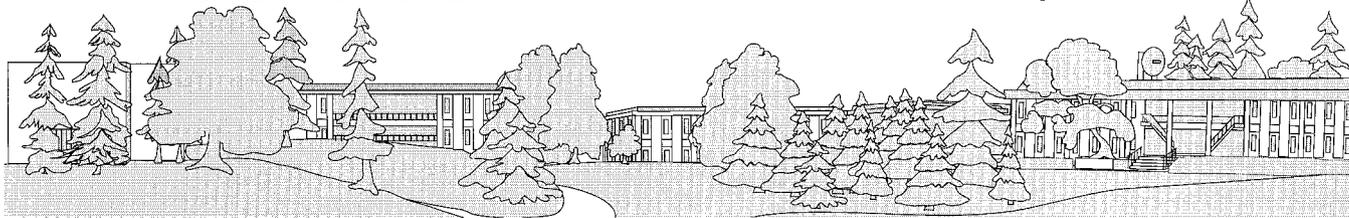
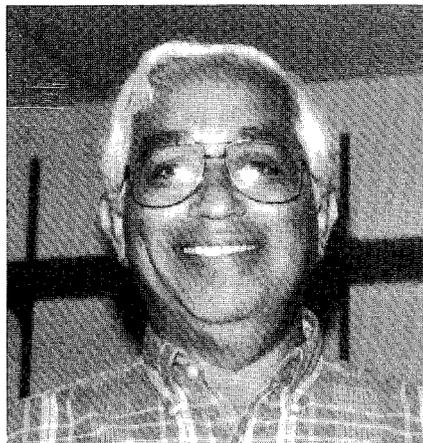


The Interaction Point

Events and Happenings
in the SLAC Community
August 1995 Vol. 6, No. 8



Genova, Ipe New Department Heads



Courtesy Len Genova

Len Genova

LEN GENOVA became head of the Power Conversion Department (PCD) on May 11—the most recent step in a career at SLAC that will span 30 years in September. Len replaces Alfredo Saab, who returned to an engineering position in PCD

Sicilian by birth, Len moved to the United States when he was 15 years old. He received his Bachelor's degree at City College of New York and a Master's degree in Electrical Engineering from the University of Santa Clara.

Len first worked for SLAC in the Electronics Department, and later became a group leader when the Power Conversion Department was created in 1988. One of his early contributions was to design power supplies for quadrupole and corrector magnets in the linac. He also designed pulsed magnet power supplies for the A line and PEP, blowtorch-quad power supplies for SLC, and silicon-controlled

rectifier power supplies for various facilities.

Len has been praised by colleagues for keeping a tight rein on costs. He is noted for being able to get the most from the least amount of expenditure. In these times of tight budgets this is indeed an admirable trait.

A world traveler, he has visited Indonesia, Thailand, Japan, New Zealand, Morocco, and China. He loves baroque and renaissance music, and reading. In fact, Len's book collection is so extensive that it took several weeks to restore it to order after the Loma Prieta earthquake.

Len's son, Michael, practices medicine in the Los Angeles area. His daughter, Christine, plans to attend law school next year.

—Wes Asher, Martin Berndt, and Ruby Lai

ON JUNE 1 Nisy Ipe assumed her responsibilities as the new Department Head of Radiation Physics, taking the place of Ken Kase, who was promoted to Associate Director of ES&H. Nisy, whose name means "banner," is once again leading the way, as she did in high school and college. Always an athlete, she used to carry the school's banner into the stadium, leading her schoolmates into the fray.

Nisy, who is originally from India, began her career in science in the ninth grade, when she had to choose between science and the arts for her field of study. She went on to receive a Masters of Physics degree from Madras



Courtesy Nisy Ipe

Nisy Ipe

University in India, and a Ph.D. in Health Physics from Purdue in Indiana.

Since arriving at SLAC, Nisy's responsibilities have included shielding design and radiation safety at SSRL, SLC/SLD, and PEP-II. She was also instrumental in the development and implementation of the formal radiation safety training programs for radiation workers and general employees, and is the site Radiation Safety Officer.

