The Interaction Point

Events and Happenings
in the SLAC Community
May 2000, Vol. 11 No. 4

SLAC is operated by Stanford University for the Department of Energy

Twenty and Thirty Year Awards Dinner

The annual Awards Dinner to honor SLAC employees who reached 20 and 30 years of service was held at the Stanford Faculty Club April 3, 2000.

(l to r) Crystal Tilghman, daughter Tiffany, Anthony Tilghman, Alberta and Ray Larsen after the awards ceremony.

(l to r) Ted Fieguth and Tony King, both 30 year award recipients, congratulate each other as Luda Fieguth, Susan (20 years) and Dieter Walz (30+ years) look on.

(l to r) Rose and Robert Reif.

(l to r) Natalie and Peter Gallego.

(l to r) Eulinia Remerata of Payroll and Arceli Campo.

The twenty-year awardees are: Ron Barrett; Carol Bechtel; Wilevaldo Benitez; Araceli Campo; Felice Catania; James Clendenin; Stan Ecklund; Roger Erickson; Peter Gallego; Levirt Griffin, Richard Goldsberry; Shirley Gruber; Jerry Jobe; Richard Jones; Lillie M. Keefer; Karen Lawrence; John Lindeman; Harvey Lynch; Daniel Paul Manley-Arrieta, Randall Melen; Steven Meyer; Jerry Minister; Michael Mitchell; Kazuko Onaga; Dwight Ost; Rainer Pitthan; Robert Reif; Owen Saxton; Patrick Smith; Carol Tam; Judee Templeman; William Wager; and Susan Hanke Walz. Thirty year awardees are pictured on page 5. See accompanying articles on page 6, and more pictures on page 4.

Director's Corner

by Jonathan Dorfan

Stanford University operates SLAC under a contract between the University's Board of Trustees and the Department of Energy. SLAC is on university land under long term lease to the Federal Government. Both the President of Stanford and the Secretary of Energy have oversight mechanisms which allow them to assess our performance and maximize the effectiveness of laboratory's core research and educational missions. These oversight mechanisms also provide valuable feedback to SLAC.

The Office of Science, which oversees the DOE's $2.7B research program, conducts an annual program review, one for each of its high-energy physics programs and the SSRL light source program. For each review DOE assembles a set of consultants chosen broadly from the US university and laboratory communities. The consultants are augmented by specialists from the DOE.

The high-energy physics Program Review was held April 4-6. The laboratory's achievements during the past year were very well received and the reviews uniformly spoke of the high quality of all aspects of our program. In addition, reviewers strongly encouraged the DOE to support our plans to aggressively upgrade the B-Factory to achieve yet higher performance levels and to support our desire to expand opportunities at SLAC for users who are interested in advanced accelerator R&D. Congratulations go to all the SLAC staff – it's your work which received such a positive review.

The University's oversight mechanism is the Scientific Policy Committee (SPC). The SPC reports directly to the Stanford President and is composed of fourteen eminent scientists drawn from the international community of high-energy physics and X-ray-related sciences. The committee also has strong representation of accelerator physicists, since both our programs rely so crucially on the operation and development of accelerators. Members of the SPC serve four year terms, alternating so that half the committee changes every two years. The committee is currently chaired by Professor Frank Sciulli of Columbia University. The SPC meets twice per year. Its Spring meeting will be held on May 5-6.

