

# INTERACTION POINT

January 21, 2005

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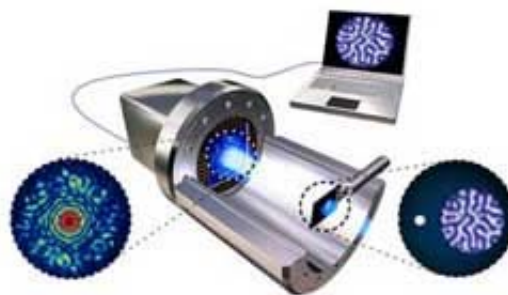
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## New Imaging Technique Opens Door to Nanoscale World

*By Heather Rock Woods*

Researchers at SSRL and the German laboratory Berliner



Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung (BESSY) have crafted a technique to take X-ray images that reveal tiny variations and lightning-quick changes in materials a thousand times smaller than the thickness of a strand of hair.

Their work merited the cover of the December 16 issue of Nature magazine. The technique—lensless X-ray holography—will be valuable for researchers working with the world's first X-ray free electron laser, the Linac Coherent Light Source (LCLS), slated to begin experiments at SLAC in 2009.

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## EFD and SEM Merge to Form New Conventional and Experimental Facilities

## Quantum Diaries Chronicles the Global Year of Physics

*By Katherine Bellevin*

In collaboration with the world's particle physics laboratories, SLAC has launched Quantum Diaries, a Web site that will follow the lives of physicists worldwide as they live the 2005 World Year of Physics. In their own words, in blogs, photos and video clips and in half a dozen languages, Quantum Diarists will give readers a real-time picture of the lives of 21st-century scientists.

Four SLAC physicists—Stephon Alexander (THP), Caolionn O'Connell (ARDB), Bryan Dahmes (BABAR) and Jose Ocariz (BABAR)—are participating in this project. They are recording their experiences, thoughts, impressions, triumphs and disappointments in a 'blog', which is short for weblog, or a Web-based log. Check in with the team often as they share their experiences at the Lab and in their daily lives.

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## Science Magazine Selects SSRL Research as a

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## **Department**

*By Vickee Flynn and Nina Stolar*



into a new group reporting to the Director's Office. The new department reports to Steve Williams, named special assistant to the Director.

John Weisend was named Department Head of the new group, and he clarified the impact of the changes with this merger. "Our prime mission is to provide safe, well planned and efficient support for experiments and facilities at the Laboratory," Weisend said.

[See whole story...](#)

## **New Disaster Relief Organization Formed at SLAC**

*By Ziba Mahdavi*

Disaster Relief at SLAC (DRAS) was conceived on January 4, in response to the need to support members of the SLAC community to provide relief to communities devastated by the south Asian tsunami that occurred on December 26, 2004.

This grassroots organization is structured to approve and

## **Breakthrough**

*By Cathy Knotts*

In late December, Science Magazine listed its top 10 breakthroughs in 2004. In eighth place was SSRL's research on the structure of water. A team of researchers, led by scientists at SSRL and Stockholm University, found that water molecules clump much more loosely than previously thought. This work revealed detailed information about the nearest neighbor coordination geometry in liquid water and has implications for multiple fields from chemistry to atmospheric sciences.

[See whole story...](#)

## **Wunderlich Joins DOE Stanford Site Office**

*By Linda DuShane White*

The New Year brought major changes in the DOE Stanford Site Office (SSO) at SLAC. We bid farewell to Site Manager John Muhlestein, who will work as a Special Advisor to Milton Johnson, Chief Operating Officer in the Office of Science (SC) in Washington, D.C. Muhlestein began his new

raise funds for disaster relief projects that are coordinated by a member of the SLAC community. DRAS is an all-volunteer organization that will ensure that 100 percent of the funds collected for a given project will go to that specific project.

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assignment in early January.