Nisy has participated on various review committees at other DOE facilities and has served on the DOE panel for the Health Physics Faculty Research Award. She has chaired and organized technical sessions at various national and international conferences. She is an associate editor of the Health Physics Society and a past president of the Accelerator Section of the Health Physics

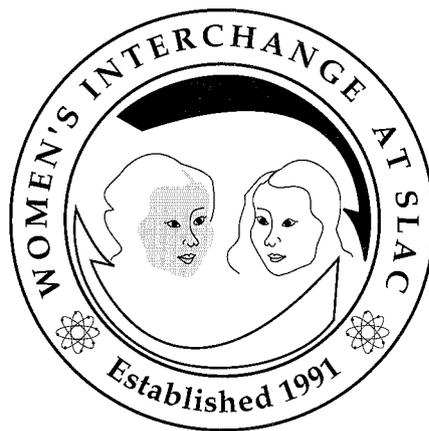
See **Promotions**, page 2

WIS contributes much to SLAC community

IN JANUARY 1991 the co-founders of the Women's Interchange at SLAC (WIS) did not know how far-reaching their efforts to involve the SLAC community would be. At that time Janet Dixon, a manager in the Telecommunications department, and Valerie Phillips, Travel manager, simply planned to gather a group of people for the purpose of discussing issues of importance to women.

From that initial meeting WIS has evolved into an unofficial but effective voice for SLAC women in particular and SLAC employees in general. WIS is unofficial in that it has no elected officers, no dues, and no by-laws. It receives no funding from its members or from SLAC management. Yet in its short existence it has consistently organized a monthly public seminar and a monthly planning meeting. Both meetings are open to anyone in the SLAC community and are held during the lunch hour. Anyone who wishes to may attend the WIS planning meetings, held the second Wednesday of each month. The time and location of the meetings is announced in the news-group WIS-L.

For the seminars, WIS calls on experts at SLAC, from Stanford, and from the community at large. A seminar on the World Wide Web



(held in 1993 before the Web became a household word), conducted by Louise Addis, SLAC's former librarian, drew a large crowd of over 70 participants. An even greater number of people attended a lecture by Susan Faludi, well-known feminist and a Knight Fellow at Stanford at the time.

Seminars on child care sponsored by WIS have had far-reaching effects: a parents' group and a task force were formed to study the issue of on-site child care. Survey results showed that on-site child care was needed, however, SLAC is not financially able to provide such a facility at present.

A major contribution to the SLAC community is the annual Take Our Daughters To Work Day. This event was initiated through the determination of Evelyn Eldridge-Diaz who wanted

her two daughters to have a chance to explore non-traditional careers. Through Diaz's persistence, large groups of volunteers from SLAC cooperated to host successful Daughters Day events in 1994 and 1995.

WIS seminars are sometimes technical in nature; for example, Professor Pat Burchat spoke about the Standard Model of Particle Physics. On another occasion the topic was the impact of domestic violence on the workplace. Myra Strober, a Stanford faculty member, spoke on feminist economics.

WIS founder Dixon put it this way, "I think WIS has introduced not only a wide variety of topics of current interest, but also brought up topics that are cutting edge. We think that it is important to notice these emergent issues and give them a larger forum in which to be aired." When asked about the future of WIS, co-founder Phillips said, "Regardless of gender, there are issues which we need to talk about as concerned and literate citizens. I hope that WIS continues to provide that opportunity."

If you have a topic you would like to see addressed in the WIS seminars, contact Cherrill Spencer at MS 12 or send e-mail to cherrill@slac.stanford.edu.

—P.A. Moore

Promotions *Continued from page 1*
Society. She recently spent six months at Argonne National Lab helping to design shielding for the Advanced Photon Source Synchrotron Radiation beam lines.