In my inaugural address last Fall, I spoke of my strong desire to enhance our scientific vitality through expanded cooperation with diverse campus research programs. Our extensive facilities and our highly specialized and talented staff represent considerable opportunity. Likewise, the human and physical infrastructure on the main campus offer us at SLAC exciting opportunities for collaboration. The recently approved GLAST project is an example of a major scientific collaboration which derives its strength from the combined capabilities of SLAC, the Physics Department and the High-Energy Physics Laboratory (HEPL) on the main campus. I see GLAST as the seed for major cooperation between SLAC, the Physics and Applied Physics Departments in a program of experimental and theoretical Astro-Particle Physics and Cosmology. Researchers from many Stanford departments do their research at SSRL. However, this too could be expanded. The University's recent commitment to the Bio-X program offers some particularly exciting opportunities in the area of structural molecular biology, a fast growing field for which the X-ray source at SPEAR is particularly powerful. The Bio-X program `http://biochem.stanford.edu/biox/index.html` will be located at the Clark Center, a building soon to be constructed on the main campus. We are working with the University to find a way to establish a satellite building, Bio-X West, at SLAC in close proximity to SPEAR.

The SPC will play a key role in helping us to realize expanded research opportunities with the main campus.

Directory Assistance at a Price

ON MARCH 22, 2000, THE CHARGE for LOCAL directory assistance calls (i.e., calls placed to 9-411) increased from 25 cents to 46 cents per call. The rate increase does not affect directory assistance calls for other areas (i.e., calls placed to xxx-555-1212, which are still charged 90 cents per call).

Please use phone books in your department or directory assistance available on websites instead of dialing 9-411. This will keep the overhead costs down for all of us.

Work Safe, Work Smart

There have been no new injuries involving days away from work reported since 1/24/00, according to Sharon Haynes, Worker's Compensation Coordinator. The number of calendar days between then and this update of 4/20/00 is 87 days. SLAC's record number of days between claims remains at 150 days.

The Interaction Point © 2000, is published by Stanford Linear Accelerator Center. Editor-in-chief, P.A. Moore; Production Editor, Vickee Flynn. Deadline for articles is the first of every month. Items are published on a space-available basis and are subject to edit. Submissions may be sent electronically to *tip@slac.stanford.edu* or by SLAC ID mail to TIP, MS 20. Phone (650) 926-4208.

Spaces and Places

AS "SPACE MANAGER," the newly created position at SLAC for managing, analyzing and doing strategic planning of all space requirements, I have been introduced to a wide variety of work. The common thread, from landscape to laboratory space, is the need to communicate with all parties and work together towards a solution. Once these groups meet, most problems are already halfway solved.

My first month was filled with multiple challenges, such as the following major space issues:

- The newly approved GLAST project requires a clean room to be built in an area that is currently occupied by SEM. Various proposals were studied for efficient relocation of parts and equipment. After considering some alternatives, it was decided that shipping containers were needed for storage of some items until they can be permanently moved into a part of the Salvage Warehouse. Responsible parties are reevaluating items that have been in warehouse storage for a long time. Many items will be relocated to a more permanent storage site or sent to salvage.
- The SPEAR III project requires space for testing magnets and other equipment. A portion of the Cryogenics Building was made available for their use. This required investigation of their needs versus the expense of relocating sensitive equipment. The outcome is that only an unused experimental blockhouse will be removed. During a trip inside the structure for a radiation survey, we encountered an amazing variety of decorative spider webs.
- A "Great Wall" (15 feet tall, 3 feet wide and 66 feet long) is being constructed this summer to protect SSRL from Beam Dump East tunnel shielding blocks which could tumble in the event of an earthquake. This project required agreement on the timing and logistics of the installation to avoid interference with SSRL's priorities during their brief installation period.
- Many options are under consideration during the design phase of the new Research Office Building. It will have offices for 150 people and several conference rooms of different sizes. Its location, northeast of the Administration and Engineering Building, near Panofsky Grove, will create a green "quad" area in front of the Cafeteria.

My next major goal is to gather information for the new comprehensive database being developed to indicate details of SLAC space usage. As soon as possible, I will meet with building managers to request information and discuss space issues. I have a deep sympathy for the challenges of building management, having been responsible for the 2-mile long Klystron Gallery for 10 years.

Twenty four years at SLAC has taught me to see the site from many unique perspectives. I have observed the large and small changes that have occurred over the years and I have been fortunate to know the people who have made those changes happen. Each day provides new lessons with different problems and solutions. I believe experience with the site and personnel will be the key to facilitating whatever needs to be accomplished in the future.

