

Second annual Take Our Daughters to Work Day

65 DAUGHTERS DESCEND FOR DAY



"TAKE OUR DAUGHTERS to Work Day" (TODTW) was created three years ago by the Ms. Foundation to introduce young women to professions that are normally not held by females, and to help adolescent girls build self-esteem and raise their career aspirations.

At SLAC 65 girls were shown career choices that are nontraditional, even for most men. Representatives from careers in radiation health physics, mechanical engineering, computer programming, particle physics, employment compensation, business services, and heavy fabrication spoke to the girls about their careers and the choices that went into selecting those careers. The TODTW day was organized by the Women's Interchange at SLAC and assisted by over 40 SLAC volunteer staff.

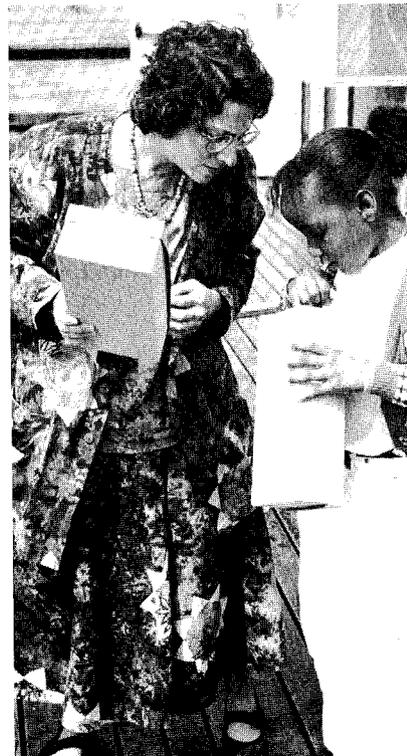
"I was surprised at how attentive the girls were," commented

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Top: Samantha Porath, Pancha Diaz, and Shalla Mirkhani (left to right) thought getting to put on protective suits was lots of fun, but even better was getting to take them home. Bottom, left: Lisa Butler liked her protective suit so well she wore it the rest of the day, even at lunch with dad, Craig Butler. Bottom, right: Professor Lynn Cominsky of Sonoma State and Jamie Trotter try out their pin-hole cameras during a brief moment of sunshine.



Photos this page: P. A. Moore



Service Awards with a slice of history

EMPLOYEES with 20 and 30 years of service were honored during an Awards Banquet at the Stanford Faculty Club on March 23. Ten 20-year honorees were accompanied by eighteen “pioneers” who helped design and build the laboratory three decades ago. While this was our third 30-year Award Ceremony, it was the thirteenth 20-year Awards and the third time SSRL staff were included in this annual laboratory event.

Lee Lyon kicked off the ceremony with a time-capsule report of then-current events covering world affairs, politics, and construction progress at the lab. For example, young Pete McClosky headed the Save our Skyline effort to ensure that power lines for SLAC did not disrupt the bay view for our neighbors.

Thirty years ago, in 1964, the accelerator tunnel had been poured, sprayed and covered. A hundred machinists and technicians were fabricating 100,000 copper disks and cylinders to form the two-mile-long accelerator. Uncounted tons of earth and stone were excavated to prepare the research yard.

By 1974 when the twenty year veterans began their careers at SLAC, the linac was completed, the SLAC research program was well underway, and chimpanzees still lived at the Stanford Primate Research Center alongside the Klystron Gallery. That year HEPAP endorsed the PEP ring and the United Stanford Workers had an agreement with the university for the first time. It was the year of the November Revolution—the discovery of the psi particle at the SPEAR storage ring, which changed the direction of high-energy physics.

In his opening remarks Director Burton Richter stated that “Service Awards are important



Photo courtesy of Nina Stolar

Among the attendees at the recent Service Awards Ceremony were, (back row, left to right): Nina Stolar (who reported on the event), Rodolfo Malimban, and Norma Malimban; (front row, left to right): Roosevelt Hutchinson, David McKissick, and Vivian Fragiaco.

because SLAC’s achievements are made by the creative people working at the lab. People run the machines, build the apparatus, administrate, and provide support for the physicists who publish the results.” Burt went on to describe the Stanford Synchrotron Radiation Lab (SSRL). This facility has the broadest scientific program with the closest ties to industry. He warmly introduced Associate Director Artie Bienenstock to talk about the non-high energy physics research efforts.

