

INTERACTION POINT



December 6, 2002

Energy Secretary Abraham Visits Lab, Lauds Community

By Tom Mead

On Monday, November 25, U. S. Secretary of Energy Spencer Abraham visited SLAC. Accompanied by his wife and Raymond Orbach, Director of the DOE Office of Science, Abraham addressed an attentive crowd of SLAC staff, users and press that filled the Panofsky Auditorium and overflowed into the Lobby, Breezeway and Orange Room.

This was the Secretary's first visit to SLAC and he specifically asked to speak to the staff. His speech outlined thoughts on the immediate and far-reaching value of fundamental science research.

"I often refer to our national laboratories as America's crown jewels – national assets that make a priceless contribution to national security and to scientific knowledge," Abraham said in the opening minutes. "But beyond that, the research conducted here and at our sister laboratories around the country produces startling technological advances that have applications in every walk of life, and that have helped to make the United States the world leader in science and technology."

While lauding SLAC's overall excellence, Abraham made specific note of BABAR, the GRID development (in which a network of computers functions as one computer), LCLS (the first x-ray free electron laser), GLAST and SLAC's role in establishing the World Wide Web.

He summed up by thanking the SLAC community. "I'd like to leave with a final message of 'Thanks' to those of you who perform this work, on a day to day basis on the front lines, often with inadequate resources I realize,



Photo by Diana Rogers

U.S. Energy Secretary Spencer Abraham addresses the SLAC community

but with unlimited resources in terms of intellectual capability."

Following his 30-minute presentation, Secretary Abraham toured the SLAC site, visiting the linear accelerator, the Next Linear Collider Test Accelerator, the BABAR detector and a structural biology experiment at the SSRL. The structural biology experiment was of special interest to Abraham.

The Secretary was delighted by his tour of the SLAC site and was surprised, and pleased, to note the large number of young people from so many countries working at the Lab.

The enthusiasm of the staff was infectious and Secretary Abraham spoke of his idea to deliver a major policy speech on the importance of fundamental science research and the practical consequences of such research to the nations' economic health and to its security. ●

SLACers Run, Walk & Roll

By Linda DuShane White

On a crisp November day, under a blue sky studded with billowy clouds, about 120 SLAC employees turned out at the Klystron Gallery for the 31st Annual Run, Walk and Roll. Ranging in age from 20 to 70, the enthusiastic group included serious athletes, occasional walkers and everything in between.

The race was divided into three sections: in-line skaters started first, followed by runners and then walkers. Both skaters and runners competed for finishing times; walkers were not timed. After the race Neil Calder (COM) announced the winners in the various categories.

The two overall running winners were Theanne Schiros (ESRD) (women) and Ashley Deacon (SG) (men). Knut Skarpaas (RD) won the in-line skate race with a time of 11:14. He beat his own record from last year by 58 seconds, four times faster than his personal best time.

Skarpaas designed his own custom-made suit. He explained that his



Photo by Kathy Bellevin

Runners McKee and Ranade sprint for the finish line.

suit, containing all the colors of the rainbow, is made of a "secret fabric" that is aerodynamically advantageous. His skates were also custom made. Skarpaas skated four weeks ago in the Long Beach World Cup, and is ranked as a pro in the in-line skating field.

Herman Winick (SSRL) was recognized as the Oldest Running Winner (Age 70). He lobbied successfully for a 70+ category, which was created on the spot. As the only 70-year-old entrant, Calder awarded

(See RUN, page 2)



Photo by Diana Rogers

Some of the winners, from left: Prapat Ranade (Stanford U), Bobby McKee (TD), Theanne Schiros (ESRD), Ashley Deacon (SG), Laura Robinson (non-SLAC), Knut Skarpaas (RD), Warren Focke (Group K) and Jym Clendenin (AD)

Bashing BABAR Brass

By Tom Mead

Secret recipe for straightening a large, thick, brass plate:

- 1 12-ton concrete block
- Assorted supports and packing
- 1 very good crane crew
- 1 extremely good engineer

It is rare amidst the extraordinary precision of a high energy physics laboratory to find an instance where a precise, close-tolerance problem is solved by repeated bashing with a massive 12-ton concrete radiation shielding block. This is a story of that rare instance.