She formed and chaired a committee of DOE contractors to address concerns related to the implementation of the DOE Accelerator Safety Order. She was

also the founder and first editor of the *International Accelerator Radiological Protection Electronic Newsletter*, and has a number of publications in scientific journals. She is currently participating in a research project to develop a low energy x-ray dosimeter.

Nisy lives with her husband, David, who is a biostatistician at Roche Bioscience in Redwood City.

In her spare time she enjoys walking and working out in the gym. She also bakes and teaches Sunday school. When asked where she gets her motivation, Nisy replies that she has always taken her philosophy from Ecclesiastes 9:10: "Whatever your hand finds to do, do it with your might."

—Gene Holden

Humdinger construction on target

AT A RECENT SCIENCE education conference in Monterey, SLAC physicist Helen Quinn helped construct a humdinger: a gizmo that "hummed" when a string was pulled and "dinged" when the string was released. Developing gizmos is somewhat outside Quinn's normal role as a theoretical physicist, but it is very much a part of her role as Assistant to the Director for Education and Public Outreach.

This demonstration for teachers and administrators from the Oakland Unified School District was an example of the type of hands-on activity that students can do in the classroom. The activity teaches students a number of important concepts that are practiced by scientists: how to take risks, how to

work together in small groups, and how to share ideas. They also learn the scientific process of building a model, testing it, and then refining it.

Steve Luntz, an elementary teacher from Thornhill School, said "I really got into building that humdinger. I would like to do it again and really get it right. I've worked out an amazing alternate design."

Training in hands-on science activities gives teachers and administrators a better understanding of the issues and obstacles in implementing such programs in the classroom. Some of the issues include purchase and maintenance of science kits, training for teachers, and family involvement in a child's science education. Ideas for



Concentration is all. Jeanette Ford-Soon, a teacher at Thornhill School in Oakland, adjusts the dinger.



It takes at least three people to make a humdinger: Janet Clayton, Vice-Principal of Hawthorne Elementary School; Helen Quinn, theoretical physicist at SLAC; and Sylvester Hodges, President of the School Board of Oakland Unified.

addressing the problems were developed and will be tested during the school year as part of the follow up to this conference.

The conference was part of SLAC's five-year partnership with Oakland schools to help upgrade the science curriculum and the professional development of teachers. The partnership, called BASTEC (Bay Area Science and Technology Consortium) is funded by the Department of Energy. Other DOE labs involved in the partnership are Lawrence Berkeley, Sandia, and Lawrence Livermore.

—P.A. Moore

Welcome Guests and New Employees

John Abramo, Controls; **Bhaskar Dutta**, Theory; **Jostein Grepstad**, SSRL; **Sang June Hahn**, SSRL; **Sebastien Incerti**, Experimental Group A; **Chad Jennings**, Experimental Group K; **Evan Keith**, Theory; **Henning Krueger**, Experimental Group B; **Dawnyell Maxson**, Accelerator Theory and Special Projects; **Giulio Menegatti**, SLD; **Arvind Rajaraman**, Theory; **Jan Rehacek**, Klystron; **James Smith**, Environmental Protection and Restoration; **Michael Starkey**, Metrology.