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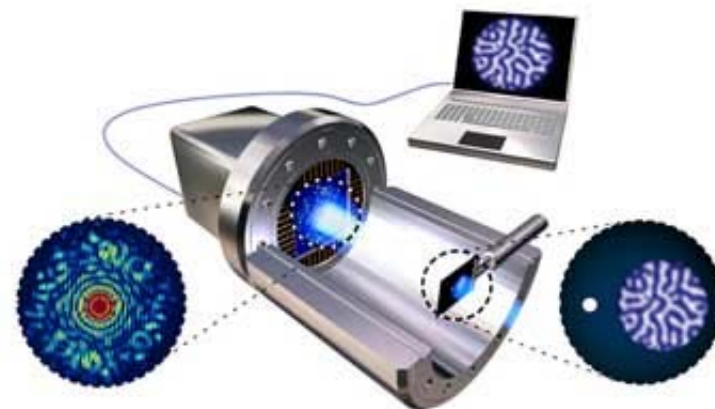
Researchers at SSRL and the German laboratory Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung (BESSY) have crafted a technique to take X-ray images that reveal tiny variations and lightning-quick changes in materials a thousand times smaller than the thickness of a strand of hair.

Their work merited the cover of the December 16 issue of Nature magazine. The technique—lensless X-ray holography—will be valuable for researchers working with the world's first X-ray free electron laser, the Linac Coherent Light Source (LCLS), slated to begin experiments at SLAC in 2009.

"We have demonstrated the first direct imaging technique that will work with LCLS, opening the door for taking pictures of ultra-fast changes in the collective behavior of ensembles of atoms and molecules," said Jan Luening (SSRL). He and Stefan Eisebitt (BESSY) headed development of the technique.

"Our approach is simple and it can be applied to a wide variety of samples from thin films to small structures coming from material science, biology or chemistry," Luening said.

State-of-the-art light sources such as BESSY and SPEAR3 achieve lensless imaging by filtering light so that the only remaining X-rays are 'coherent'—that is, all the X-ray light waves are in phase with each other (each wave is peaking at the same time) and moving in the same direction like a marching band in step. Because it uses no lenses, the technique has the potential to take direct images with 10 times better spatial resolution than can be achieved with current X-ray lenses and bring even finer details into view. Another advantage to the technique is that it entails much simpler alignment and sample handling than established X-ray microscopy methods do.



*Coherent x-rays shine through a cobalt-platinum sample and a reference hole (right, foreground). The detector records the resulting hologram pattern (center and left). A computer (background) applies a mathematical Fourier transformation to the hologram to obtain a complete image.*  
(Image by Michael Hyde)

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Lensless imaging will be especially powerful at LCLS and other future X-ray free electron lasers being planned in Germany and other countries. X-ray free electron lasers will be 10 billion times brighter than today's brightest synchrotron sources. And because laser light is inherently coherent, X-ray filtering is unnecessary. In addition, LCLS X-ray pulses will be extremely short—lasting only femtoseconds, mere quadrillionths of a second.

This impressive combination of properties not only makes LCLS a revolutionary machine, it makes lensless imaging ideally suited for obtaining 'single shot' images of rapid, intricate changes in nanometer-sized materials. Rather than billions of pulses, just one pulse of X-ray light will be needed to capture a clear picture of the action at that moment in time.

Scientists could take a series of such images to create a 'movie' of the changes, analogous to time-lapse photography for slow processes such as a flower coming into bloom. A brand new capability will enable researchers to study the nonrepeatable aspects of biological, physical and chemical processes occurring on dizzyingly fast time scales. A few areas of investigation include proteins attaching to each other step by step and polymer chains assembling into ordered clusters.

**Holography is the Key**

The technique works by shining a coherent beam of X-ray light through two adjacent holes: one containing the sample to be studied, the other a tiny 'reference' hole. The scattered light from both holes overlays to form a single, holographic diffraction pattern. Holography not only maps the intensities of the light—as normal diffraction patterns do—it also encodes information about the phases of the light that is otherwise intrinsically lost.

"Without the phases, it's like trying to predict what happens next on a highway if you know where the cars are but not their speed," explained Luening. "You simply lack half of the important information. Holography elegantly encodes this other half in the measured intensities."

The information is decoded by applying a standard mathematical procedure known as Fourier transformation, yielding a complete image of the sample.

The demonstration experiment took place at BESSY in February 2004. The obtained image revealed the randomly organized 'north' and 'south' magnetic regions of a cobalt-platinum film to a spatial resolution of 50 nanometers (50 billionths of a meter).