The BABAR detector was built to study the millions of B mesons produced by the PEP-II storage ring. One of the many layers within the 1200-ton detector is the Instrumented Flux Return (IFR).

The forward IFR consists of 18 alternating layers of Resistive Plate Chambers (RPCs) and steel plates. The steel layers absorb pions, ensuring that only muons pass through to detection.



Photo by Gerard Putallaz

The brass-bashing all stars, from left: Scott Jansson (RD), Jason Krebs (EFD), James Krebs (RD), George Bradford (EFD), Robert Moore (EFD)

However, some pions were getting through the IFR and contaminating the data. More effective pion-absorbing material was needed.

It was determined that brass plates installed as banks of 10 parallel plates in three vertical ranks would do the trick. Thirty 2000-pound brass plates, measuring 9' x 6' x 1" each, were rolled to a flatness tolerance of .060 of an inch.

James Krebs (RD), BABAR Chief Mechanical Engineer, and his swing shift team – George Bradford, Verne Coughran, Scott Jansson, Jason Krebs and Robert Moore – removed five

layers of RPCs from the BABAR detector to open up slots for the banks of brass plates. Most of the one-inch-wide brass plates installed relatively easily.

Most, however, was not all. One plate was slightly too thick and bowed 3/8 inches in two dimensions, making it concave. After hours of failed attempts to install the plate, the team began searching for another answer.

The team decided to investigate correcting the plate in-house at IR-2. The force needed to bend the brass plate was 24,000 lb. It was not

(See BABAR, page 2)

The next TIP will be published January 17, 2003

Look for important news, policies and procedures in QuickNews and Announcements.

<http://www.slac.stanford.edu/grp/do/quicknews/>

<http://www.slac.stanford.edu/slac/announce/>

Director's Corner

By Jonathan Dorfan

I recently spent a fascinating hour with Jeremy Webb, editor of *New Scientist* magazine. It was his first visit to SLAC and we discussed the present and future programs of our laboratory. His comments at the end of the interview made me reflect on the changing nature of research at SLAC and, indeed, in big science worldwide.

What struck Webb is the strong international theme and the large involvement of international scientists in our research programs. He had always considered SLAC to be an American laboratory providing research opportunities for the domestic physics community – what he found was a laboratory that is a leader in promoting and supporting international participation in large-scale science.

It is true that there has been a substantial transition in numbers and nationalities of SLAC researchers over the last 10 years. The number of researchers using our facilities – “users” as we affectionately call them – has increased from 900 in 1993 to over 3000 in 2001, with over 1300 coming from overseas. Scientists from more than 20 nations come to SLAC to carry out their research. BABAR is a truly international experiment and probably has the largest foreign participation of any high energy physics experiment in the U.S. In the same vein, the Gamma Ray Large Area Telescope (GLAST) has participating institutes from five nations.

This internationalization is not limited to the astro- and high energy physics programs, but also characterizes the way Synchrotron Radiation research has developed at SLAC. This year, 500 SSRL users came from overseas. With next year's installation of the SPEAR3 upgrade to our light source, foreign participation will likely grow even larger. Another example of this trend is the recent signing of a Memorandum of Understanding between DESY and SSRL for mutual support in the research and development for x-ray free electron lasers.

The advantages of international collaboration in fundamental research are clear. Pooling resources, and more importantly brainpower, is the most efficient and responsible way to succeed in big science projects. Realizing a linear collider project presents special challenges that require the international community to invent a new paradigm for worldwide science collaboration. This accelerator complex and its associated detectors will be a fully international facility from its inception, one without ownership by any one nation or region.

SLAC is playing a leading role in working with its partners in the U.S., Europe and Asia and with governments worldwide to develop this paradigm. As the only laboratory to have built and operated a linear collider, we also have a lot to offer in the finalization of the machine design. Coordination of this activity is the responsibility of the International Committee of Future Accelerators (ICFA), a group of experts from all regions of the world who meet several times each year. In October, I was honored to be named as the next chairman of ICFA, taking over this role from Hirohiko Sugawara (KEK) in January 2003.

