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## Report of the SLAC Scenarios Study Released

*By Heather Rock Woods*



For 40 years SLAC has hummed with scientific excitement day and night, and it will be no different in the year 2015.

That's the conclusion of the newly released SLAC Scenarios Study, which examined what the Lab might look like in 2015 in the context of the huge international effort to build a new linear collider.

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## Mentor a SULI Summer Student

*By Davide Castelvechi*

Do you want to make a difference in the life of a student, while getting some help in your lab this summer?

The DOE Science Undergraduate Laboratory Internships (SULI) program will bring students to the SLAC campus, to take part in eight to nine weeks of research training.

[See whole story...](#)



## SLAC Cafeteria Prices—Why Are They Higher Now?

*By Jerry Jobe*

Many of you have noticed that SLAC cafeteria prices were recently raised. This has led to several inaccurate reports regarding cafeteria operations and how its prices are determined. To set the record straight, I will describe how the cafeteria is operated and how SLAC is involved.

[See whole story...](#)

## DOE Stanford Site Office Update

*By John Muhlestein*

The DOE Stanford Site Office (SSO) at SLAC provides field management of SLAC and SSRL for the Office of Science (SC). A key part of our mission is to continuously improve our communications, trust and teamwork with the SLAC community, regulators and stakeholders.

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## Fly Away Home

By Linda DuShane White

A few years ago, Burl Skaggs (SEM) and his wife Carol decided to find a new way of life after she retired. Determined to stay in the West, they traveled to his home state of Montana, and then from New Mexico to Washington state.

During this odyssey a friend gave Skaggs an article on airparks, residential areas with access to a runway. In California alone, there are about 20 airparks, but most are either small (4 or 5 houses) or remote.

[See whole story...](#)

## Take Advantage of Fitness Classes Offered at SLAC

By Ziba Mahdavi

Did you know we have a wide variety of fitness classes taught here at SLAC? These include aerobics, ballet, body sculpting, step aerobics, pilates, and yoga.

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That's the conclusion of the newly released SLAC Scenarios Study, which examined what the Lab might look like in 2015 in the context of the huge international effort to build a new linear collider.

"The report shows SLAC is going to remain a vibrant place with a strong physics program," said Tom Himel (NLC), who co-chaired the scenarios committee with Research Director Persis Drell.

"The pillars of the program are strong. The Lab is flexible, able to respond to new advances and surprising results that will unfold as the next decade progresses," the report states. The committee made no recommendations on which scenarios to pursue—its job was to provide feasible options, not to produce a fixed road map.

### High Energy Frontier

"The scenarios study is a tool management can use to plan how to get from where we are to where we want to be," Himel said. Over the past year, the committee solicited opinions from SLAC users, staff and faculty in public seminars and at a Town Meeting. The committee worked on the baseline assumptions that the PEP-II/BaBar program has a strong future through 2010, that a linear collider will be built, that SSRL has a bright future with its SPEAR3 and x-ray laser (LCLS) programs, and that particle astrophysics will grow here under the auspices of the new Kavli Institute for Particle Astrophysics and Cosmology.

On the high energy frontier, all the scenarios include SLAC continuing to play a leadership role in the new linear collider, as well as sizably increasing the Lab's advanced accelerator R&D aimed at making future machines both feasible and affordable. The linear accelerator (linac) remains a solid foundation in SLAC's program under all scenarios, to be used for test beams and linear collider research, for advanced accelerator studies and for the upcoming x-ray laser. "The ubiquitous SLAC linac has enabled forefront science for 40 years on the SLAC site and is likely to do so for decades to come," noted the report.

An interesting conclusion the committee drew was that, while the type of linear collider projects would



*Drawing Courtesy of Diana Rogers*

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change, the scope of SLAC's on-site effort would basically be the same, whether the linear collider is built in the U.S. or elsewhere, no matter which technology is used to supply accelerating power. As builders of the world's only linear collider to date, SLAC has vast experience, and believes that the X-band technology that it has developed in collaboration with KEK in Japan and other national and international partners is the best technology choice.

"This is an enormous project with room for SLAC leadership in many areas," Himel said.