The Stanford Linear Accelerator Center is managed by [Stanford University](http://www2.slac.stanford.edu/tip/2005/jan21/nanoscale.htm) for the [US Department of Energy](http://www2.slac.stanford.edu/tip/2005/jan21/nanoscale.htm)



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## EFD and SEM Merge to Form New Conventional and Experimental Facilities Department

*By Vickee Flynn and Nina Stolar*

In organizational changes announced in early December, the Experimental Facilities Department (EFD) from the Research Division and Site Engineering & Maintenance (SEM) from the Technical Division were merged into a new group reporting to the Director's Office. The new department reports to Steve Williams, named special assistant to the Director.

John Weisend was named Department Head of the new group, and he clarified the impact of the changes with this merger. "Our prime mission is to provide safe, well planned and efficient support for experiments and facilities at the Laboratory," Weisend said.

Deputy department head Burl Skaggs supports this reorganization as a benefit to SLAC. "This is an opportunity to merge the strengths of each group and re-establish priorities." Merging the experimental and conventional groups enables sharing resources and ideas. For the department organization chart, see: [https://www-internal.slac.stanford.edu/efd/org\\_chart\\_1024.pdf](https://www-internal.slac.stanford.edu/efd/org_chart_1024.pdf)

### Activity Highlights

All projects will have both technical and safety reviews. Work is underway to improve documentation of utilities at the Lab. A study is underway to develop a five-year plan for the department in order to help support the mission of the Laboratory.

A group of safety officers reporting to Weisend will collaborate closely with ESH staff members and other professionals. They are Brett Groussman, Rich Jones, Jerry Pfefferkorn, Tom Sherry and Brad Youngman.



*At a meeting held in January to announce the merger of EFD and SEM to members of the new department, Steve Williams (DO) is flanked by Burl Skaggs, shown left, and John Weisend.  
(Photo by Vickee Flynn)*

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**What's in a Name?**

A contest was held among EFD and SEM staff to name the new group. From about 50 entries, the winning entry was CEF, Conventional and Experimental Facilities Department. Phil Cutino, Ted Fieguth and Ken Yang submitted the winning entries.

**Same Service Request Contacts**

While the name has changed, service desk procedures remain in place. Please continue to submit your requests to the CEF Service Desk (Ext. 8901, [siteserv@slac.stanford.edu](mailto:siteserv@slac.stanford.edu)). For on-line service requests, see: <https://www-internal.slac.stanford.edu/sem/NonSafety/>

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## Safety Values and Expectations

By Irene Boczek

As we ring in 2005, the New Year will bring new opportunities and challenges to us all. Returning to the Laboratory after the holiday shutdown and continuing our work towards full operations, we must continue to make safety the top priority in all aspects of our daily work.

The recently updated Values and Expectations Regarding Safety, Health, and the Environment at SLAC (see below) sets out the fundamental approach we take to our work. We take safety as a personal commitment that underlies everything we do at the Lab. Please pay particular attention to the information on how willful violations of safety rules and regulations will be addressed. Everybody is asked to reread this important SLAC document today and understand how it relates to us, our coworkers and our jobs.

It is important for everyone to periodically review all safety documents to make sure you are up to date on Lab guidance and policy. The ESH website lists all updated and new documents as they are published and revised. Check our site under the What's New box at <http://www.slac.stanford.edu/esh/> regularly to keep up with recent releases.

Have a Safe and Happy 2005!

### Values and Expectations Regarding Safety, Health, and the Environment at SLAC

#### We Value People

#### Safety Comes First!

- At SLAC, the health and safety of people comes first and takes precedence over the attainment of other Laboratory objectives. Safety, science, productivity, and quality are mutually supportive and safety is integral to each job. The safe way to do things is the best and most effective way in the long run. Each of our actions must reflect this commitment and our integrity.
- SLAC laboratory objectives, including safety, quality, costs, customer service, and production volume, are our lifeblood and critically important to us. Our overriding priority to safety means that if there should at any point



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exist a conflict between safety and other objectives, the conflict must be worked out so that we can deliver our objectives safely. Faced with an immediate decision, safety is the overriding priority.