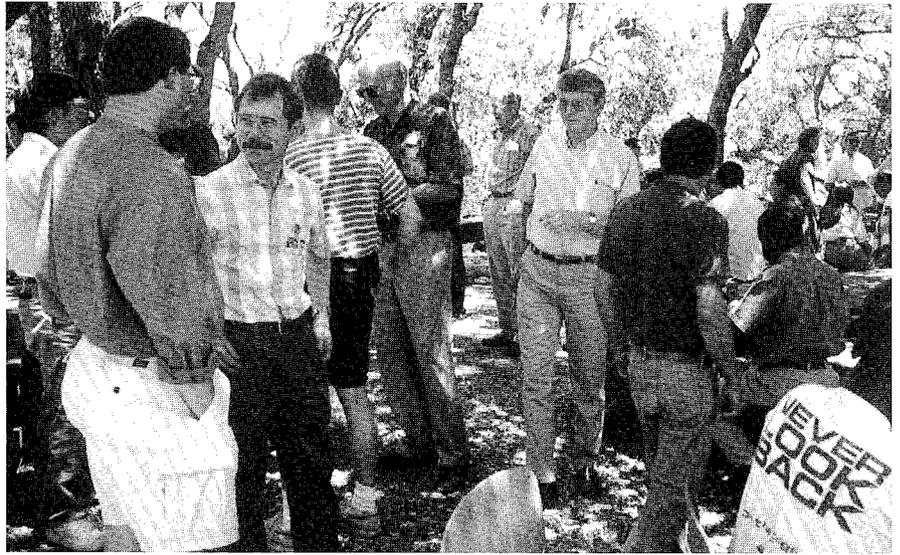
CORRECTION: On page 5 of last month's *Interaction Point* the caption of the photo of the winning team accompanying the article about the Experiment vs. Theory softball game mistakenly claimed a Theory victory. Anyone who read the article would know the score: Experiment 13, Theory 5.

PEP-II's summer 1995 rally rewarding

THE PEP-II ENDEAVOR is a collaboration of the three large San Francisco Bay-Area DOE laboratories—SLAC, LBL, and LLNL. All phases of the work are shared, be it design, procurement, fabrication, or installation. Coordination of this work represents a rather formidable organizational challenge. One way to maximize the success of this work and to promote a team spirit is to hold a bi-annual, one-day PEP-II Rally. The third such rally was held July 14.

The idea of the rally is to bring together, in a casual setting, as many of the three-lab PEP-II personnel as possible. Typically the event starts mid-morning with a series of progress reports, followed by a hosted lunch and a tour of interesting PEP-II work sites. Unscheduled time during the day allows relaxed mixing between co-workers. Special emphasis is placed on enticing the fabrication staff to the Rally. On July 14, by special agreement with SLAC management, all members of the SLAC shops were given time off to join the lunch and subsequent tour of PEP-II work sites.

The July 14 rally started with



PEP-II collaborators conversing over lunch at the Sector 6 picnic area.

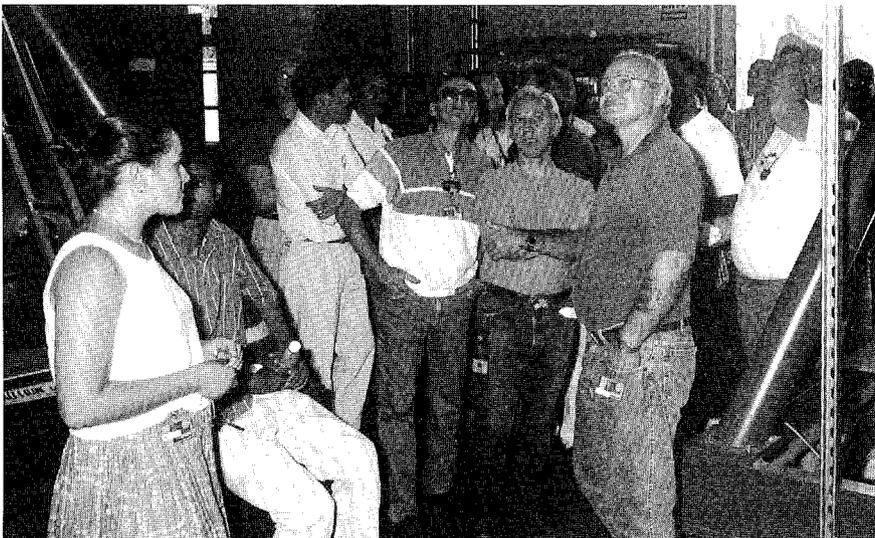
status reports from the Injector, High-Energy Ring (HER), and RF Systems. These reports emphasized the progress that has been made in bringing all three systems to the fabrication phase; indeed the HER and injection systems are already in the installation phase.

Installation of the electron extraction line and the electron and positron bypass lines are nearly complete, according to Elliott Bloom's report on the injection

system. Checkout for electron extraction and transport will begin this fall.