SLAC is at the forefront of the international cooperation in discovery-oriented science, which particularly befits a school of Stanford University, whose students are drawn from all nations of the world and whose renown is established worldwide.

As you see on the front page, Secretary Abraham visited SLAC on November 25. It was an excellent visit. He particularly enjoyed the tour, and he, like Webb, was struck by the high numbers of young researchers from overseas working at SLAC. He asked me to pass on his thanks to all of the SLAC staff for a memorable visit – he especially noted the excitement and commitment you all exude.

Winter Wonderland Holiday Party

By Erin Smith

It's that time of year again, when the SLAC community is invited to join in the festivities for a free lunch, good company, great entertainment and a raffle at the annual SLAC Holiday Party.

Lunch will be served in the cafeteria dining area starting at 11:30 a.m. Seating will be available in a tent behind the cafeteria. This year, Jeff Machado's Elegant Cuisine will be catering the event with a buffet style menu to include oven roasted turkey, smoked ham with orange sauce, and vegetarian ravioli.

The party will feature lively jazz music played by the Leonard Webb

Quartet in the big tent. Also, starting at 11:30 a.m. in the Auditorium there will be a showing of “Snowball Express,” starring Dean Jones and Nancy Olsen.

At about 1 p.m. the raffle will commence. Don't forget your ticket! This year's prizes include: boxes of See's candies, gift certificates to the Stanford Mall, and other great gifts. Human Resources will send out invitations with raffle tickets by December 16. A few extras will be made available for those who forget to bring their own.

Be sure not to miss the fun at the Winter Wonderland Holiday Party on Wednesday, December 18. ●



Photo by Diana Rogers

BABAR

(continued from page 1)

obvious how to apply such a force to the plate without much investment in additional tooling. An unusual answer was needed. It was spotted in the hulking form of a 12-ton block of concrete that was being used as a massive table inside the detector hall.

The team placed eight-inch box beams 48 inches apart, built shim stacks between them, laid the plate down across the beams, convex side up, and used the 50-ton overhead crane to lower the concrete block down on the plate. This cycle was repeated 12 times, removing a lower shim each time to allow the plate to bow further down, lifting the block and letting the plate spring back. “It was so crude it was great,” said Krebs. “It was the most fun I had during this shutdown.” At the end of the 12th cycle the plate was declared flat.

Still, inserting the plate into the slot did require some encouragement. So the team rounded the plates' edges, liberally slathered the plates with pink, liquid soap from the nearby bathroom dispensers, and eased it into the slot.

The entire ad hoc flattening and installation process took four hours and resulted in an immediate, on-site, low-cost solution, a plate of the specified flatness, and adherence to a vital laboratory schedule.

“I really admired the way Krebs went about it,” said physicist John Fry (BABAR). “The morale of that crane team was tremendous. Quite apart from all the skill and hard work, it was also just tremendous fun.”

Krebs echoed that thought, saying, “These guys are the best crew I have ever had. It is a privilege to work with them. I don't think I would have attempted this solution without them.”

Thanks to teamwork and ingenuity, the brass plates are now in their assigned slots and the pion infiltration problem has been solved. ●

Fermilab Collaboration Saluted on SLAC Doors

By Tom Mead

In a graphic display of collaboration, one building at SLAC is “flying” the Fermilab colors. Emblazoned on the west-end double doors of Building 128 in the Research Yard next to End Station B gleams the recently painted orange-circle-on-blue-field Fermilab graphic. This pattern is seen on the majority of Fermilab's research buildings.

The impetus for this graphic display is the fact that Fermilab is a strong partner in the linear collider program. They are currently building accelerator structures that will be installed in the NLCTA. SLAC, in turn, is a strong partner to Fermilab, as are other HEP labs around the world. SLAC recently sent a team consisting of Marc Ross (NLC), Jim Sebek (ACP) and Till Straumann (ACP) to Fermilab to lend a hand in the effort to get their Tevatron accelerator operating closer to capacity.

