzolo joined the department on May 31. He is a Guest Jr. Research Associate working with Ilan Ben-Zvi in the Accelerator R&D Division.

Xinyi Xie joined the department on June 7. He is a Student Collaborator (SULI) working with Kin Yip in the Experimental Support & Facilities Division.

Xiao Xu joined the department on June 6. He is a Student Collaborator (SULI) working with Carl Schultheiss in the Electrical Systems Group.

Don Yu joined the department on June 6. He is a Student Collaborator (SULI) working with Seth Nemesure in the Controls Systems Group.

Vladislav Zakharov joined the department on June 6. He is a Student Collaborator (SULI) working with **Ady Hershcovitch** in the Preinjector Systems Group.

WELCOME!

Leave of Absence

Alfredo Luccio, Accelerator Physics Group will be going on a LOA effective August 8 and is expected to return to work on October 3.

Jordan Ziegler, Machine Operations Group will be going on a LOA effective July 1 and is expected to return to work on November 1.

Departure

Brian Oerter, Control Systems Group will retire on July 27.

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



C-AD Service Awards May

30 years	Michael Mapes
20 years	Tony Arno

June

35 years

Marion Heimerle

10 years

Patrick Talty

Congratulations!



DID YOU KNOW

Rama (LARP) and Sophie Calaga are proud to announce the birth of their daughter Elizabeth, born July 3, 2.9 kg, 51 cm.

Congratulations to the proud parents from all of us at C-AD!!

This message is being sent on behalf of Kevin Brown, Jon Sandberg, and Wolfram Fischer:

On July 27, 2011, Brian Oerter will be retiring after working 37+ years at BNL. For approximately 20 years Brian provided expert leadership of the Controls Hardware group, making substantial contributions to the hardware designs for controls of the Booster and RHIC and numerous smaller projects. He has been a strong mentor of junior staff and has been looked to for advice and assistance outside of the field of controls. For the past two years Brian has served as Deputy Head of the C-AD Controls Systems. He has served for many years as deputy to Jon Sandberg, in the Electrical Systems Section. BNL and C-AD have benefited greatly from Brian's outstanding service. We wish him well as he prepares for retirement.

We are pleased to announce that Ted D'Ottavio has agreed to take on the responsibility as Deputy Head of the C-AD Controls Systems. Ted has been a leader in the Controls Systems for many years with an impressive array of accomplishments. He served for 15 years as Applications Group Leader as well as Deputy Head of the Software Systems groups. He has been a leader in the C-AD Controls Systems since the early days of the RHIC project and has supervised the development and support of a wealth of application software - software that has been critical to the successful operation of RHIC and other C-AD programs.

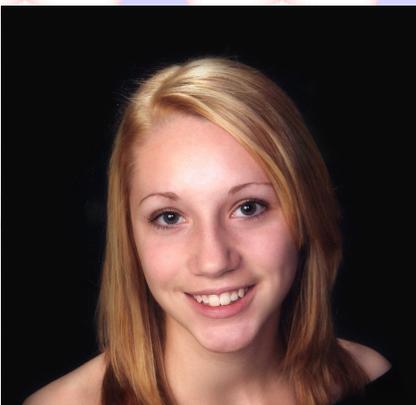
We are also pleased to announce that Charles Theisen has agreed to serve as Deputy Head of C-AD Electrical Systems. Charles will continue to lead the Controls Hardware Groups.

NASA video including comments from Derek Lowenstein, Adam Rusek and Mike Sivertz during an interview on Radiation & Human Space Exploration. Please click [here](#) to see video. Very interesting.

We have learned that Herbert Lutz, former C-AD employee (head of the AGS Instrument Room), passed away May 23.

We held our annual C-AD BBQ on June 21 and fun was had by all. Photos taken by Rippie Bowman.





Victoria Folz, daughter of Charles Folz (Facilities & Experimental Support Group) recently graduated from St. John the Baptist High School. She will be attending the US Merchant Marine Academy at Kings Point starting in early July. Victoria is also one of the recipients of the 2011 BSA Scholarship



Lara Phillips (formerly Hershcovitch) M.D., daughter of Kathy and Ady Hershcovitch (Preinjector Systems Group) graduated from Vanderbilt Medical School where she has started her residency in Emergency Medicine. Lara while still a student trained in Wilderness Medicine in the Smoky Mountains. She also got married 8 days after graduation.