–Roz Pennacchi

SLAC Honored for Community Service

SLAC WILL RECEIVE THE Golden Acorn award for community service for the year 2000 from the Menlo Park Chamber of Commerce. SLAC was recognized for its longstanding commitment to the Chamber, a member for more than 30 years, and for service to the community in education, charity and the environment. The award will be presented by the Chamber of Commerce at an annual awards dinner on May 11.

Education has been a prime target for many of our community activities. Over half of the 10,000 visitors who tour SLAC each year are school-aged children. SLAC donates surplus equipment to public schools for reuse and recycling. Scientists, engineers and others routinely donate time to schools as guest speakers. The education process at SLAC includes job training skills for the disadvantaged, including summer work-study programs and apprenticeships. Much of the credit for these early programs goes to Doug Dupen, past Human Resources manager.

We recognize the need to be involved in the community and be a part of the neighborhood. "SLAC does important work in basic research that will make a difference in the lives of our children and grandchildren," said SLAC Director Jonathan Dorfan. "But we also want our community efforts to make a difference in the present and we are delighted that our activities are appreciated."

Twenty and Thirty Year Awards Dinner

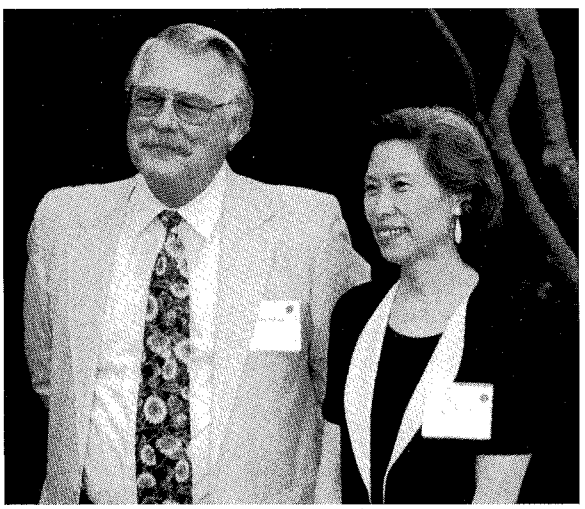
(l to r) Judy and Jym Clendenin with Carol and Dick Bechtel.

(l to r) Richard Jones and Livert Griffin.

(l to r) Fred and Kathy Catania.

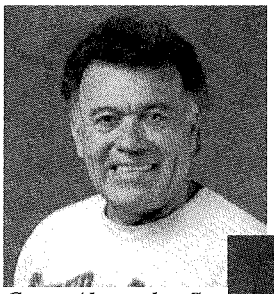
(l to r) Carolyn and Frank Roos.

Keith Hodgson, SSRL Associate Director, was keynote speaker.

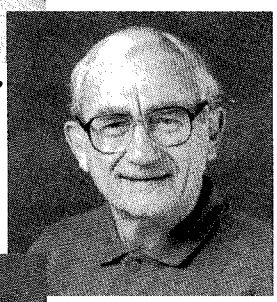


(l to r) John Ashton and Carol Tam.

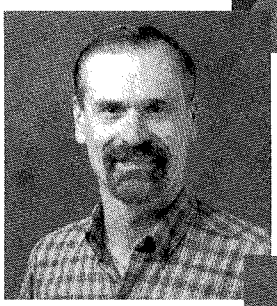
30 Year Award Recipients



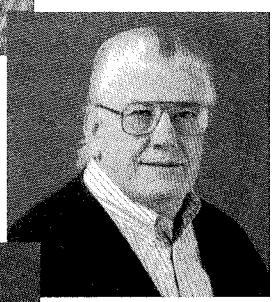
Gene Alvarado, Sr., SEM



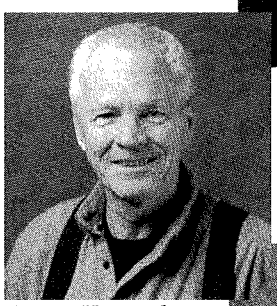
Richard Blankenbecler, Theoretical Physics