Run

(continued from page 1)

Winick the winner in this category.

It was the first race for walker Concepcion Zelaya (RD). “It was great,” she said. “Very nice camaraderie. We were in groups. I am a very big advocate of walking for overall health. At first I had to make myself do it, now I really enjoy it.”

Others have run the race numerous times. “This is my 7th consecutive SLAC Run,” said Rich Malec (TD). “I've completed four Bay to Breakers. My goal is to complete 25 consecutive races of each.”

For a complete list of winners as well as more details about the race, see: <http://www-project.slac.stanford.edu/slacrace/> ●



Knut Skarpaas (RD) wears a custom-made, aerodynamic suit.

Remember the Sharing and Giving Drive Dates:

Family Giving Tree – ends 12/11
Second Harvest – ends 12/18
Toys for Kids – ends 12/20



NLC summer student Matthew Sorgenfrei paints the door of Bldg. 128

NLC summer student Matthew Sorgenfrei, a recent graduate of Gunn High School, did the painting in July. Sorgenfrei got his job at SLAC through his participation in the Robotics Club program, which is supported, in part, by SLAC.

Bldg. 128 is now referred to as “Fermilab West” as a small nod to the paint job and to the fact that the continued support of the multilab collaboration is critical to the success of the project. While only paint on a door, it is also a strong statement about the camaraderie of the collaboration. ●

SLAC: The Movie Gets Animated Response

By Miriam Boon

Guests were wowed when "SLAC: The Movie" played for the first time on the day of the 40th Anniversary Celebration in early October. Since then, over 200 people have viewed the 13-minute video on SLAC's Web site.

From grainy historical footage and photographs showing the birth of the lab to 3-D animation taking us all the way from outer space down to the collision of subatomic particles, the video weaves an exciting path through the lab's history. The movie combines these elements with animation and the colorful photographs award-winning international photographer Peter Ginter took this past summer. "The archive footage was found and digitized in mid-September. We didn't know it existed until then," said Chip Dalby (TIS), who led development of the video. "It was a fortunate find for us and added a great deal of character and history to the project."

As with so many efforts at SLAC, making the video was a collaborative project. Last spring, the 40th Anniversary Committee asked Jean Deken (TIS) to begin assembling pictures and conducting research for the 40th Anniversary photo history book. In September, Neil Calder (COM) asked Dalby, who art directed and designed the book, to make a slide show from materials Deken had assembled. Dalby suggested doing a video instead, and Calder approved it on the spot. "I thought it was a great idea," Calder said.

Terry Anderson and Michael Hyde (both of TIS) had previously been working on high-quality animations about the Lab and SLAC's research projects for use in education, research and public relations. When this group got together to discuss the video Dalby had begun work on, the idea of incorporating the animation was an immediate winner.

"By starting with the sepia-toned old footage complete with natural degradation, traveling through the still shots of people here and now, then moving onto the animation and Peter Ginter's photos, the movie spans past, present and future," said Hyde. "The animation is futuristic, starting in space and zooming into the subatomic level using a hyper-real color palette. Peter Ginter's photographs give a similar effect, using time-lapse photography and an incredible palette to create a surreal feeling."

"SLAC: The Movie" can be seen at: <http://www-project.slac.stanford.edu/streaming-media/events/40th/Celebration.html>

The animations featured in this video are available for use by anyone at the lab from Scientific Arts Media: <http://www.slac.stanford.edu/grp/techpubs/sciarts.html>



Images from the animation take the viewer from space (shown top) to the Bay Area and down into the linac (shown bottom)

Engineers Tour SLAC

By Nina Stolar

Stanford Engineering Alumni

The Stanford School of Engineering offered Lab tours for their alumni and received an overwhelming response! Over 100 visiting engineers were hosted by Neil Calder (COM), Jack Fry (ESH), Michael "Mo" Olson (EFD) and Steve Sekula (BABAR). Tours in December and January will introduce more alums to our scientific facilities.