Artie reviewed the research efforts using the SPEAR ring that revolutionized x-ray science. He highlighted research in biological phenomena at the fundamental level: crystal structure of myosin leading to greater understanding of how muscle works; inhibitors to production of the HIV virus as potential future drugs; and greater understanding of human growth hormones. He noted that current studies at SSRL of plutonium and uranium in Hanford sludge have helped lead to the design of more efficient cleanup procedures.

Artie closed by describing a future machine combining the

linac with a new instrument called the linac coherent light source to create a beam with one thousand times the brightness of anything currently in existence. This could lead to a whole new set of revolutions in science. “We have the extraordinary luck to participate in such extreme endeavors to understand and improve what is technically possible and achievable,” said Artie.

Following a bountiful dinner and leisurely remembrances among friends, the ceremony started with the junior contingent. The 20-year recipients received commemorative ‘73 biographical yearbooks, keepsakes with the SLAC and Stanford emblems, and their Stanford University service pins. The 30 year honorees were each presented with a ‘63 photographic yearbook and a beautifully mounted beam tree—a rare and distinctive treasure.

Dal Miranda received honorable mention—he was absent owing to his devotion to Stanford University women’s basketball (Stanford 81–No. Carolina 71).

—Nina Stolar

Stanford HELP Center at SLAC

KEVIN CARR, LM FCC, the on-site Employee Assistance Program counselor from the Help Center, is available to consult SLAC personnel on a wide range of problems including relationship difficulties at home or at work, personal crisis relating to illness or death of family members, problems with children or adolescents, conflicts with colleagues, or plain old-fashioned stress. Make an appointment by calling the Medical Department at ext. 2281. Kevin is on site Tuesdays from 8:00 AM to 3:00 PM.

Help Center Workshops

Tuesday, June 13: *Making of Frosh:* A film about the experiences of freshmen at Stanford.

Dan Geller-Dayna Goldfine
Documentary Filmmakers

Monday, July 10: Binge-Eating.
Kathleen Eldredge, Ph.D.
Stanford University
Dept. of Psychiatry

Wednesday, July 19: Folktales for Times of Transition.

Kevin Carr, LM FCC
Stanford University
Help Center Counselor

Wednesday, July 26: Caring for Elders.

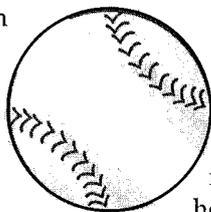
Boo Bullis, LCSW

To make a reservation or for information on times and locations please call 723-4577 three weeks prior to event. The Stanford Help Center provides free, confidential counseling services to faculty and staff of Stanford University, Stanford Health Services, Lucile Packard Children's Hospital, and SLAC. Workshops are held from 12 noon to 1:00 PM at Tresidder Union.

SLAC's Day at the Stick

THIS YEAR we have an extra-special treat—for the first time ever we are going to see the SF Giants play; the LA Dodgers.

Also, the Giants will pay special tribute to the Negro League. Former great Negro ball players, such as Hank Aaron, Willie Mays, and Buck Leonard, some of whom played in both the old Negro League and the Major League, will be there.



Come join us at the Stick on Sunday, August 6. Tickets for the game are \$6.50 each, with seating in the upper reserved section behind home plate. As always, buses will be provided. More information and sign-up sheets will be distributed soon.

Last year we had a great crowd—we hope to see everyone again this time!
—Al Ashley

Welcome Guests and New Employees

Derrick Britt, Mechanical Design; **John Fry**, ES&H Safety, Health & Assurance; **Zenghai Li**, Theory & Special Projects; **Xin-tian (Eddie) Lin**, PEP-II B Factory; **Sharon Minton**, BSD/Information Resource Mgmt & Technology Transfer; **George Mount**, SSRL Research; **Manuel Ortega**, Experimental Group C; **Raymond Russ**, ES&H Operational Health Physics; **Vinay Srinivas**, Accelerator Theory & Special Projects; **Clara Stevens**, ES&H Waste Management; **Kathleen Thornton**, ES&H Operational Health Physics; **Keith Wise**, ES&H Radiation Physics.

Sixth annual Juneteenth celebration

THE BLACK ASSOCIATION of SLAC Employees, (BASE) is celebrating its Sixth Annual Juneteenth. This celebration recognizes the talent and contributions of African Americans.

Juneteenth was a five-day period in June when news of the Emancipation Proclamation (signed in January 1863) reached the slaves in Texas and a few other southern states, as well.