Alissa Lamberti, daughter of Peter and Ann Lamberti (Administration Group) recently received her BA in English from Wheaton College.





Talya Laster, daughter of Millie Wiener (Administration Group) and Jonathan Laster (Controls Systems Group) recently graduated from Plainview-Old Bethpage John F. Kennedy High School. Talya plans on attending University of Maryland where she will have a dual major: Studio Art & Education for a career in Art Education or Art Therapy. Talya was a member of the National Honor Society, Tri-M Music Honor Society, Art Society and was a 2011 BSA Scholarship winner.



Elaine and Derek Lowenstein's grandson Alexander Leif recently graduated from Kindergarten.



Stephanie Ann Piacentino, daughter of Denise and Joseph Piacentino (Controls Systems Group) graduated from Kings Park High School. She will be attending Gettysburg College to major in chemistry and minor in Italian. She will be working towards a career in scientific research. Stephanie is a winner of the 2011 BSA Scholarship. She will be attending a one month study abroad program in Rome (under the SUNY Stony Brook Program) starting June 8. Stephanie has an older sister Patricia and a younger brother Joseph III.



Richard Porqueddu (Mechanical Support Group) girlfriend Anna Sweet (Photon Sciences) just graduated Summa cum laude with a BS in Accounting from MIT. Everyone is so proud of her, it was quite an accomplishment!

CONGRATULATIONS TO ALL!!



FUN TIME

Choose a **famous** person in your mind and then participate in this **20 question game!!**

<http://www.akinator.mobi/>



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.

Summer Memories! Skyline Princess Dinner Cruise around New York City on Friday August 19, 2011.

Leave Brookhaven Center at 4:30pm on Friday Aug 19, 2011 for a 6:30 boarding at the World's Fair Marina.

7pm begin the cruise around NY, Statue of Liberty & Ellis Island, enjoy a gourmet dinner, open bar, dancing, and the sights!
Return to the pier at 11pm, and back to BNL around 12:30pm.

\$110 pp includes luxury bus, driver tip, all taxes & gratuities and shipboard bar & dinner. 21 & over only, Max of 54 on trip.

Rocky Point Concert Series FREE concerts @ St. Anthony's Church parking lot on 25A in the business district @7:30pm:

July 12 Tom Smith's Big Band

July 26 Dr. K's Motown Review

August 9 Desert Highway: Eagles Tribute Band

August 23 Big Shot; Billy Joel Tribute Band

SUMMER TIMES Guide Book: Looking for things to do this summer? This guide offers great family ideas, coupons & info for the area!!

<http://www.northshoreoflongisland.com/SitePage-21765.112114-Times-Supplements.html>

Don't forget ~ you can print Splish Splash discount tickets from home! Go

to <http://www.splishsplaslongisland.com/>

Click on Corporate tickets at the top right, and use the BNL Code 2011106. Discount shows up at the end when you pay be credit card.

\$25 kids & \$31 adults + \$12 parking

Purchase your DUCKS TICKETS, ATLANTIS MARINE World & MOVIE tickets at a discount at the BERA Store in 488!

Farmer's Market in Port Jefferson Village, nearby the Frigate/Steam Room parking lot on Sundays from 9am-1pm. Shop Locally!

NY CITY DO AS YOU PLEASE BUS TRIP Saturday, July 16, 2011

"Do-As-You-Please" BERA bus trip to NYC in the vicinity of Battery Park ~Statue of Liberty ~Ellis Island. The coach bus will leave Brookhaven Center at 7:30am and leave NYC at 5pm. Cost is \$20 per person with children 3 and under that sit on lap are free. No reservations without payment and all tickets are NON-REFUNDABLE. The BERA Store is located in Berkner (Open M-F, 9a-3p).