Almost all the PEP magnets in the High-Energy Ring have been refurbished and re-measured. Magnet supports are arriving and are being installed along with the dipole magnets, and electrical installation is moving ahead on schedule. Vacuum extrusions have been received from the vendor and are in fabrication. Uli Wienands was pleased to announce that the High-Energy Ring remains on schedule for checkout in spring 1997.

Bob Rimmer summarized progress for the rf system, saying that most first articles are in high-power testing. As of this writing, the 1.2 MW klystron, the cavity, and the cavity window have all met or exceeded their operating specifications. The cavity is a particularly good example of the melding of the technical strengths of the three collaborating labs; each lab contributed to the success of this challenging venture in a crucial way. The procurement



Courtesy PEP-II.

The tour included a visit to the the klystron test lab where the klystrons for PEP-II are being worked on.

Continued on p. 5

Continued from p. 4

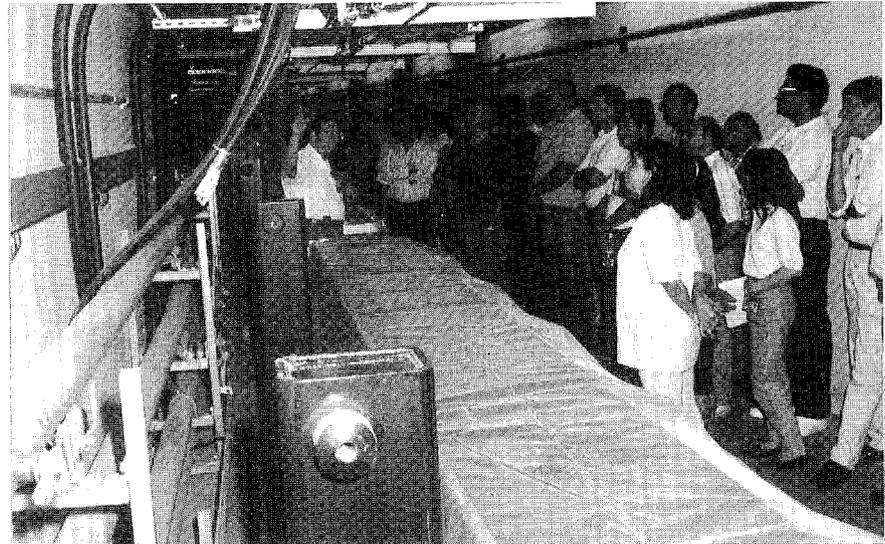
process for the rf system is well along; the klystrons, circulators, and cavities are all ordered and in fabrication.

After the reports, 350 coworkers enjoyed lunch and informal socializing under the trees at the Sector 6 picnic area. The weatherman chimed in with a picture-perfect day.

Following lunch, four busloads of PEP-IIers, spaced about 10 minutes apart, enjoyed a guided tour of some of the major PEP-II work sites. The tour provided many of the PEP-II personnel an opportunity to see the fruits of their labor in the installation and test phase. For some it was their first visit to the PEP tunnel.

Based on the enthusiastic comments received from many of the participants, the July 14 Rally was likely our most successful to date. Future Rallies are planned for both LBL and LLNL, where much of the fabrication will start soon. The PEP-II administrative staff are to be congratulated on their exceptional organization, which allowed a crowded day to proceed very smoothly.

—Jonathan Dorfan



Courtesy PEP-II.

Collaborators view the new magnets recently installed in the PEP-II tunnel.



Courtesy PEP-II.

Part of the value of the rally is a chance to relax and visit with colleagues from other sites.

Commute Mobile: coming early September



RIDES for Bay Area Commuters, the region's nonprofit ridesharing agency, has created a Commute-Mobile. The 27-foot long exhibit is coming to SLAC on Wednesday, September 6. Watch for it parked in front of the cafeteria.