This year's theme for Juneteenth is "Passing the Torch," commemorating the legacy of struggle, survival, sacrifice, and success of African Americans. This theme reminds us to hold on to the solidarity within the Black community, to remember the rich contributions of our ancestors, and to cherish the dedication and support of our families. It encourages us to look to the future but never forget the legacy of the past. Throughout the celebration there will be entertainment, African-American displays, door prizes, and a good old fashioned Texas barbecue.

The cost is \$10.00 for adult tickets and \$5.00 for children twelve and under. Posters and flyers will be distributed indicating where to purchase your tickets.

BASE members wish to extend an invitation to all SLAC employees and their families to join us in celebrating Juneteenth on Friday, June 16 from 3:30 to 6:00 PM in the cafeteria picnic area.

Come celebrate with us!

—Glenna Stewart



Cherrill Spencer

Daughters, from page 1



P.A. Moore

Cathie Dager, a scientific programmer, "the girls were really interested, especially in the amount of education that was required for the various jobs. I was especially interested in talking to them about choices; since I have a career and a family and the I have chosen to work half time. I wanted them to see an option."

The girls enjoyed hands-on activities that gave them the chance to learn about several aspects of working at a high-energy physics lab. For example, the borescope used to identify objects in a box soon turned into an exercise in counting cavities and looking at tonsils on the television monitor.

"This is cool," said one girl, "can you use this to spy on someone?"

Another "experiment" attempted to demonstrate how hard it was to determine the shape of an atom you can't see. The blindfolded girls "probed" mystery objects with a roll of paper towels.

"What can you tell me about your 'atom'?" asked physicist Dianne Yeremian.

"It has a handle and it's clunky," was the reply.

The "hands-on" approach was emphasized by Dana Millican, a mechanical technician in the heavy



Don Arnett

Top: Over 60 girls and their hosts gathered for a group photo before dispersing for the afternoon. Center: A Vacuum Equipment Workshop team checks vacuum equipment for leaks. Bottom: Girls visiting the Central Lab machine shop helped make a unique memento of the day.



fabrication shop. "The girls wanted to touch stuff, push a button, make it move. Then they could relate to it."

An unexpected benefit from the day was the chance for many SLAC staff to meet each other and find out what each did in different parts of the facility.

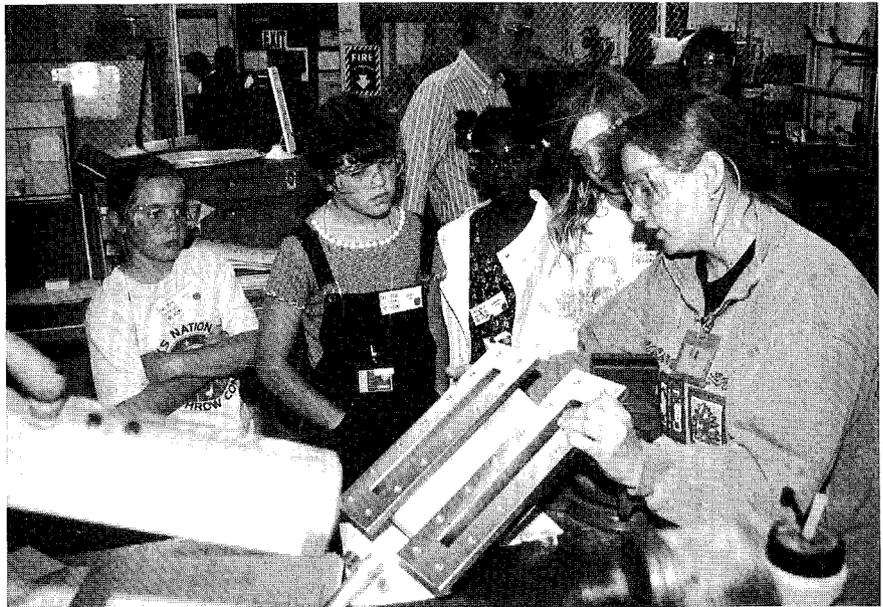
"We got as much out of it as the girls did," said Stephanie Carlson, business services manager for SSRL.

Five girls visited the Technical Publications Department where they collaborated to build a series of World Wide Web pages. You can use this URL to view the pages: <http://www.slac.stanford.edu/winters/pub/www/education/TODTW/TODTW95.html>.

—Jon Rosell

Top, left: A borescope (a tiny camera on a long cable) is used to identify objects hidden in a box in the Accelerator Workshop. Top, right: Blindfolded girls used unlikely objects for a better understanding of how hard it is for scientists to identify sub-atomic objects.

