

Particle Post October 2006

Appreciation is a wonderful thing: It makes what is excellent in others belong to us as well. ~Voltaire

To review previous issues

A Note From Our Chairman



The new fiscal year, FY2007, has begun in typical fashion. Congress is unable, again, to pass a budget. This leaves our running schedule in limbo. The expectation is that between the November election and the day before Christmas we will have an answer. I would guess that it would be closer to Christmas than to Thanksgiving. Stay tuned.

The first financial guidance from DOE is to presently operate at a level that is at the Senate Appropriations Committee mark. This leaves operations up \$7M from the FY06 DOE budget, but down \$6M from the total FY06 budget, which included the \$12M support from the Stony Brook Foundation (Jim Simons et al).

There has been a lot of discussion as what species should be run when the budget becomes firm. It looks like we will start off with a gold-gold run followed by either a polarized proton run or a deuteron-gold run. The second run will depend upon the number of available weeks and the status of the RHIC polarized proton upgrades and the STAR silicon vertex detector (SVT) performance. As of the moment we will not start the RHIC cooldown until December 1.

The EBIS Project has received both CD2 and CD3 (construction start) approval and has been included in the DOE financial guidance. Funding level depends upon the FY07 budget. The NASA construction part was begun in FY2006.

Early in October the RHIC spin physics program will be the center of attraction at the SPIN2006 Conference in Kyoto, Japan. Mei Bai will be giving an invited plenary session talk on the RHIC polarized proton performance.

I would like to take this opportunity to acknowledge the continuing excellent safety performance of the C-AD staff. Safety is a constant effort by us all and we cannot slacken off to obtain perfection.

Cyber security is another item that has risen to the highest level on the DOE radar screen. I would like to remind everyone that they must secure access to their computers when you are not in the local area. The use of sleep mode with password login is essential. Anyone who does not have software vulnerabilities promptly corrected will be dropped from the network until the condition has been corrected. Your work area must be locked upon leaving for home.

Administration



The final days of FY 2006 were, thankfully, uneventful. Total C-AD expenditures for the year were \$113M and included \$89.2M for RHIC Operations. An additional \$11.2M in funding provided by the Stony Brook Foundation was spent in support of RHIC Run 6. NSRL expense totaled \$4.3M.

In what has become “business as usual”, we begin the year without a budget and will be funded in accordance with the provisions of a Continuing Resolution (CR). The current CR provides Nuclear Physics funding through November 17, 2006. Our initial guidance is based on the funding provided in the Senate appropriations bill which for RHIC Operations and Experimental Support is \$20M less than the President’s Budget. Our actual funding for the duration of the six week CR is 13.1% of our initial program guidance.

Funding for new initiatives, including the \$7.4M anticipated for EBIS construction, is on hold. EBIS efforts continue on DOE Project Engineering and Design funds allocated in FY 2006 and NASA construction funding of \$1.5M received in August 2006.

It is hoped that the final Energy and Water Bill will restore RHIC funding to the level anticipated. We are, therefore, continuing to plan for a 30 week cryo run with the cool down beginning on December 1st. As we await the final resolution of our FY 2007 budget, you are once again requested to hold off on all but essential purchases.

Machine Update



The present focus of machine operations is on the ongoing NSRL run and the shutdown activities in preparation for the upcoming injectors and RHIC Run-7.

NSRL Run-6c is progressing very well with physics running for the users interleaved with planned machine development activities, including studies on improved Booster slow extraction.

The present uncertainty about the budget and the consequent uncertainty about the final plans for Run-7 make optimal planning for restart of operations more challenging. We are taking advantage of the longer than anticipated shutdown to complete the planned upgrades of RHIC systems - among others the cryogenic system upgrade and the installation of stochastic cooling hardware - and to work on legacy systems in the AGS tunnel. The present schedule has the shutdown completed by November 13, when system testing will start to prepare for Booster and AGS start-up with gold on November 20 and 23, respectively. The start of RHIC cool-down is now set for December 1st, contingent of course on budget resolution.



Last Friday, we got some very good news regarding the EBIS project, when we learned that DOE had just given us both CD-2 and CD-3 approval. CD-2 is basically approval of the project baseline cost and schedule. CD-3 approval requires that the final design for the entire project is ~80% complete, and allows the project to start spending construction funds. To get to this point required a lot of hard work by the scientists, engineers, designers, technicians, and the Administrative Group. We had to produce more than a dozen project documents, went through two external reviews, and had to show the status of our detailed design work. This came on top of our ongoing operation of the prototype EBIS, which continued to run very well and served as good proof that we really knew what we were doing. Everyone who participated in this effort should be congratulated for their work.