- Everyone at SLAC has the right to a safe and environmentally protected workplace. Injuries, occupational illnesses, and environmental incidents can be prevented. We each commit to take all steps needed to ensure personal safety, the safety of others, and protection of the environment in our daily activities.

- The principles of The Respectful SLAC Workplace (<http://www.slac.stanford.edu/welcome/slaonly/workplace.html>) apply to the management of people, including their safety and protection of the environment. Supervisors must maintain an atmosphere where safety and environmental concerns may be brought forward without fear of retaliation.

**We Expect Compliance with the Law and Regulations**

- SLAC recognizes that safety and environmental protection is accomplished through compliance with laws, regulations, and best management practices. SLAC's Work Smart Standards (<http://www.slac.stanford.edu/esh/isms/wssintro.html>) define the applicable environment, safety, and health laws and regulations and compliance with these is required. If rules and regulations are not followed, especially when willful violations occur, supervisors will work with Human Resources to address the situation on behalf of the Laboratory through an appropriate corrective action process.

**We Expect Our Leaders to Take Responsibility for Safety of People at SLAC and for Protection of the Environment**

- The safety of people and the environment are line management responsibilities. Everyone in the line authority is responsible and accountable for the prevention of injuries and protection of the environment in their daily work at SLAC.

- Managers and supervisors are role models and must demonstrate their commitment to health, safety, and the environment in their daily activities.

- Managers and supervisors must ensure that employees follow safe work practices and observe all rules and regulations regarding personal safety, the safety of others, and the protection of the environment.

**Each of Us Take Personal Responsibility for Safety of People at SLAC and for Protection of the Environment**

- We each understand that safety excellence is the product of the way that we think and that the way we think affects our actions. Our thinking begins with the proposition that "Safety Comes First."
- We each commit to involvement in safety activities because we know that this cements our safety values and builds safety awareness, ownership, and compliance.
- We each commit to continuous improvement in safety and environmental protection consistent with the SLAC Safety Management System (<http://www.slac.stanford.edu/esh/isms/sms.pdf>).

Reference: Stewart, J.M. (2002). Managing for World Class Safety. New York: A Wiley-Interscience Publication.

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Last update Tuesday January 18, 2005 by [Emily Ball](#)

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*By Cathy Knotts*

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For more information, see:

<http://www-ssrl.slac.stanford.edu/structureofwater.html>

<http://www.slac.stanford.edu/slac/media-info/20040402/index.html>

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The Quantum Diaries Web site was developed and is jointly maintained by the InterAction collaboration, whose members represent the world's particle physics laboratories in Europe, North America and Asia, with funding provided by the science funding agencies of many nations.

For more information, see: [www.quantumdiaries.org](http://www.quantumdiaries.org)



Quantum Diaries Web site

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### Wunderlich Arrives from Argonne

Bob Wunderlich was chosen to assume the Acting Manager position at SLAC by Ray Orbach, Director of the Office of Science. This assignment will continue through February. Wunderlich brings with him his experience as OneSC Project Deputy and Site Office OneSc Team Leader. His 34 years of service with the Federal Government include his current posting as the Argonne National Laboratory (ANL) Site Manager.

Wunderlich's program for the weeks to come is ambitious. "I plan to complete the Corrective Action Plan from the Type A Electrical Accident, including four of the 12 findings that were against the Site Office." He will work with SLAC management to begin getting the accelerators back on-line. He also plans to modify SSO business processes and procedures to make them more efficient and effective.

If you see Wunderlich walking from his temporary home at the SLAC Guest House to his office in the A&E Building, be sure to say hello. He finds the Guest House comfortable and hospitable, and is especially fond of his new commute!



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## SLAC Welcomes New Cafeteria Vendor

*By Bob Todaro*

A new cafeteria vendor, the Epicurean Group, began operations in the SLAC Café (now called the Linear Café) in January.

The Epicurean Group was founded in the Bay Area more than 19 years ago. They are dedicated to cooking food from scratch, not using frozen or prepared foods high in sodium and fat. They work with local farmers to obtain fresh, seasonal, organic produce as well as fresh meat and fish.