Center and bottom: Additional attractions were departmental Open Houses. Visitors to the Central Lab Machine Shop learned how components of machines are actually built on site.



A SLAC Tour in the works



HAVE YOU SEEN MORE of the laboratory than your desk top recently? Do you know what's inside the two-mile-long building under Highway 280? For the answer to these and other exciting questions, take a SLAC tour! The SLAC Tour Program hosts over 10,000 visitors from throughout the world every year. It only takes a phone call to the Public Affairs Office (ext. 2204) to save your seat on the next public tour.

Visitors start out in the Auditorium for an orientation talk, followed by a bus tour of the site. Tours take two hours and are free of charge as a public service. Special group tours can be arranged by calling Pauline Wethington, SLAC Tour Coordinator (ext. 2204).

Public and group tours are conducted by graduate students working on various research efforts at the lab. Graduate students interested in serving as tour guides can contact Pauline for details.

The SLAC Public Affairs Office has hosted tours and events featuring heads of state and the international community. Recent highlights include: the visit by the Imperial Couple of Japan (June 1994), Secretary of Energy Hazel O'Leary (January 1994), and many

government representatives. More recently we have hosted visits by university students and embassy officials from France, Japan, India, and Switzerland.

Visitors are not restricted to the formal tour program; laboratory staff bring friends and associates to see the inner workings of the lab. The Public Affairs Office staff can provide an informed guide for a group tour with the benefit of a group dosimeter badge and transportation provided. However, please plan these requests ahead of time as these services are very popular.

Special tours are often supported by the volunteer effort of laboratory staff. One example is the annual Stanford University Commencement tours. On one sunny day in the middle of June, twenty-something staff members gather along Sand Hill Road to jump on a charter bus for a quick ride-through visit. About 2,000 friends and family of graduating Stanford students see the lab on this day each year. If you are interested in serving as a volunteer guide for site visits, contact Nina Stolar (ext. 2282).

The Public Affairs staff extends many thanks to those of you among the lab staff who have

served as an escort for an international visitor, a member of the press, or a photographer. Equally important are the many times people are interrupted at their work stations to explain the intricate technical process or equipment they work with. This support is crucial and enables the laboratory to serve as a gracious host for our many visitors, committee members, and government representatives from the international scientific community.

—Nina Stolar

Reaching for the stars...



SLAC Personnel Department

YVETTE LADD, a former employee of SSRL, is on her way to achieving her long-time goal of singing professionally—she successfully auditioned for the job of background vocalist with E.C. Scott, a new R&B recording artist. When Scott begins a three-week engagement tour in June, Yvette will be part of the group. Congratulations, Yvette, and much success in your new singing career.

—Claudia T. Ransom

Dr. Margaret says good-bye after eight years

EIGHT YEARS AGO I came to SLAC to stay. I had been your fill-in doctor on and off for several years so I had some idea what I was getting into, but I never pictured myself retired! I still don't, really, as I have many plans. Being a doctor is who I am, not what I do! The decision has not been an easy one. But I have made it and there will be a new doctor in the medical office as of June 1.

I am a goal setter and a planner—some would say a controller! Before I ever came to work on the first day of my tenure here, I had decided on three goals. They were:

1. To see to it that you got the updated clinical facility for on-site care that you deserved;
2. To try to teach you to take sensible optimal care of yourselves, and;
3. To maneuver you onto peak health by the time you retire so that you could fully enjoy the years you have earned with your hard work.

I give myself mixed reviews as I look back. I certainly annoyed many as we campaigned, cajoled, and ultimately got, a first-rate physical plant to offer care in. It was worth it! The truth is, the staff at the time, Joan Dammann and Marion Lisotto, took the brunt of the disruption, and we didn't miss a single care day.

We have struggled mightily to provide education designed to put you in charge of your health. Eileen Derr got us started and now



Photo courtesy of Country Almanac

Dr. Margaret Deanesly

Sylvia Ong carries this torch. You are not very responsive! Have we failed? I think not. Rather I think that maybe we are "preaching to the choir". Most of you are very healthy and until an illness befalls you, you think you have better things to do with your time than listen to us go on and on about dreary things like diet and exercise! But you will not grind us down! As medicine changes in this nation, you will be forced to turn to self care more and more. We will be there because we care!