Never been on a SLAC Tour?

To join a public tour, call the Public Affairs Office (ext. 2204, pao@slac.stanford.edu). To reserve space on a New Employee Orientation tour (generally first Thursday monthly) please contact Erin Smith in Human Resources (ext. 2265, erin@slac.stanford.edu).

If you are interested in guiding Laboratory tours, please contact Nina Adelman Stolar (ext. 2282, nina@slac.stanford.edu).



IEEE Industry Applications Society

About 30 members of IEEE's Oakland East Bay Industry Applications Society came for a behind the scenes tour of the Master Substation. Facility engineering coordinator Forrest Brown (pictured) and Frank Brenkus (both of SEM) conducted a technical tour of the substation, which features a Metalclad SF6 switchgear located indoors that stands almost three stories high.

Diwali: A Festival of Lights

By Kausalya Ganapathi

The SLAC Asian Indian community celebrated Diwali (a festival of lights) on November 4 in the Beige Room during lunch hour. An enthusiastic group of around 25 Indians participated in a potluck by contributing sumptuous Indian food. This was a first time effort to bring the SLAC Indian community together.

Diwali is a festival of lights symbolizing the lifting of spiritual darkness. This festival commemorates Lord Rama's return to Ayodhya after completion of his 14-year exile and after his victory over the evil demon king Ravana. Lord Rama is the reincarnation of Vishnu, who is one of the Trinities. The other two are Brahma (the Creator) and Shiva (the Destroyer). The goddess Lakshmi (consort of Vishnu) who is the symbol of wealth and prosperity is also worshipped on this day.

In southern India, this festival has another legend connected with it, in which Lord Krishna (also an incarnation of Lord Vishnu), the celestial cowherd, vanquishes the demon Narakasura. New clothes are bought and family members and relatives gather together to offer prayers. Hindus rise earlier than usual, rub perfumed oil on their heads and bodies before bathing, and then have a large breakfast with relatives and friends. Lunch is a feast with special sweet dishes and traditional cuisine. Oil lamps illuminate the house in the evening and firework displays are common all across the country.

Diwali celebrations are not the same in the U.S., where the celebrations



Photo by Vinod Bhardwaj

Celebrants, from left: Vinod Bharadwaj (AD), Mukul Agrawal (ARDA), Tina Datu (ACC), Ram Kanth Chunduri (BAS) and Brijesh Bhatnagar (MD)

include family get-togethers, playing games, eating sweets and generally having fun. In India, housewives, moms and grandmothers spend days making a variety of sweets and savories for the occasion. However, some Indians in the U.S. are diet conscious and forgo making a lot of sweets because they are high in calories. In Weight Watchers' terms, some of them are 20 points per piece!

Instead of complaining about what we don't have, at SLAC we came up with the plan of celebrating the function, as we would back in India. We brought memories from our days in India, set the ambiance for the occasion and had a great time with a low cal lunch.

For information on next year's Diwali Celebration, contact Kausalya Ganapathi, ext. 4305

Diabetes Walk a Success

By Sandra Czech

Congratulations to the generous members of the SLAC community who helped raise over \$2,500 for the fight to cure diabetes.

The annual Walk to Cure Diabetes took place at Mountain View's Shoreline Park on Sunday, October 27. The Walk benefits the Juvenile Diabetes Research Foundation. Before

whose mother died of complications of diabetes and whose nephew was diagnosed with the disease shortly after, first heard about the event via an e-mail Wethington sent out. "I wanted to be part of the walk," Burton said. "I wanted to raise money, I thought of my mother and my nephew. I started talking with other members of my family and realized that I had more family members with diabetes."



Photo courtesy of Pauline Wethington

Volunteers celebrate a beautiful morning of walking to cure diabetes.

and during the three-mile-long walk, participants were provided with drinks, snacks and energetic music.

Pauline Wethington (HR), a key coordinator of this event, welcomed the opportunity to have SLAC partner with Stanford University for this event. "Without the help and support of SLAC employees, directors, and management, who participated as team leaders, walkers and/or donated toward this great cause, we could not have reached beyond Stanford University's goal of over \$20,000."