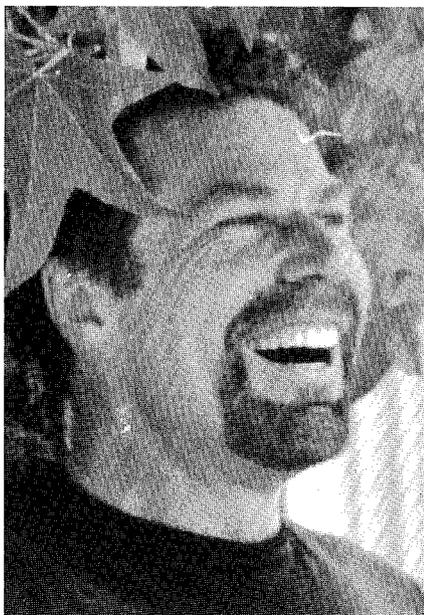
The CommuteMobile is full of information about biking, telecommuting, Park & Ride lots,

commuter lanes; you name it, it's all explained there in schedules, brochures, and other free material. Employees will receive personalized help to plan their commute and solve transportation problems. They'll get a free "matchlist" of potential carpool/vanpool partners as well as specific details on route planning and finding the best mode of travel.

Commuting isn't getting any easier, in fact it is predicted to become more difficult in future years. Find help inside the CommuteMobile where the colorful, entertaining, and interactive walk-through exhibits make it easier for visitors to make decisions about their commutes.

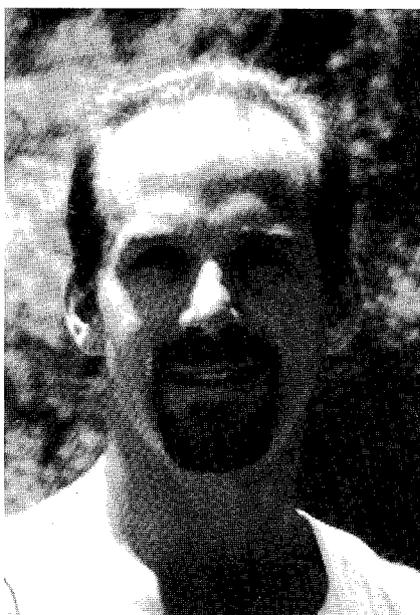
—Bernie Lighthouse

Hair We Grow Again...



Gene Holden

Jack Hahn, before the game.



Gene Holden

Keith Reynolds, before the game.



Gene Holden

Gloria Labrador, Chief Cosmetician, left, and Virginia Arezone, Chief Barber, wielding some tools of the trade.

WHEN SPRING IS IN BLOOM, young men's thoughts turn to...sports. Baseball, volleyball, biking, surfing, swimming, hiking, you name it. Once in a while this love affair can become a grueling adventure, a true challenge. And when is a challenge more than just a challenge? The answer: when it involves facial hair, or the lack thereof. The game—volleyball. The challenge—the two captains would field a team of volleyball fanatics (fans) from the ES&H division. The "prize"—the losing side must buy pizza for all—and the captain of the losing team must shave his beard.

The two contenders were from the ES&H division. They were: Jack Hahn, Safety, Health, and Assurance (SHA), and Keith Reynolds, Planners, Editors and Trainers (PET).

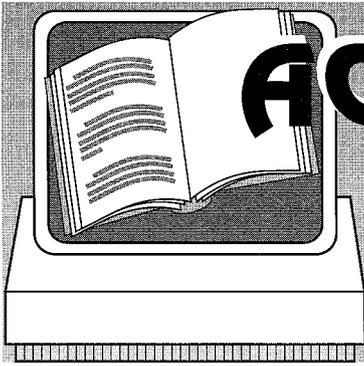
The date (May 11), place (A&E lawn), and time (12:06 PM) for the contest were agreed on. Both captains frantically put together a team, with each side taunting the other about the possibility of losing; side bets between the two teams became common.