David E. Bostic, MFD

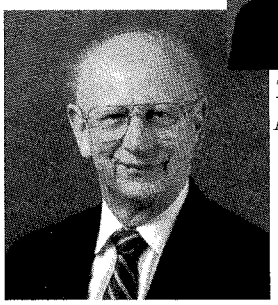


Theodore Fieguth, EFD

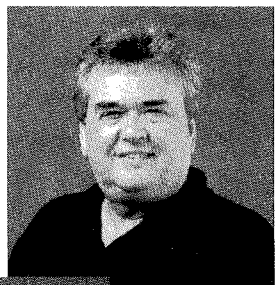


Tom Hostetler, SSRL

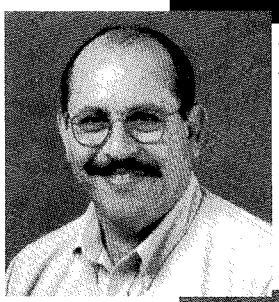
Tony R. King, Metrology



Raymond S. Larsen, TD

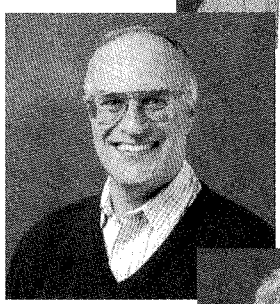


Lanny Otts, Accelerator Operations

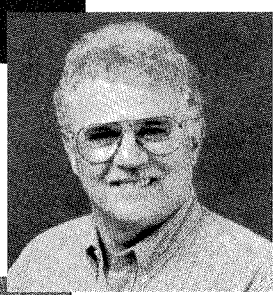


Bernie Romero, SEM

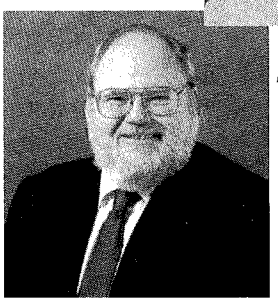
Frank Roos, MFD



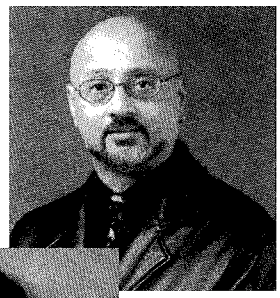
Edwin Russell, SCS



Tom Sherry, SEM

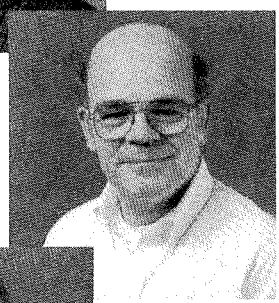


Gary Snowberger, PCD

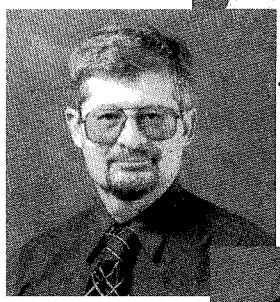


Anthony Tilghman, Controls

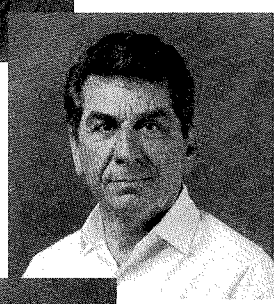
Crystal Tilghman, TIS



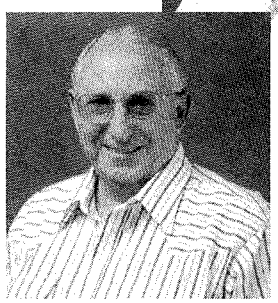
John Truebenbach, Controls



Kenneth K. Underwood, Controls



Zohrab M. Vassilian, BaBar/EFD



Harry Walsh, MFD

Not pictured: George F. Burgueno, Controls Dept. The write-ups of the recipients can be found on the web at `http://www.slac.stanford.edu/grp/per/personnel.html`.