Café manager George Lee would like to hear any suggestions, comments or questions from staff on food or operations. Please contact him at Ext. 2615, or at [cafeteria@slac.stanford.edu](mailto:cafeteria@slac.stanford.edu).

Hours of Operation are 6:30 a.m. to 3:00 p.m., Monday through Friday:

**Breakfast:** 6:30 a.m. - 9:00 a.m.

**Lunch:** 11:00 a.m. - 1:30 p.m.

**Espresso Bar:** 6:30 a.m. - 3:00 p.m.

For current menus, see the Cafeteria Web site at: <http://www2.slac.stanford.edu/cafe/>

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## Special Reminder about SLAC-Owned Equipment

There are occasions when a vendor comes on site to install, repair and/or replace equipment in your work area. In some cases, the vendor may need to do a trade-in or provide a loaner, removing the old equipment and leaving a replacement.

Please note that this old equipment is government property. It cannot be given back to a vendor, nor can it be removed from SLAC without proper documentation in the form of a SLAC Shipping Order, or Shipper, which can be found online (<http://www-bis.slac.stanford.edu/Public/shipper/shipintro.asp>).

Always coordinate such returns, loaners, trade-ins or exchanges with a Purchasing Department buyer or expeditor.

Contact: Leslie Normandin, Ext. 4350, [leslie@slac.stanford.edu](mailto:leslie@slac.stanford.edu)

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## New Petty Cash Hours

Effective January 24, the new hours for pretty cash are:

10:00 – 11:00 a.m.

2:00 – 3:00 p.m.

Note that the morning hours are one hour later than the previous time of 9:00 – 10:00 a.m.

Contact: Lorin Sharp, Ext. 2226, [lorins@slac.stanford.edu](mailto:lorins@slac.stanford.edu)

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## HAVE QUESTIONS ABOUT INVESTING YOUR RETIREMENT?

Representatives from Fidelity, Vanguard, and TIAA-CREF

will be holding individual counseling sessions at SLAC.

Please contact the company directly to set up an appointment:

### Fidelity

February 15

March 10

call (800) 642-7131

### Vanguard

January 24

February 9

March 9

call (800) 662-0106

Ext. 14500

[www.meetvanguard.com](http://www.meetvanguard.com)

### TIAA-CREF

January 26

February 23

March 23

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call (800) 842-2007

[www.tiaa-cref.org/moc](http://www.tiaa-cref.org/moc)

All sessions will be held at:  
Building 280, Module A, Room 180.

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## New Disaster Relief Organization Formed at SLAC

*By Ziba Mahdavi*

Disaster Relief at SLAC (DRAS) was conceived on January 4, in response to the need to support members of the SLAC community to provide relief to communities devastated by the south Asian tsunami that occurred on December 26, 2004.

This grassroots organization is structured to approve and raise funds for disaster relief projects that are coordinated by a member of the SLAC community. DRAS is an all-volunteer organization that will ensure that 100 percent of the funds collected for a given project will go to that specific project.

DRAS is not affiliated with SLAC or with Stanford University. Board members are Ziba Mahdavi (BSD), Barry Webb (HR), Teresa Troxel (SSRL), Vickie Flynn (CEF), and Nadine Wright (BSD). Volunteers are welcome to join this new organization.

A pilot project, Tamil Nadu Relief Project (see box), has been identified and is in the final stages of the DRAS approval process.

SLAC community members with other project ideas should contact Ziba Mahdavi (Ext. 4458, [zibam@slac.stanford.edu](mailto:zibam@slac.stanford.edu)). You may also visit the Web site at: <http://www.draslac.org/>



*Kay Ganapathi (Photo by Diana Rogers)*

### Tamil Nadu Relief Project

*By Teresa Troxel*

The 8.9 Richter scale earthquake that struck Indonesia at about 6:30 a.m. India time, generated the south Asian tsunami of December 26, 2004, that struck the Indian coast just north of Sri Lanka at about 9:00 a.m. There were six to eight tidal waves separated by 10 to 20 minutes that struck the port city of Chennai (Madras), the capital of the state of Tamil Nadu, and the surrounding villages. The saltwater

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waves washed over the beaches and rushed up two rivers, one in the middle of Chennai and one toward its southern border, and three canals that interconnect the rivers. Half of the homes along the coast in Chennai and almost all the homes in the surrounding areas were destroyed and 8,000 lives were lost.