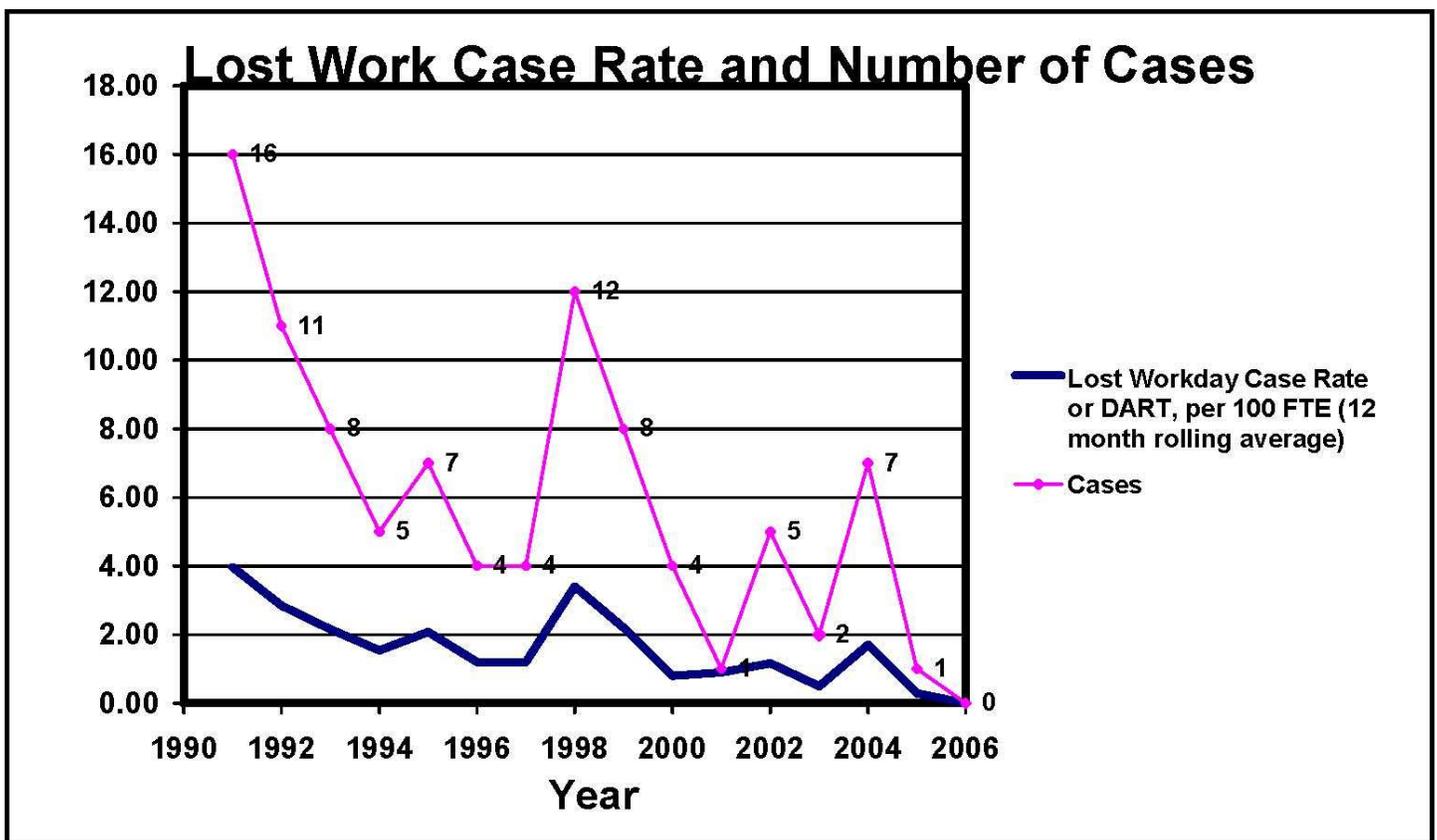
Although we now have CD-3, we still have to wait until the FY'07 budget is passed before we can start spending DOE money on construction. However, NASA had already started to give us money for construction on the project in FY'06, so we have actually been making progress besides just on paper! The 2 meter long superconducting solenoid for the EBIS has already been ordered from ACCEL, and is scheduled for delivery next February. The RFQ accelerator has been ordered from the University of Frankfurt, and we will be having the preliminary design review for the RFQ this month. We are also very close to placing the order for the heavy ion Linac cavity. Finally, a 10" beam port between the end of the H- linac building and the Booster

tunnel was put in this summer, and the vacuum pipe for the (future) EBIS beam now sits there in the port. So we already have a very good start on the construction phase of the project.