#### Flavor Physics Pillar

The biggest variation in the four scenarios is in the 'Flavor Physics' pillar. The current B Factory program (PEP-II/BaBar) runs through 2010. After that, the committee outlined different possibilities, including building a 'Super' B Factory here with massively better luminosity (based on ongoing accelerator R&D), making a lower-cost medium luminosity upgrade, helping Japan's KEK lab upgrade their B machine, or ending the program.

The study also considered many opportunities for smaller high energy physics experiments. The scenarios committee had two sub-groups: one on linear collider options, co-chaired by Tor Raubenheimer (NLC) and Ewan Paterson (TD); and one on other physics options, co-chaired by Lance Dixon (THP) and John Seeman (AD). "We were pleased with the participation of the SLAC community in this process. I want to thank the committee for the wonderful job they've done over the last year," Himel said.

To read the report, see: <http://www-project.slac.stanford.edu/lc/local/scenario/>

You can also Town Meeting at: <http://www-project.slac.stanford.edu/streaming-media/Lectures/Scenarios/Scenarios.html>

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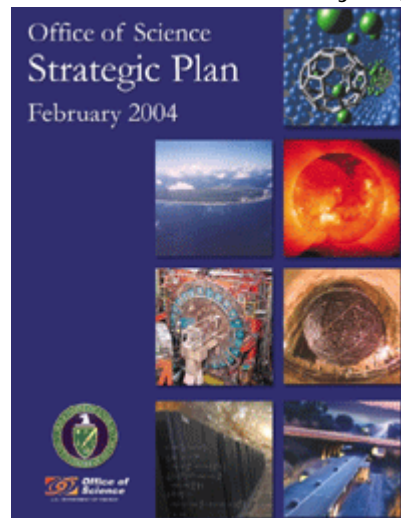
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*The DOE's Office of Science Strategic Plan can be found [here](#).*

SSO reports directly to SC and provides an on-site presence for implementation of programs and projects, as well as institutional management of the DOE-Stanford University-SLAC Management and Operations (M&O) Contract. Our functional expertise includes:

- Assure DOE stewardship of SC Labs partnering with SLAC to achieve outstanding science
- Provide Field Management of DOE Science and Technology projects and programs, infrastructure and facility management
- Provide ES&H operational awareness, environmental stewardship, regulatory interface and occurrence reporting
- Institutional management for business operations, as part of performance-based management process

### OneSC Project Rollout

The SC restructuring project, called OneSC, is being rolled out in March-April. By September, the Oakland Operations Office (OAK)—which many of you are familiar with—will become fully integrated with the Nevada and Albuquerque support centers in New Mexico (see TIP, February 7, 2003). Under OneSC, SSO and SLAC will receive integrated support from the Chicago and Oakridge Operations Offices.

### Science Strategies and Facilities

The Office of Science oversees the construction and operation of some of the nation's most advanced R&D user facilities, managing ten world-class laboratories including SLAC. The SC Strategic Plan identifies the steps they must take to ensure that the U.S. scientific enterprise remains at the forefront of innovation and

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discovery, and that the DOE's vital missions are accomplished.

The Strategic Plan is a companion to the previously released Facilities for the Future of Science: A Twenty-Year Outlook. Both documents look ahead to the needs of the U.S. scientific community over the next two decades, setting concrete goals for direction of U.S. basic research including SLAC's LCLS and NLC projects.

Ray Orbach, Director of the Office of Science stated, "We worked very closely with the U.S. scientific community to identify the scientific programs the Office of Science should pursue over the next two decades that will enable our nation to stay at the forefront of innovation."

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## Doug Kreitz and Fellow Volunteers Receive 'Points of Light' Award

By Vickee Flynn

Doug Kreitz (BSD) was recently honored, along with 50 fellow volunteer counselors and specialized nurses, by winning the coveted Daily Points of Light Award for his work each summer at the Youth Rally of the United Ostomy Association, Inc. (UOA).



*Doug Kreitz (right) is shown dancing with one of the campers at the special dance held on the last night of the Youth Rally. (Photo courtesy of Doug Kreitz)*

The Youth Rally —a camp for youth aged 11 –17 who have an ostomy or related procedure —is held on a university campus each July. The Rally offers educational classes, sports, sightseeing and an environment that promotes independent living skills and friendships that last a lifetime. Over the past 25 years, thousands of special-needs children have attended the Youth Rally, the only one of its kind in the U.S. The rally may be the first time in the childrens' lives that they meet others with similar medical challenges and realize they are not alone.