Kausalya (Kay) Ganapathi (MD) was visiting her family in Chennai and was an eyewitness to the tragedy. She felt the earthquake which lasted about five minutes. Later, she and her family left for a planned coastal excursion with the intention of visiting the temple at Pondicherry, a French colonial town to the south.

While driving down the coast they began to experience waves of people running and screaming. They stopped before crossing one of the canals and decided to return home. The bridge they had been about to cross was destroyed by an oncoming rush of tidal waves. While crossing the broad river to the south of the city, they found the water was within a foot of the bridge pavement as another wave rushed onshore up into the river delta where thousands lived.

After returning to the family home, Ganapathi, along with her family, their friends and neighbors began relief efforts for the victims. They prepared and distributed 300 packets of food the first day. Subsequently they bought food, sheets and clothing using their own personal resources, and made many trips to the devastated areas to distribute them.

Since returning to the Bay Area, Ganapathi has committed herself to raising funds for the unfortunate people who have been devastated, losing everything. On the day of her return to SLAC, Ganapathi's colleagues began to help her organize a Tamil Nadu Relief Project, and DRAS was founded to aid her and other disaster victims.

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## Greeting Card Contest Winners

*By Lesley Wolf*

Bob Reif (EB), Jean Sutherland (RD) and Louise Addis (TIS) rummaged around in their closets and drawers to come up with SLAC New Year's greeting cards from past years that filled the holes in the SLAC Archives and History Office (AHO) collection. Their reward? An official AHO pencil emblazoned with 'SLAC Makes History Every Day.'

Be the first in your office to sport an official AHO pencil. Turn in your old SLAC greeting cards to Archives (Mail Stop 82). If AHO does not have your card, you may be a winner. Do it today, what have you got to lose?

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## 2004 Holiday Drives a Big Success

*By Erin Sharata*

The charitable drives did very well at SLAC. The Second Harvest Holiday Food Drive collected 1,277 lbs. of food, the Family Giving Tree Drive fulfilled over 300 wish cards gifts for toys, clothes and other items. The Blanket and Coat Drive collected about 20 large sacks stuffed full of coats and blankets. Thanks to everyone who participated!



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From your SLAC computer, check out the latest postings on <http://www.slac.stanford.edu/library>

National Fire Protection Access (NFPA) codes and the Astronautic Structures Manual (ASM) materials data can be accessed from the Library Web site.

The Library also has a complete collection of ASTM Standards on the shelves and an ASTM Standards CD-ROM station at our Online Public Access Computer kiosk.

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## On-Site Computer Classes

Take advantage of a special opportunity for SLAC employees. Instructor-led, hands-on classes in MS Access, Excel, PowerPoint, Project, Outlook and Word. Each student will have use of a computer while in class and receive a reference book.

For a complete schedule and registration information, see:

<http://www2.slac.stanford.edu/comp/edu/classes/>

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### Service Awards

#### 5 Years

Althouse, William (REG), 1/10  
 Perreras, Corazon (ACC), 1/20  
 Pope, Rodd E. (AD), 1/8  
 Stöhr, Joachim (SSRL), 1/1  
 Taylor, Critt (ASD), 1/10  
 Van Sandt, Denise (TIS), 1/1  
 Wiertel, Lawrence (ASD), 1/5  
 Wolf, Lesley (TIS), 1/1

#### 10 Years

Garcia, Juan (ESD), 1/23  
 George, Ninos (ESD), 1/23  
 Massoletti, Arnold M. (KLY), 1/3

#### 15 Years

Ciorbea, Dumitru (SEM), 1/4  
 Claus, Richard (REG), 1/1  
 Maruyama, Takashi (EA), 1/1