These are only some “highlights”, but there is actually a lot more activity taking place in addition. I’ll try and provide updates on a more regular basis in the future.

Jim Alessi

Safety Stats



C-AD Occupational Injury Statistics

For Year* 2005 For Year* 2006

| | | |
|------------------|---|---|
| First Aid Cases | 1 | 0 |
| Recordable Cases | 4 | 4 |
| Lost Work Cases | 1 | 0 |

Lost Work Cases**1****0**

* Calendar Year

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

Friday, October 6, 2006

NEXT EXCHANGE: Friday, NOVEMBER 3, 2006

Pete Cirnigliaro



Arrivals

Takeshi Kanesue, Collaborator working with Jim Alessi started September 12.

Rebecca Paris, joined the Main Control Room working with Peter Ingrassia on September 11.

Zvi Segalov, Collaborator working with Ilan Ben-Zvi started September 27.

Alexander Smirnov, Collaborator working with Ilan Ben-Zvi started September 25.

Jun Tamura, Collaborator working with Jim Alessi started September 5.

Peter Zimmerman, joined the Controls Group working with Bill Venegas on October 1.

Departures

Joseph De Long, RF Group, left the Lab on Friday, September 15.

Transfers

Robert Meier, Design and Documentation transferred to the NSLS October 1.



Get To Know Your Co-Worker

Raymond Atkins of the Access Controls Group has worked at the lab for over 39 years. Ray started his career at BNL as a technician at ISABELLE and then CBA. Now he currently works on Radiation Monitors, commonly called chipmunks. Ray enjoys traveling, skiing, playing golf and has traveled to three continents. He and his wife Donna have two



children: Michelle, 28, is a student at Winthrop College going for her Masters in Student Advising; Matthew, 26, works for Mendenhall Fuel and has served in Iraq for 9 months. Ray has been a volunteer firefighter for 34 years and remains very active.



Robert Sikora has worked for BNL for over 24 years and is currently working in the Instrumentation & Beam Components Group. He has worked on projects such as CBA, AGS, Booster, RHIC, Beam Diagnostics equipment, which included beam position monitors, kickers, pickups, and rf cavities. Bob started at ISABELLE making superconducting wire braid for magnet coils. Bob then transferred to the Vacuum Group during the reorganization to CBA. Bob enjoys spending his off time either fishing, motorcycle riding, and radio control model airplane flying. Bob and his wife Janet (who works in the Clinic) have been married for 24 years and have four children, their oldest daughter Lisa is 22 years old, Emily 20, Bobby 17, and Rachel 15. Their two oldest are attending college and their son is joining the Navy in November 2006. Bob is past Commodore of the Suffolk Boat Club and is currently serving as President of the Radio Control Airplane Club at BERA.





Did You Know?

New Non-Emergency Complaint Number

A new non-emergency police number for residents to call with quality of life complaints has been created for Suffolk County residents: 852-COPS (852-2677).

The new service will free up 911 operators for true emergencies while providing an avenue for residents to have quality of life issues addressed.

Please remember, the 911 calling system should only be used for true emergencies.

BERA Prizes from the Blood Drive Raffle (submitted by Frank Dusek)

Congratulations & Thank You for donating blood! BERA is pleased to sponsor the following prizes:

Vinny Racaniello - 2 tickets to a BERA Trip of choice

Townsend Anschutz - Spring Jacket

Joann Giambalvo - Sweatshirt

Peter Popken - 2 movie tickets

Robert Lockey - key chain



Emergency Vehicle Safety Tips



What should you do if an emergency vehicle approaches you with lights flashing and siren sounding?