That brings me to my last goal, of encouraging peak health at retirement. This takes work, not only on your part but on ours. I leave you in most capable and

delightful hands with my wonderful nurses Virginia Arezone and Gloria Labrador and dear Sharon Cone on the front line to see to your needs.

I see many of you who are not retiring because you have nothing to retire to. So I take this opportunity to teach (preach?) something to you. You, as I, richly deserve your flexible, elective, non-work-committed days. Please begin today to interest yourself in a hobby, pursuit, crusade, or activity other than SLAC. No matter your age, now is the time to do so; then you will have something to look forward to when retirement time comes for you. For your mental and physical health (and that of your spouse, may I add) you MUST have something to get up for each day in order to flourish.

Me? I don't know where to begin. I will play my piano more. I will read, travel, and exercise without having to stop "to go to work". I will teach and speak where bidden. I will get my house in order. I will do all those things I have denied myself during 32 years of medical practice. And I will reflect on the remarkable privilege of being your doctor for eight years, sharing your joys and sorrows as you did mine. How you stretched my brains with your amazing projects. You have been a marvelous challenge, and I will miss you!



—Dr. Margaret Deanesly

Making changes to serve you better

Intake desk for Technical Publications

THE TECHNICAL Publications department is realizing a long-awaited goal. On June 1, when the rearranging, hammering, and sawing are finished, a Technical Publications Intake Desk will open to serve as the point of contact between the department and the SLAC community.

Starting June 1 anyone needing assistance with computer graphics, document production (editing, formatting, pub numbers), or electronic publishing, should go to the new dutch-door entrance to the Intake Desk, located immediately

outside the old entrance to Publications. The Intake Desk will be staffed from 8 AM to 5 PM Monday, Tuesday, Thursday, and Friday. On Wednesdays the hours will be 10 AM to 5 PM to accommodate a weekly staff meeting. You can call ext. 4134 after June 1 for answers to questions about documents or graphics.

The Intake Desk is intended to streamline the way publications and information move through the department, and provide one-stop shopping for our clients.

—Evelyn Eldridge-Diaz



Did you know...

-  SLAC's Hot Topic for May is *Reshaping the Graduate Education of Scientists and Engineers*, a Committee on Science, Engineering, and Public Policy report affecting the preparation of scientists and engineers. You can see it at <http://www.nas.edu/nap/online/grad/index.html>
-  SLAC has engaged upon a major redesign of its URL names over the next few months. See "Major Changes to SLAC WWW: Migration" at <http://www.slac.stanford.edu/FIND/wwwstat.html#The Great Spring '95 Page Migration>
-  An online report about the April 27 Take Our Daughters to Work Day at SLAC events is available at <http://www.slac.stanford.edu/winters/pub/www/education/TODTW/TODTW95.html>
-  A Portable Document Format (PDF) version of *Beam Line*, SLAC's periodical of particle physics, is viewable at <http://www.slac.stanford.edu/pubs/beamline/beamline.html> Web users who wish to see the issues will need a Macintosh, PC, or Sun computer with a WWW browser configured to launch the Adobe Acrobat Reader as a helper application.

All meetings are held in the Orange Room, unless another location is listed. Larger meetings and conferences have a contact listed. Please notify the Public Affairs Office of any additions or changes by calling ext. 2282 or sending e-mail to nina@slac.stanford.edu.

June 6-10

Heavy Flavor Meeting
Pisa

June 8 and 15

NLCTA Review
PEP-II IR-8 Conf. Room

June 9-10

Tutored Video Workshop
H. Quinn, P.A. Moore

June 10, 1:00 PM

Theory vs. Experiment
Softball Game
The Green

June 12

BaBar Technical Board
TBA

June 13

BaBar Joint Executive/
Technical Board
TBA

June 14

SU Alumni Assn. Workshop
Auditorium

June 15, 8:00 AM-3 PM

SUBB Mobile Blood Drive
Auditorium Lobby

June 14-16

BaBar Collaboration Meeting
Liverpool
D. Hitlin, V. Luth, A. Pacheco

June 16, 3:30 PM

6th Annual Juneteenth
Cafe Picnic Area

June 17

SU Commencement Tours
Mem Aud, Campus

June 19-30

Science Teachers Workshop
TBA
H. Quinn, P.A. Moore

June 25-August 19

Summer Internships in
Science & Engineering/SSP
TBA

C. Figueroa, UCSC;
K. McClenahan

June 26, 7:00 pm

OS/2 Users Meeting
Auditorium

EVENT CALENDAR: June 1995