The Youth Rally requires dedicated, caring individuals who are passionate about helping others. It takes more than 50 such volunteer counselors and nurses to support the rally each summer. All use their own vacation time and money to attend and to provide the special attention required. Kreitz has volunteered for the past four years to make a positive impact on the lives of special-needs youth from all over the U.S.

On March 8, the Youth Rally Volunteers were named The Nation 's Volunteer Group of the Day and featured on the Points of Light Foundation Web site at: <http://www.pointsoflight.org>

Begun in 1989 by then President George Bush Sr. as a movement to engage all Americans in solving community problems, the Daily Points of Light Program was reinstated in 1998 to recognize outstanding voluntary service.

UOA President Ron Titlebaum, thrilled by this honor for his colleagues, remarked, "I can't

imagine a group more worthy of this award. They give their all to the kids, not just during the rally, which is a 24/7 duty, but all year long. They are the backbone of this program!"

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The United Ostomy Association is a volunteer-based health organization dedicated to providing education, information, support and advocacy for people who have had, or will have, intestinal or urinary diversions.

For more information, see: <http://uoa.org>

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## Lüth Appointed to SLAC Faculty

By Davide Castelvecchi

Vera Lüth (EC), a key member of the SLAC staff for the better part of the last 30 years, has been appointed a full professor of research at SLAC.

Lüth first came to SLAC as a post-doc in 1974. She had earned her D.Sc. from the University of Heidelberg, Germany, for work she did at CERN under Jack Steinberger's guidance. At SLAC she joined Burton Richter's research group and took part in the Mark I and Mark II experiments, first at the SPEAR and PEP storage rings and later at the SLC. Inspired by experience gained during a sabbatical leave at CERN in 1984-85, she participated in the design and construction of the first silicon vertex detector for a colliding beam machine, an addition to the Mark II detector at the SLC.

In 1992 Lüth joined the Superconducting Super Collider (SSC) in Dallas, Texas, where she was responsible for planning the experimental program and for build-up of the research staff. After Congress decided to terminate the SSC in 1993, Lüth returned to SLAC the following year, joining the newly established BABAR Collaboration. A year later she was appointed Technical Coordinator. In this role she coordinated the large international collaboration for the design and construction of the BABAR detector.

Over the years, Lüth has served on advisory committees at several laboratories and universities, more recently on the DOE/NSF High Energy Physics Advisory Panel, and on the Large Facilities Panel of the German Wissenschaftsrat, a committee that advised the German government of their country's top science priorities.

Throughout her career, Lüth's main interest has been the study of weak interactions. Her thesis was on charge-parity violation in neutral K decays. At SLAC she was one of the lead authors of the measurements of the (3095) and (3695) resonance properties and the first observation of certain decay modes of charm mesons.

Recently, her research with BABAR has focused on the understanding of semileptonic B meson decays and on testing the Standard Model of particle physics.



*New faculty member Vera Lüth. (Photo by Diana Rogers)*

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## Fly Away Home

By Linda DuShane White

A few years ago, Burl Skaggs (SEM) and his wife Carol decided to find a new way of life after she retired. Determined to stay in the West, they traveled to his home state of Montana, and then from New Mexico to Washington state.



*The Skaggs shown with their 1958 Bonanza in front of their Cameron Park home. The large garage is actually a hangar. (Photo courtesy of Burl Skaggs)*

During this odyssey a friend gave Skaggs an article on airparks, residential areas with access to a runway. In California alone, there are about 20 airparks, but most are either small (4 or 5 houses) or remote.

Let Skaggs tell it: "So just as a fluke we went for a drive up to the Gold Country and stopped in Cameron Park and looked around. It's different because the streets are wide and people have airplanes in their driveways." Carol had formerly lived around Sacramento and El Dorado Hills so returning to the area appealed to her. They bought their lot in 2000, got commercial house plans which they customized, and then built "twice the lot, twice the house." The Skaggs went from an 'okay house' in a changing, not-so-neighborly neighborhood to a custom house in a friendly neighborhood, where people start off with airplanes as common ground.