The morning of the contest arrived in glorious shades of pink and rose. It was a fine day to shave. Opening ceremonies began at precisely 12:06 before the crowd of spectators. The Master of Ceremonies, Judy Nowag, introduced the two team captains. The next to be introduced were The Impeccably Impartial Game Officials from OHP: Eddie McGee, referee; Roger Sit, score keeper; and Michelle Silvestre, time keeper.

And last, but not least, the ES&H Tonsorial Team was introduced. They were charged with ensuring that the shaving ceremony was in

See **Beards**, continued on p. 7

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ACCESS TO INFORMATION

Check your directory listings for errors

TELECOMMUNICATIONS has recently noticed an increase in the number of SLAC telephone directory entries with missing or outdated information. Missing or incorrect information poses a problem to people, on-site and off-site, who try to contact an employee. Since Telecommunications accesses the same directory information as you, they can do little to help find an employee, no matter how urgent the call.

Check the completeness and accuracy of your name (spelling),

extension, location, department in the SLAC directory listing. This is especially important if you are new to SLAC or if you have recently moved or changed departments.

You can verify this information using the `binlist` command on VM or the `person` command on UNIX. For example, at the command line on VM if you type

`binlist price, david l.` you will see information on your computer screen about David Price's mail stop, telephone extension, building and room numbers,

group identity, pager numbers (if any) and e-mail address.

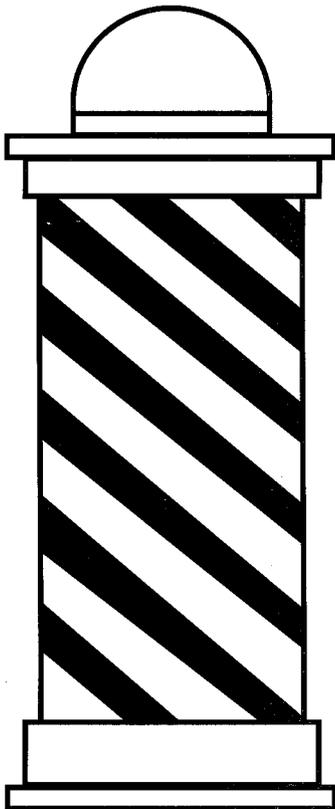
To receive similar information on a UNIX machine, at the command line type

`person price, david l.`

If you need to make a directory change, submit your order through your ATOM or other person who is authorized to make changes for your department. Directory-only orders are normally completed within one to two business days.

Thanks for your help in getting this information updated.

—Brenda Eberle

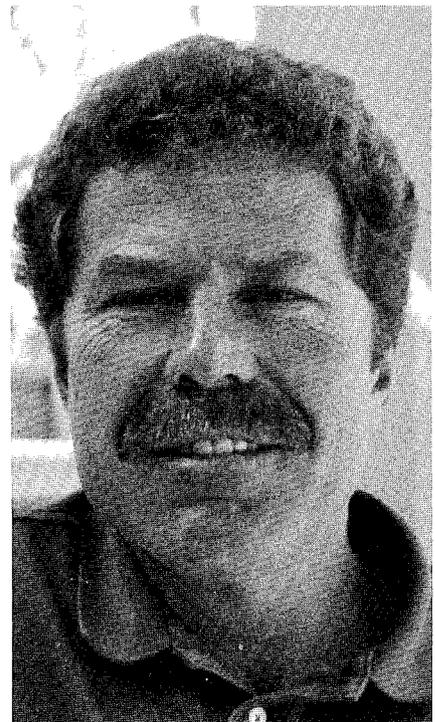


Beards, continued from p. 6

compliance with all OSHA codes, rules, and regulations. Gloria Labrador, Chief Cosmetician, carried an (almost) full complement of bandages and a mirror. Ann McKillop was the Chief Basin Bearer (bed pan containing soap and water), and Virginia Arezone was the chief barber.

And then the moment was at hand. It was time to see—who would shave. After two 15-minute halves in the grueling sun, the final score was 42–13. One captain lost more than the game...for the end results, see the photo, right.

—Gene Holden



Gene Holden

Beardless Jack Hahn, after the game.