1. Speed up to stay in front of the vehicle.
2. Pull over to the side of the road and stop until all emergency vehicles are safely by.
3. Let them pass and follow the vehicle to the scene of the emergency.
4. Pull over and stop **only** if the emergency vehicle is traveling in the same direction as you are.

(The correct answer is #2.)



According to Section 1144 of the Vehicle and Traffic Law:

- When approached (from the front **or** rear) by an emergency vehicle whose lights and siren are activated, the driver of every other vehicle must yield the right of way.
- In yielding the right of way, the driver must immediately pull over to the right hand edge or curb of the roadway, parallel to the roadway, and clear of any intersection. *(In the case of a one-way divided highway, three lanes or more in width, the driver may pull to the left or right edge of the roadway, whichever is closer for an emergency vehicle approaching from **behind** only.)*
- The vehicle shall stop and remain stopped until the emergency vehicle or vehicles have passed, unless otherwise directed by a police officer.

Safety Tip: When you are starting up from a stop after emergency vehicles have passed you, please look carefully behind you for other vehicles turning back into the roadway.



Don't follow that fire truck!

- Following within 200 feet of a fire truck which is responding to an emergency is against the law! (V&T Law, Section 1217)
- Parking within the same block, or if there is no block, within 1,000 feet of a fire truck stopped to answer an alarm is also illegal.



Did you know?

It is illegal to drive over a fire hose which is in use, unless otherwise instructed by the fire officer in command. (V&T Law, Section 1218)

<http://www.nysgtsc.state.ny.us/emer-tip.htm> – Revised:



*We wish all of you born in **OCTOBER**
a happy and healthy year ahead.
Birthday people ONLY click on cake*



C-AD Service Awards September

30 years

John Benjamin

20 years

Douglas Zigrosser

Samuel Mason

Congratulations to ALL!

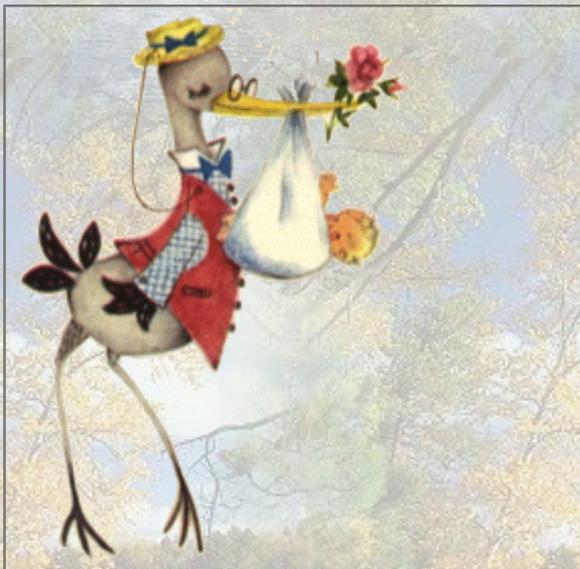


Fun Time

Discover **The Word Game** plays much like Wheel of Fortune. A sequential A-Z image button panel is provided to discover the word easily. You must guess using 5 tries or less. Includes over 200 words! Click [HERE](#) to play.

Logic Puzzle - Bulbs: Imagine you are in a room with 3 switches. In an adjacent room there are 3 bulbs (all are off at the moment) each switch belongs to one bulb. It is impossible to see from one room to another. How can you find out which switch belongs to which bulb, if you may enter the room with the bulbs only once?.

If anyone has any milestones they would like to share in an upcoming issue of our Newsletter please send me the information.



Stork has arrived
New C-AD Babies

Roger Bonati, Booster/AGS Ring P.S. Systems Group and his family are overjoyed at the birth of **Mandy Sue**, born on September 3 weighing 7 lbs 15 oz and is 20.5" long.



Eduard Pozdeyev, Accelerator Physics Group and his wife Dali Giorgobiani are proud to announce the birth of their first child, a daughter, **Vasilisa Sophie** who was born on September 11 and weighed 8 lb 2 oz and is 20.5" long. We wish the new family our Best and sincerest Congratulations.