Skaggs said, "We already know more people casually in one year than we did in 16 years." They moved into their new home in March 2003. "I'm very much at the mercy of the weather gods," avers Skaggs. "I'll just fly to work' sounds great and works 70 percent of the time. The rest of the time, Skaggs makes a 100 mile, two-hour drive to work and camps out at his mother's house in the Bay Area.

When commuting by plane, Skaggs taxis up the street from his house to the runway, spends 35 minutes flying to the Palo Alto Airport, swaps his plane for the car he leaves parked there, then drives 20 minutes to SLAC.

Skaggs owns a 1958 Beech Bonanza, model J35, which cruises at 175 mph. An avid flyer, he took lessons at the age of 16 and got his first license on his 17th birthday, "the earliest legal time you can have a license," he says. His abilities as a mechanical engineer have come into play keeping this and his former planes in good shape.

According to Skaggs, his Bonanza is still pretty young, with about 6,000 hours on it. The engine gets rebuilt periodically depending on inspection and its time and service. An inspection is required once a year for a

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private pilot. "The most flying I've done is in this Bonanza now that I'm commuting," said Skaggs. "It's fun. The view changes every day, the time of year changes it, the time the sun comes up." It's never the same twice and Skaggs has beautiful photos to prove it.

Skaggs also has a commercial license to fly helicopters, which he flew for a while just for fun. He loved it, but can no longer afford it. "Airplanes," he says, "are not cheap, but you take the cost of flying airplanes and triple it, that's helicopters."

For those interested in becoming pilots and owning a plane, Skaggs said he would encourage people to look into the price of older airplanes, which is comparable to a new car. For those with some mechanical ability, the upkeep isn't too bad.

There are still about 20 unbuilt lots remaining in Cameron Park, so if you want to commute by plane from in the rolling foothills of the Sierra Mountains you, too, could fly away home.

For more information on Cameron Airpark Estates see: [http://www.sscpchamber.org/area\\_aboutsscp.htm](http://www.sscpchamber.org/area_aboutsscp.htm)

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## SLAC Scientist's Biography Will Appear in Middle School Textbook

*By Kate Metopolis*

Cherrill Spencer (NLC) has devoted significant time over the past 28 years encouraging young people to go into science. When publisher Macmillan McGraw-Hill approached her about being one of the scientists profiled in a new science textbook, it was natural for her to agree. Educators hope to inspire and inform students early enough in their lives to prevent having them unknowingly make choices that would rule out science-based careers, such as not taking as many math courses as they can before college.

Spencer's youthful ambition to become an astronaut is lamentably missing from the biographical sketch, but, then, the editors only had 200 words in which to explain to sixth-graders how she came to design accelerator magnets and how they're used in addressing the question "What is everything made of?"

Spencer believes that showing kids who the scientists are may be as important as telling them what science is. The scientists' profiles reveal that "we're regular people—we're not like Einstein. That will help counteract the myth that boys as well as girls sometimes believe, that you have to be a genius to be a scientist. Most of us aren't," she laughed. She'd like students to appreciate that a scientist doesn't need to win a Nobel prize to find the work rewarding.



*Cherrill Spencer (NLC) (Photo by Diana Rogers)*

Another reason for agreeing to appear was that "it helps bring our work into the public's mind," Spencer said. "We're doing worthwhile research. I see it as an advert for high energy physics and for SLAC."

The textbook will be available in 2005.

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## Mentor a SULI Summer Student

By Davide Castelvecchi

Do you want to make a difference in the life of a student, while getting some help in your lab this summer?

The DOE Science Undergraduate Laboratory Internships (SULI) program will bring students to the SLAC campus, to take part in eight to nine weeks of research training. Volunteer researchers are needed who are willing to assign projects, work with the students and serve as mentors and role models. Post-docs and graduate students can also be mentors, as long as they get the go-ahead from their research groups.

### Selection Process

Each year, the SLAC Selection Committee picks 25 students from a large applicant pool, focusing on those for whom they think the program can make a real difference, such as those who have had no chance to see what research work is like, and those who might lack the confidence to go for a career in science. Many are women, minorities or students from small colleges or community colleges.

"Projects should have a real research component," says Helen Quinn (THP), who manages the program at SLAC. At the end of the summer, each student presents a talk and submits a research report.