Pests...Pests...Pests...

THE GOOD NEWS IS that SLAC occupies one of the most beautiful locations in the Bay Area. From our hillside we have an excellent view of Palo Alto, the Hoover Tower at Stanford University, and a breathtaking panorama of the south bay. The bad news is that SLAC shares the site with many of Mother Nature's other living creatures.

Ants...Ants...Ants...

Are ants invading the empty beverage recycling container in your area? Is the beverage recycling container still inside? Are you storing your own empty beverage containers under your desk? Is your candy, coffee creamer, sugar and food in a closeable container, or is it open to tiny invaders?

Many of the ant problems can be alleviated by keeping the area free of alluring elements. Two years ago, the A&E building had ants downstairs in the vending area. Ants were all over the empty beverage recycling container. The recycling container was moved to a location just outside the exit door; no other prevention was taken. The very next day the ants had followed the container outside. This simple remedy worked. However, if our pest control company had been called to spray for ants, the ants would have come back.

If, however, this solution does not solve your ant problem, SLAC Stores carries Raid™ and Combat.Ant™.

These products are very effective. A Material Safety Data Sheet is provided when you receive

the product. Other products that work on contact but do not have a residual effect are: Simple Green™, Windex™, or any other ammonia-based product.

If you are continually overrun by ants and have tried all the above, ask your building manager to call Lana Smith in Facilities, ext. 2207. A pest control contractor will be sent to spray the exterior and/or interior of your building. NOTE: After the building has been sprayed it must be evacuated for eight hours.

Mice...Mice...Mice...

SLAC is also overrun by these pesky little critters, who are becoming bolder and bolder. They've actually been seen eating right under a desk where someone was sitting. Again, a simple remedy is to keep food containers covered.

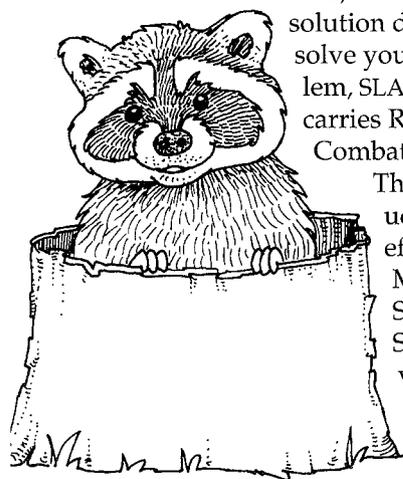
Mouse traps and peanut butter are available in the Facilities office (A&E building, room 232). These varmints love to eat peanut butter, and traps can be set where appropriate. When a mouse is caught, call Lana Smith, ext. 2207 to have it removed.

Other Animals...

Rats require a bigger trap. If you have a problem with rats, call Lana Smith, ext. 2207 to arrange for a pest control contractor to set traps.

Many other wild or feral animals share our site; it is not uncommon to see deer, possums, raccoons, foxes, wild cats, and skunks at all times of the day and night. Do not approach any wild animals, as they may be dangerous. Instead, call Lana to arrange to have the Humane Society pick up injured or annoying animals.

—Lana Smith



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. 2204 or sending e-mail to nina@slac.stanford.edu.

September 8-12

Workshop on Physics/Experiments with Linear Colliders
KEK

September 12-14

DOE NLCTA Review

September 15

BES Collaboration Meeting

September 18

BaBar Technical Board
TBA

September 18-22

SLD Week
TBA

September 19

BaBar Joint Executive/Technical Board
TBA

September 20-23

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

September 25, 7:00 PM

OS/2 Users Meeting
Auditorium

September 27, 8:00-4:00 PM

DOE TRAC Meeting
H. Quinn, P.A. Moore

September 28, 8:00-3:00 PM

SUBB Mobile Blood Drive
Auditorium Lobby

September 29

SLUO Annual Users Meeting
Auditorium

U. Nauenberg, M. Helton

September 29, Noon

SLUO Inst Reps Meeting
Training and Conference Center