For one walker, the event had special meaning. Carolyn Burton (ESD),

The National Diabetes Statistics show that one million people aged 20 and older are diagnosed with diabetes. A full 13 percent of all African Americans and 10.2 percent of Hispanic/Latino Americans have this disease. Statistics also show that American Indians and Alaska Natives are 2.6 times more likely to have diabetes than Anglo Americans and for Asian Americans/Pacific Islanders, ages 45 to 64, diabetes ranks as the fifth highest cause of death.

For more information on the Walk, see: <http://haas-fmp.stanford.edu/contact/WalktoCureDiabetes.html>

POLICIES AND PROCEDURES UPDATE

Important Reminder — Year-End Time and Effort Sheets

If You are Planning a Vacation During the December Holidays

Time and effort sheets are due to Payroll by noon on Friday, December 20, if you are taking time off during the end of the year.

If You are Working on 12/30 or 12/31

Payroll will be open on December 30 and 31. If you are working on either of these days, please make sure to turn in your sheets before noon on Tuesday, December 31.

Special Arrangements for MFD and SEM

Special arrangements have been made for MFD and SEM. For these groups, please make sure you and your supervisor agree on how your time will get recorded and when.

Contact: Ellen Remerata, Payroll, ext. 5194, ellen@slac.stanford.edu

SLAC Helps "Green the Government"

The DOE and its contractors (including SLAC) are required to adhere to Executive Order (EO) 13101, "Greening the Government Through Waste Prevention, Recycling and Federal Acquisition," which went into effect in Fiscal Year 2000 (FY00).

SLAC Did a Great Job with Recycled Paper Purchases

Eighty-five percent of the paper purchases made through Corporate Express in FY02 was for recycled content paper. This is great!

Please Use Recycled Toner/Inkjet Cartridges

Unfortunately, our record for purchasing recycled laser toner and inkjet cartridges for copiers and printers is not as good. Of the

thousands of dollars SLAC paid for toner/inkjet cartridges in FY02, SLAC spent only three percent of that on remanufactured/recycled cartridges.

Please order your laser toner and inkjet cartridges with remanufactured/recycled content whenever possible.

Corporate Express has direct equivalents to many of the inkjet and toner cartridges we use here at SLAC. For example, by using the recycled equivalent of cartridge #C4129X for the HP LaserJet 5000 (Corporate Express order #EXP70020), you can save a lot of money. This is ~\$80 cheaper — a significant cost savings in this time of restricted budgets.

Many More Items Have Recycled Content

Items such as calendars, folders, notepads, post-its, desktop accessories and trash cans have recycled content equivalents that can be purchased for a less expensive price. When purchasing from Corporate Express, look for the "Recycle" icon appearing as a little green tree adjacent to the item.

Thank you for buying recycled or recycled content products, and please continue purchasing recycled products whenever possible.

Contact: Pamela Wright-Brunache, SLAC Purchasing, ext. 2440, pdwb@slac.stanford.edu

Correction: TIP (Nov. 15)

The Policies and Procedures section listed an incorrect address for stations that can be used for government vehicles. The correct address is:

Ladera Chevron
104 Le Mesa Drive (Alpine Road)
Portola Valley
650/854-4504

Changes in Purchase Requisitions Beginning in Mid-December

On December 16, the Purchasing Department will make three important changes to the Purchase Requisitions process. These changes will make it easier for Operators to enter requisitions, and better utilize the e-mail communication and electronic documentation services in PeopleSoft.

1. Auto-Numbering System

Requisitions will be auto-numbered by the PeopleSoft system. You will no longer enter a Requisition ID, or be required to use a number from a preprinted requisition form. The Requisition ID will be assigned sequentially beginning with 100001 and will no longer begin with a letter. Blanket Orders will no longer begin with 'B' but will use a BPO flag entered into the Requisition panel. Requisition forms may be printed from the Purchasing Web page as you need them.