Saturday, July 23, 2011

Join BERA for a 2 hour **Walking Tour of Greenwich Village**. Cost of \$25 per person includes coach bus transportation, tour, tips for tour guide and bus driver. The bus will leave Brookhaven Center at 8am and leave the Village at 5pm. Lunch is on your own, with plenty of time to site see, shop, etc. No reservations without payment and all tickets are NON-REFUNDABLE. The BERA Store is located in Berkner (Open M-F, 9a-3p).

SOCCER~~~~ Sunday, August 28, 2011

BERA has 30 tickets for the Red Bulls vs Los Angeles Galaxy soccer game at the NJ Soccer Stadium Red Bull Arena. Cost is \$33 per person and the coach bus will leave Brookhaven Center at 4pm. Game time is 7pm and ends by 9:30pm. We have seats in Section 221, Rows 11 and up. No reservations without payment and all tickets are NON-REFUNDABLE. For tickets, go to BERA Store in Berkner (M-F, 9a-3p). <http://www.newyorkredbulls.com>



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

Hi Pam

Rode up to Lake George last week for the annual Americade MC Rally. Had a pleasant visit with Penny and Ray Lo Presti. Their home is just outside of Saratoga Springs.



They have a beautiful wooded property with plenty of room for their motor coach and their very friendly English Lab to run.

Thought you might like to see the photo she sent.

Ciao, Frank and Joanne Dusek

On 5/25/11 8:37 AM, "Richard Witkover" <richwit@optonline.net> wrote:

Hi Pam

Carole and I are still up and kicking. We have been traveling to the more challenging places while we are still able. Along the way we did a few hot air balloon rides and I did a Zip-line in Guatemala. When we get home we put together computer generated multi-media programs about the countries we visited, based on our photographs and local music, and present the shows at local libraries. We have a few coming up in the Lab vicinity:

- July 14 7 PM "Thailand...Bangkok and Beyond" Longwood Public Library Call (631) 924-6400
to register
- August 4 7 PM "Machu Picchu and the Galapagos" Brookhaven Free Library Call (631) 286-1923
to register
- August 16 6 PM "Machu Picchu and the Galapagos" Riverhead Free Library Call (631) 727-32283
to register

The full schedule is on our website:
<http://www.witkover.com/WTA-Show-and-Exhibition-Schedule.htm>

It would be great seeing people from the Lab at the programs. If possible could you put something in the Particle Post about the shows?

We are working on a new one based on our trip to Turkey and when we finish that we have to start one on the trip to India we did in January.

Thanks.
Best Regards
Dick Witkover

You can catch up on all of Eric Forsyth's travels by clicking on his

sailing yacht below.



July 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4  Lab Holiday	5 Lab Holiday	6	7	8	9 Eric Forsyth Bon Voyage, Weeks Marina, 2pm
10	11 Nonproliferation & National Security Colloquium "DOE/ NNSA Response to Radiological Releases from Fukushima Dai- ichi Nuclear Power Plant, S. Musolino, 3:30pm, Berkner	12 Office of Educational Program Event "BNL Summer Exploration Camp 2011", M. Smith- Jones, 8:30am, Bldg. 935	13	14	15	16

17	18	19 Physics Colloquium "Sambamurti Lecture" Paul Sorensen, BNL 3:30pm, Bldg. 555 Hamilton Seminar	20 Are We There Yet? Investing for Retirement in the "New Normal" Economy, 12noon, Berkner, Room B	21	22	23
24 Parent's Day / 31	25 Entrepreneurs' Foundation Workshop Series, 5pm, South Room	26 Physics Colloquium "Future Flavor Physics Program at Fermilab", Brendan Casey, FNAL, 3:30pm, Bldg. 510 Large Seminar	27 BSA Noon Recital, noon Berkner	28 AAP Car Wash 11am to 1pm, Firehouse	29	30



August 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12 2011 DOE Summer Intern Closing Ceremony, 9am Berkner	13
14	15	16	17	18	19	20
21	22	23	24 BSA Noon Recital, noon Berkner	25	26	27
28	29	30	31			



We Remember

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

Sept. 11, 2001

Editor: Pamela Manning x4072