In Good Hands With Lovetta Dunn

"RADIATION" IS A WORD that scares many of us, yet it is something we live with daily. We get it from sunshine, medical x-rays, and when we take airplane trips. A round-trip between New York and San Francisco contributes about 5 millirem to the natural annual average background of 360 millirem in the United States.

SLAC actively monitors radiation. In the Operational Health Physics (OHP) department, we have a team of 24 people working to keep us safe, by providing radiation measuring dosimeters. Lovetta Dunn and Keith Washington assemble and distribute dosimeters to Security and other site contacts, Bob Flood interprets the results, and then Dunn coordinates and maintains the dosimetry database with Washington's assistance.

Dunn performs many other tasks in OHP. In addition to the dosimetry work, she handles purchasing, provides customer service, and generally helps out where she can. In the three years she's been at SLAC, no one has ever seen her lose her cheerful smile and her positive attitude.

"I never run out of work here," Dunn gestures at her desk with a grin. Her work brings her in regular contact with people all over the site, from different departments and different backgrounds. Dunn enjoys working with the people and the variety in her job, and she is eager for the opportunity to learn more. When the OHP website goes up, she will be its official web mistress. Currently, the related dosimetry page is on the ES&H website at: `http://www.slac.stanford.edu/esh/dosimetry/dosimetry.html`

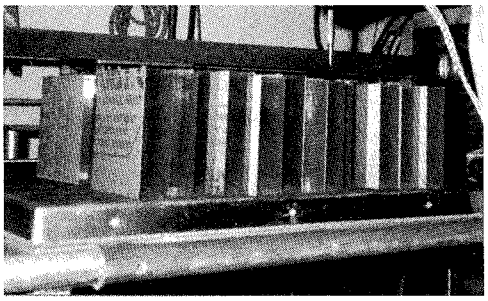
If you have any questions about dosimetry issues, contact Dunn by email at ldunn@slac.stanford.edu or x2388.

–Larissa Williams

This article is the fifth in a series to feature staff members of the ES&H Division. The ES&H Resource List is available on the ES&H Web site at: `http://www.slac.stanford.edu/esh/esh.html`

Beam Trees

SOME VERY BEAUTIFUL DESIGNS are made in clear plastic by bombarding the plastic with a defocused low-energy electron beam traveling almost the velocity of light. The electrons penetrate the plastic about a quarter of an inch, and then stick there without visual effect. As more and more electrons are embedded in the plastic, their mutual repulsion causes great forces to build in the plastic to expel them.



If the filling process is stopped before the electrons break out, a small prick with a metal punch at one point on the surface of the plastic will cause all of the electrons to come out at that point with an arc and a bang. Permanent damage to the plastic caused by the current flow appears as a tree-like structure, though more accurately it should be viewed as a map of the confluence of many small streams flowing into larger ones and eventually to a single river of charge exiting at the discharge point.

During the bombardment process, 16 inches of steel are used to shield the operators from the electron beam's radiation. After about a minute the beam is turned off, and the plastic block is ready to be pricked. At first the plastic retains a brown color due to the intense radiation caused by the electrons striking it. But the plastic does not retain any radiation, and is completely harmless. In time, the brown color fades and disappears. (Placing the block in direct sunlight will speed the process.)

Beam trees are highly prized at SLAC, and are often mounted on decorative wooden bases and given as gifts and awards.

This information (from `http://www.slac.stanford.edu/history/faq/beamtree.html`) information was gathered by: Ron Koontz, Helen Quinn, Hobey DeStaebler, and the late Bill Ash.

Earlier this year, beam trees were made by a team of SLAC employees at a local company. Some of the beam trees produced were used as 30-year awards on April 3, a unique and valued award indeed.