2. Requisition Contact Information

Requestors can now indicate a specific Requisition Contact person to receive questions about the order, as well as e-mail notification when the Contact is other than the requestor.

3. Supplemental Funding (Modification) to a Purchase Order

Supplemental Funding to a Purchase Order greater than \$1000 will be authorized by use of a Requisition rather than the memo currently used. Budget and CFO approvals will be routed by the PeopleSoft system and e-mail will keep you informed of the approval status. The supplemental increase will be reflected in your commitments and funding authorization will be better supported because the authorizing

document (the supplemental funding requisition) will be firmly linked to the Purchase Order.

This is the only way modifications to purchase orders can be incorporated into the PeopleSoft Financial System after December 16.

Training

Purchasing Buyers will be trained in these new processes during the first week of December.

PeopleSoft Requisition Operators will be trained on these changes during the second week of December.

We look forward to making these improvements and are sure you will appreciate these features.

Contact: Tom Murphy, ext. 3582, smurf@slac.stanford.edu

Toys for Kids Drive is Now Underway

The yearly Palo Alto Fire Department Toys For Kids drive is underway now. The toys are distributed to local community groups with needy clients.

This year's drive began on November 18 and will end on Friday, December 20.

You can participate by bringing an unwrapped toy to the on-site fire station (Bldg. 82).

The fire station is staffed 24 hours a day and the firefighters would love to have as many toys donated as possible.

For more information, contact: Don Loquiao, Battalion Chief, ext. 3179

The Interaction Point

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Send submissions to tip@slac.stanford.edu, or mail to TIP Editor, MS 58, Stanford Linear Accelerator Center, 2575 Sand Hill Road, Menlo Park, CA 94025.

TIP is available online at: <http://www2.slac.stanford.edu/tip/>

Upcoming Events

Thursday and Friday, Dec. 6-7

Redwood Rooms
SLAC MEETING
Jonathan Dorfan, SLAC
Scientific Policy Committee Meeting

Monday, Dec. 9 to Friday, Dec. 13

Panofsky Auditorium
SLAC PHYSICS MEETING
A.J. Stewart Smith, Princeton U
Barbara Barrera, SLAC
BaBar Detector Collaboration Meeting

Tuesday, Dec. 10, 12:30 p.m.

Orange Room
SLAC EXPERIMENTAL SEMINAR
Donald York, U of Chicago
"Sloan Digital Sky Survey"

Wednesday, Dec. 11, 12:30 p.m.

Panofsky Auditorium
SLAC EXPERIMENTAL SEMINAR
Dan Pirjol, Johns Hopkins U
"Topics in Hadronic B Decays"

Monday, Dec. 16, 4:15 p.m.

(Refreshments-3:45)
Panofsky Auditorium
SLAC DEPARTMENTAL COLLOQUIUM
Robert Jaffe, MIT
"The Casimir Effect: Theory and Practice"

Monday, Jan. 27, 4:15 p.m.

(Refreshments-3:45)
Panofsky Auditorium
SLAC DEPARTMENTAL COLLOQUIUM
Peter Bender, U of Colorado
"Massive Black Holes and the LISA Gravitational Wave Mission"

Please send additions to: seminars@slac.stanford.edu

For complete event listings, see: <http://www.slac.stanford.edu/grp/pao/seminar.html>

MILESTONES

Honors

O'Hara, Laura (TIS), accepted into the Academy of Certified Archivists, Class of 2002

Ratcliff, Blair (Group B), elected Fellow of the Council of the American Physical Society at Nov. 2002 meeting

Service Awards

25 Years

Robinson, Roosevelt (SEM), 12/1/02
Phizackerley, R. Paul (ESRD), 12/1/02

15 Years

Troxel, Curtis (ESRD), 12/28/02

5 Years

Dell'Orco, Domenico (SPR), 12/1/02
Vinetskiy, Vladimir (ESRD), 12/1/02
Leung, David (SCS), 12/16/02

To submit a Milestone, see: <http://www.slac.stanford.edu/pubs/tip/milestoneindex.html>

See Awards and Honors at: <http://www.slac.stanford.edu/slac/award/>