"A vibrant research field requires bringing new students in," says physicist Mike Woods (EA). He added that some of the students he mentored in the past have produced very useful work by initiating projects that might otherwise not get done. One SULI student designed a detector for use as a beam monitor in E-158. "A year later he went on to graduate school at Berkeley," Woods says, "where he participated in building the detector."

### Mentoring is Fun

Being a mentor can be time consuming, but does have its rewards. "It's fun because [the students] give you a reality check," says particle astrophysicist and former mentor Eduardo do Couto e Silva (EK). "When you are forced to explain things in simple terms, it gives you a deeper understanding of what you're doing."



*Students from last year's SULI program reflect on their accomplishments. (Photo by Diana Rogers)*

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"Helen is outstanding," said do Couto e Silva of Quinn's efforts. "She should be highly commended for how the program is run." Students from past years often write her to express their gratitude. "I grew up in a male-dominated country," wrote one student, "and I always had this fear that I would not be able to fulfill my dreams...now I know that the sky is the limit."

"I have not only learned about physics and computers," wrote another, "but also how to look at the future and succeed."

#### Program Coordinators

Those who are interested or who have questions should contact the program coordinators for their respective research areas: Tom Glanzman or Mike Woods (Research); Herman Winick (SSRL); Al Baker or John Fox (Technical); and Greg Madejski (Astro Physics).

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## SLAC Cafeteria Prices—Why Are They Higher Now?

*By Jerry Jobe*

Many of you have noticed that SLAC cafeteria prices were recently raised. This has led to several inaccurate reports regarding cafeteria operations and how its prices are determined. To set the record straight, I will describe how the cafeteria is operated and how SLAC is involved.

### How the Cafeteria is Operated

The cafeteria is operated by a private concessionaire under contract to SLAC. The Lab provides the facility, utilities, maintenance and some supplies. The concessionaire provides the food service in the cafeteria, catering services on site and vending machine service.

### SLAC's Involvement in Cafeteria Operations

Menu offerings and prices are established by the concessionaire. As food service professionals, the concessionaire's job is to ensure a wide variety of quality foods at reasonable prices while covering their costs and also achieving desired profit margins. This combination is not always possible. To help make that possible, SLAC subsidizes the concessionaire's operations up to a maximum of \$35,000 per year.

### Why Prices Have Gone Up

Due to various factors, including lower-than-projected catering business, the concessionaire has been losing money at a rate that will exceed the maximum subsidy. When the concessionaire realized this, they approached us with the problem in the hope that SLAC would increase the subsidy.

SLAC's response was that the subsidy could not be raised. However, the concessionaire was free to adjust the menu and/or prices as necessary to cover costs and make the operation viable. After careful evaluation of the situation, the concessionaire decided to raise prices in early March.

If losses continue to be excessive, the concessionaire may find it necessary to take additional action.

Contact: Jerry Jobe (BSD) Ext. 4245, [jlj@slac.stanford.edu](mailto:jlj@slac.stanford.edu)

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## The Globies—a Way to Tell Fellow Employees They're Appreciated

*By Joni White*

Not just another popularity contest, but your chance to let your fellow employees know they are appreciated!

Do you know someone you consider to be an unsung hero of SLAC? The Employee Award Program recognizes those who consistently promote a positive, respectful and harmonious work environment by doing a variety of things to make the workplace more inviting.

### We want your nominations!

Can you think of anyone who often goes out of his or her way to help others, is always pitching in when needed, volunteers for SLAC activities not directly related to their job, or shows unusual grace under pressure?

Last year we received almost 200 nominations, and the recognition awards committee hopes to attract even more this year. All SLAC employees and University employees assigned to SLAC are eligible for nomination. We know there are deserving candidates in every area of our Lab—physicists, union employees and shift workers—and we need you to tell us about them.

Employees that are selected will receive the Globie Award Trophy, a certificate of recognition, a letter from the Director for their personnel file, an awards luncheon at the Faculty Club and a picture on SLAC's Wall of Fame. But the legacy of the Globie goes beyond that.