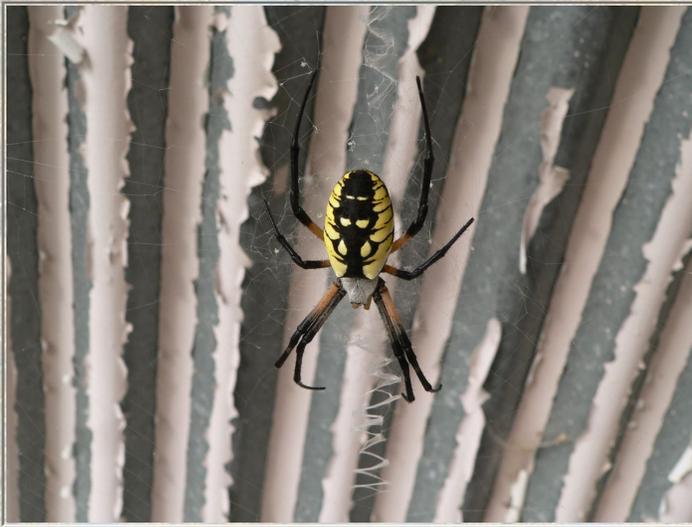
Yugang Tan, Pulsed Power Group and his wife Ying Chang have had their second child. Their baby boy was born on September 21 and weighed 7 lb 12 oz and they name him **Channing Tan**. Yugang and Ying's two year old daughter Selene is very happy to have a little brother.



Congratulations to all of our Proud Papas

Guardians of RHIC Security

James Osterlund calls them "the girls of 11C". They're in the exit passage of Alcove 11C, and each span nearly 2 inches. All spiders bite, but neither of these are as much of a hazard as were the paper wasps that used to nest there. The only real hazard is the human psychology involved.



Black-and-yellow Argiope
RHIC Alcove 11C Exit
(*Argiope auranti*)



Banded Argiope
RHIC Alcove 11C Exit
(*Argiope trifasciata*)

From: Carter, Christine B
Sent: Tuesday, September 19, 2006 12:49 PM
Subject: BERA bus trips for fall & winter 2006 - please post & pass on!

All tickets are available at the BERA Store which is open Monday-Friday 9am-3pm. Tickets are Non-Refundable.

Check the BERA website often for updates on trips, discounts, facility information and more!

- 1) Belmont Saturday, September 23, 2006 A day at the Races!!! Belmont has a gorgeous park with access to the paddocks, saddling area, playground, and more! \$40 per person includes a full Buffet Luncheon, including taxes and gratuities
- 2) NY Botanic Garden Chihuly Exhibit 55 tickets Sun 10/15/06 \$22pp adult/child over 7 years old only. <http://www.nybg.org/> Leave BNL about 9am, leave NY Botanic Garden about 4pm. Includes entry to Chihuly, all conservatories and exhibits, child's wonder garden, Nolan Greenhouses & self guided narrated Tram Tour
- 3) Fishing trip \$50PP captain Bob's Mattituck Saturday, October 28, 2006 Be at the dock by 7:45am, returning at 3:00pm.
- 4) Bodies, The Exhibit and FREE TIME IN NY! on 11/5 Sunday. 45 tickets. Leave BNL 9am, Leave NYC at 4pm. \$23 PP South Street Seaport Exhibition Centre - <http://www.bodiestheexhibition.com/>
- 5) Atlantic City November 18th Sat. Casino to be determined. Prefer Tropicana, Bally, or Taj Mahal.

Depart BNL 8am, depart casino 6 pm. \$20pp Sell to 55 seats ONE BUS ONLY

6) Nutcracker at NYC Ballet Saturday December 2 for a 2pm show. SMALL BUS- 26 tickets/passengers \$80pp

Leave BNL 10am, Leave NYC about 4pm -Third Ring seats

7) Radio City Christmas Spectacular - 55 tickets Sunday December 10 \$75pp 3pm show section 600 rows f-k 9:30am depart BNL, depart after the show at about 5pm

8) NASCAR 9/24 -sold out

9) Octoberfest 10/7 Bear Mountain 2 busses sold out.

New York Botanical Gardens

Come see the beautiful works of Dale Chihuly.



Sunday, October 15, 2006

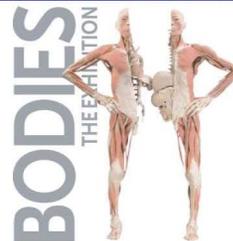
\$22 per person (for ages 7 & up) Tickets can be purchased at the BERA Store, M-F, 9:00a-3:00p. Tickets are Non-Refundable.

Includes entry to Chihuly, all conservatories & exhibits, child's wonder garden, Nolan Greenhouses & self-guided narrated Tram Tour & luxury coach bus transportation to/from BNL.