#### 20 Years

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Blum, Piotr (ESD), 1/2

Haller, Gunther (REG), 1/22

Hedman, Britt (PRO), 1/1

Hill, Alan S. (KLY), 1/25

Kulikov, Artem V. (AD), 1/24

**25 Years**

Bouldin, Karl P. (REG), 1/7

**30 Years**

Wiedemann, Helmut (ASD), 1/1

**Retirements**

Emmersen, Elizabeth (BSD), 12/31

Garwin, Edward (PEL), 1/1

Itani, Victor (MD), 1/21

Kase, Kenneth (DO), 12/31

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/>

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WIS Presents

## TSUNAMI EYEWITNESS

**Kay Ganapathi**

Tuesday, January 25

12 Noon - 1:00 p.m.

Panofsky Auditorium

Kausalya (Kay) Ganapathi (MD) was visiting her family in Chennai (previously called Madras) and was an eyewitness when the south Asian tsunami struck the Indian coast. Tidal waves struck the port city of Chennai and its surrounding villages. Ganapathi will give her eyewitness account of the disaster and local relief efforts.

She will also present the Tamil Nadu Relief Project that she is organizing, sponsored by the newly formed Disaster Relief At SLAC (DRAS) organization (<http://www.draslac.org>).

Bring a lunch and bring a friend.

For more information, see: <http://www-project.slac.stanford.edu/wis/pages/nextseminar.htm>



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## DOE Science Bowl Comes to SLAC

*By Linda DuShane White*

On Saturday, February 12, SLAC's Panofsky Auditorium will be filled with talented high school students participating in the DOE Regional Science Bowl, entitled Discover Z with Science. In collaboration with DOE, we join LBNL (January 29) and Sandia/LLNL (February 5) for this regional activity.

Teams will vie to win an all-expense paid trip to Washington, D.C. in May to compete for the national title. There will be about 14 teams coming from 12 local high schools.

The DOE National Science Bowl, which was founded in 1991 and approved by Congress, is a tournament-style academic competition that challenges and recognizes students' knowledge of science and mathematics. The fast-paced question-and-answer categories include astronomy, physics, chemistry, mathematics, current events in the scientific community, computer, earth and general sciences.

RoseAnn Pelzner (DOE) fulfilled a dream in bringing the Science Bowl to SLAC. "The kids get a wonderful experience that will last for the rest of their lives," she said. Pelzner speaks from personal experience. "In my youth I joined organizations, competed and went to national and international conventions. These were things that gave me confidence."

### First Science Bowl

Your participation will assure the success of this first-time event at the Laboratory! Please join us as a SLAC Ambassador to the Community for this exciting event. Volunteers are needed to help with registration and to escort the students. Formal support for Moderator, Timekeeper and Scorekeeper includes a training session on either Thursday, February 3, at 1:30 p.m. or Thursday, February 10, at 9:30 a.m. in Panofsky Auditorium.

The Science Bowl format is like a game show. Tune in to the Saturday TV show, Quiz Kids, on Channel 26 at noon to see how a similar round-robin competition works. Volunteers will enjoy the day as much as the student teams and their coaches, assures Pelzner. "It will be an incredible day."

For more information, see: <http://www.slac.stanford.edu/grp/pao/sciencebowl05.html>

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## Town Meeting

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The National Research Council's Committee on Elementary Particle Physics in the 21st Century, (EPP2010) will hold its next Town Meeting at SLAC on January 31-February 1.

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See <http://www7.nationalacademies.org/bpa/EPP2010.html>

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## ILC Workshop at SLAC

*By Heather Rock Woods*

Ninety physicists from around the world gathered at SLAC earlier this month for a Machine-Detector Interface Workshop on the proposed International Linear Collider (ILC).



*Workshop participants (Photo by Diana Rogers)*

The meeting brought together experimental and accelerator physicists to address how the machine design affects detector design and physics for ILC experiments, and how experimental requirements impact the machine design.

For more information, see: <http://www-conf.slac.stanford.edu/mdi/>

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## U.S. Senate Staffers Visit SLAC

Tammy Cameron and Scott O'Malia, staff members of the U.S. Senate Energy and Water Committee, visited SLAC on January 10. They received a briefing as well as a site tour. Shown left to right in the Klystron Gallery are Laboratory Director Jonathan Dorfan, Scott O'Malia, Tammy Cameron, Keith Hodgson (SSRL), Bob Wunderlich (DOE) and John Galayda (LCLS).



*Photo by Diana Rogers*

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## The Interaction Point

### Editorial Team

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TIP is available online at:

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