Carol Morris (OHP) had this to say about being presented with a globie last year. "For me, my 'Globie' is a very tangible reminder and a wonderful affirmation that I am appreciated by people I respect and work with on a day to day basis. It was an honor to be recognized by my peers and managers for the role I play within a very interesting and dynamic organization. It's nice to know that when you occasionally lose sight of your contribution to such a facility as SLAC that there are those to remind that you do matter and that you do count."

### Nomination Process Underway



*Carol Morris (OHP) receives her Globie from Jonathan Dorfan last year. (Photo by Diana Rogers)*



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Nomination forms were sent out on March 15. Go to [https://www-internal.slac.stanford.edu/hr/er/eap/form/nomination\\_form.html](https://www-internal.slac.stanford.edu/hr/er/eap/form/nomination_form.html) for an online nomination form.

#### EVENTS

- [WIS Presents... Toy, Tool or Transcendent Technology? How the Bicycle Freed Women](#)
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The Stanford Linear Accelerator Center is managed by [Stanford University](#) for the [US Department of Energy](#)

Last update Wednesday March 24, 2004 by [Emily Ball](#)

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## New Web site for SCS Classes

*By Mary Crume*

The SCS Education Web site has moved to: <http://www2.slac.stanford.edu/comp/edu/classes/default.asp>

The hands-on classes are taught by Bay Area ExecuTrain in the Computer Center (Bldg. 50, Room 111). If your group members need training in a particular application, let me know and we can schedule a session for you.

We can also arrange a one-one-one session with one of the trainers if you need help while working on a project.

Contact: Mary Crume (SCS), Ext. 3683, [mjcrume@slac.stanford.edu](mailto:mjcrume@slac.stanford.edu)

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## First Public Lecture Series Event is Available On-line

If you missed Neil Calder's lecture, "All About SLAC: What Goes on in the World's Longest Building" you can now see it on-line!

The lecture is available at [http://www2.slac.stanford.edu/lectures/info/2004\\_02\\_24.htm](http://www2.slac.stanford.edu/lectures/info/2004_02_24.htm)

The next lecture, "Synchrotron Radiation: The Light Fantastic" will be given by Herman Winick on April 27 at 7:30 PM

For more information on the Lecture Series, see: <http://www2.slac.stanford.edu/lectures>

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Photo by Diana Rogers

## Welcome New Employees!

At a recent monthly New Employee Orientation, organized by Erin Smith and Barry Webb (both of ER), some new SLAC staff members pause for a photo before joining Nina Stolar (PAO) on the site tour. Back Row (left to right): John Blomdal (SEM), Kazuhito Suzuki (EB), William Fukuba (ASD), Barry Webb, Kai Yi (EC), Herbert Axelrod (SG), John Soto (SEM), Nina Stolar, Richard Maggi (SEM), Leesa Yim (SG). Front Row: David Harris (COM), Sherry Chu (SCS), Alice Gruber (BLS) and Erin Smith.

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## Take Advantage of Fitness Classes Offered at SLAC

By Ziba Mahdavi

Did you know we have a wide variety of fitness classes taught here at SLAC? These include aerobics, ballet, body sculpting, step aerobics, pilates, and yoga.

Advanced registration is recommended for Pilates and Yoga classes, which are coordinated by Stanford's Department of Athletics, Physical Education and Recreation.

The next quarter runs from April 5 to June 25.

Fees for (1) Stanford staff (2) Stanford students (3) Neighbors:

### Monday Pilates (11 weeks)

(1) \$41.25 (2) \$27.50 (3) \$55.00

### Wednesday Pilates (12 weeks)

(1) \$45.00 (2) \$30.00 (3) \$60.00

### Friday Yoga (12 weeks)

(1) \$45.00 (2) \$30.00 (3) \$60.00

For registration, please go to:

<http://www.stanford.edu/dept/pe/recclasses.pdf>

For a complete list of classes, see the Wellness Classes on the Medical Department's website at: <http://www-group.slac.stanford.edu/esh/medical>

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*(Photo courtesy of CERN)*

## 50 Years of CERN

A special commemorative stamp dedicated to CERN went on sale at post offices in Switzerland on March 9, marking the official start of CERN's 50th anniversary celebrations. For details see: [http://info.web.cern.ch/info/ES/CERN50/news/040305/040305\\_en.html](http://info.web.cern.ch/info/ES/CERN50/news/040305/040305_en.html)

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