**** This fabulous exhibit will end on 10/29-don't miss it!! ****
Bus departs BNL Center @ 9:00 am and leaves the Garden @ 4:00 pm.
RAIN OR SHINE... Come prepared for the weather!!

Bodies: The Exhibition

at the
South Street Seaport Exhibition Center



Come celebrate the wonder of the human form
in the World Premier of
BODIES ... The Exhibition —
a phenomenal look at the phenomena
we call the human body.

Tickets are \$23 pp and can be purchased at the BERA Store,

Monday-Friday, 9am-3pm

Tickets are non-refundable.

After Bodies: The Exhibition,
enjoy FREE time to tour downtown Manhattan.

Bus departs BNL Center at 9:30am and returns at 4:30pm.

Join the BERA-Sponsored Trip to



ATLANTIC CITY AND BOARDWALK



on
Saturday, November 18th, 2006

We will be departing from
The Brookhaven Center at 8:00 AM Sharp
in a luxury coach bus to a Casino to be determined. We will depart Atlantic City at 6pm
\$20PP

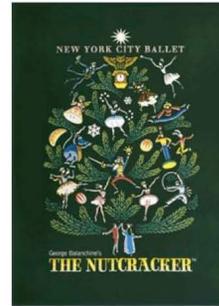
You must be 21 & over to participate.

The cost per person is \$20 and you will receive \$15 back in coins from the casino.

Prepaid reservations will be taken at the BERA Sales Office,
Monday - Friday, 9:00 a.m. - 3:00 p.m.
Ext. 3347

TICKETS ARE NON- REFUNDABLE.

**JOIN BERA for
"The Nutcracker"
at the NYC Ballet**



*This holiday season, come and experience for yourself the incredible magic of
George Balanchine's The Nutcracker™ at New York City Ballet.*

Saturday, December 2, 2006 for a 2pm show.

**\$80 per person includes luxury coach bus and third ring tickets
to the ballet. Limited number of tickets available at the BERA
Store, M-F, 9:00am-3:00pm...don't delay!**

Tickets are Non-refundable

Depart BNL Center at 10am and depart NYC at approximately 4pm.



RADIO CITY CHRISTMAS SHOW

**Sunday, December 10, 2006
\$75 per person
Departs BNL at 9:30 am,
Depart NYC about 5pm**



Enjoy the holiday extravaganza at Radio City Music Hall in New York City. The price includes 2nd mezzanine seats for a 3pm show, round trip bus transportation, and free time in the Rockefeller Center area to shop, browse, or have a snack. Don't wait—buy your tickets now at the BERA Sales Office.



The Radio City Christmas Spectacular, starring the world famous Rockettes, is the #1 show in America and continues to set box office records each year. Since 1933, The Radio City Christmas Spectacular has been a tradition for families living in and visiting the New York area. Today, the tradition is stronger than ever as the show commands an annual audience of over 1 million people. In its eight-week, holiday run, The Christmas Spectacular brings more people to Radio City Music Hall and Rockefeller Center than the most popular show on Broadway does in an entire year. You will be dazzled by the critically acclaimed new scenes and revel in traditional favorites such as "March of the Wooden Soldiers" and "The Living Nativity." This one-of-a-kind 90 minute, all-live extravaganza stars the Rockettes and Santa Claus along with a cast of singers and dancers, a live orchestra, stunning costumes, sets, and high tech special effects.

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



October 2006



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

| | | | | | | |
|---------------------------------|-------------------------|--|----|--------------------|----|---|
| 1 | 2 Yom Kippur | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 Columbus Day | 13 | 14 Santana Tribute Band Milagro in Concert 7:30pm, Berkner |
| 15 | 16 National Boss Day | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 United Nations Day | 25 | 26 | 27 | 28 |
| 29 Daylight Saving Time Ends | 30 | 31  | | | | |



November 2006

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|-------------------|-----------|----------|---------------|---------------------|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 Election Day | 8 | 9 | 10 Holiday | 11 Veteran's Day |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |

| | | | | | | |
|----|----|----|----|---|---------------|----|
| 19 | 20 | 21 | 22 | 23  | 24 Holiday | 25 |
| 26 | 27 | 28 | 29 | 30 | | |



We Remember
Sept. 11, 2001

Editor: Pamela Manning x4072