Gary Bower charges the plastic.

Human Resources Welcomes New Staff

HUMAN RESOURCES IS DELIGHTED to welcome its two newest staff members—Brenda Warren (l) and Lynn Thanash (r).

Brenda Warren, HR's new Employee Relations Representative, comes to SLAC with over 25 years experience working in a variety of areas. She's been a research and development chemist, an environmental specialist, a technical manager, a marketing analyst and has extensive recent experience as a consultant providing training and coaching to managers and staff in the areas of team building, communication skills, professional development and diversity. Warren received her BS degree in Chemistry from Morgan State University and her MBA in marketing and management from the Wharton School. Her interests include food (cooking, history, health considerations, ethnic variations), complementary medicine, movies and reading. She lives in Union City with her husband and step-son. Warren can be found in the HR corner of Building 41, Room 238C, and can be reached at x2355.

Lynn Thanash, HR's new Training Coordinator, worked in HR as a temporary before accepting the position on a regular basis. Thanash spent nearly 19 years at Beckman Instruments, where she was (at various times) a buyer, a capacity planner, a trainer, a planning analyst, and a liaison for new product release. She left Beckman intending to start a new life in Nevada, but decided instead to return to the Bay Area with her granddaughter, now age 3. She is an accomplished tap dancer and previous drummer (she played with bands on San Francisco's Broadway). Her interests include travel, long-distance walking, and spending time with the young and the old. She volunteers at the Mountain View Senior Citizen Center and teaches children ages birth—3 years old in the Gymboree Interactive Play Program. Thanash is located in the HR corner of Building 41, and can be reached at x2265.

Al Baker Appointed to MAAT Advisory Board

RECENTLY, AL BAKER OF the Accelerator Department was appointed to the Advisory Board for the Museum of African American Technology (MAAT) Science Village. Upon his appointment, Baker received a note from Jonathan Dorfan: "Its terrific to see that it's not just us at SLAC that value you so much! Congratulations from us all at SLAC."

Baker is no stranger to public service. In addition to serving on the MAAT advisory board, he is currently on SLAC's Communication Task Force as well as on the Black Association of SLAC Employees (BASE) Board. He also is President of the Homeowner's Association where he lives.

That brings the number of active involvements to four at the present time. Baker was once involved in 26 organizations at the same time which included stints in Milpitas (beautification of sound walls, Jaycees Vice President, Planning Commission Chairman for 3 1/2 years), East Palo Alto (Planning Commission Chairman for 2 years), Santa Clara County (Transit Commission and twice on the Santa Clara County Grand Jury). In Milpitas, Baker was on the committee that tackled the problem of noise from Hwy 680. They were instrumental in designing the 16' walls used today in many locations. When Baker moved to Illinois for several years, the mayor of Des Plaines asked him to serve on Community Development which included a successful $36 million airport acquisition project next to O'Hare Airport in the town of Prospect Heights. After receiving his EE degree from UC Berkeley, Baker worked for the Navy, for GTE and for Siemens before coming to SLAC in 1985.

The MAAT Science Village is the brainchild of the Northern California Council of Black Professional Engineers (NCCBPE). They recently held a Science Carnival at Lake Merritt in Oakland which attracted 400 attendees and participants and was an overwhelming success. A goal of the MAAT Science Village will be to encourage interest in science, including career paths in the sciences. The Advisory Board was chosen for its diversity, drawing members from business, fundraising, science education and museum experience, with a congresswoman as the honorary chairperson. The Museum will open in Oakland in July 2000.

News from the Web Information Manager
Ruth McDunn, mcdunn@slac

Phonebook Contact Links

File Edit View Go Favorites Help

Ruth A. McDunn

mcdunn@SLAC.Stanford.EDU

SLAC
Mail Stop: 68
Group: PUB

Binkey: 101133
Status: ACTIVE

Phone: 2014

My home page

The best way to provide a link to a person at SLAC is to make a link to their phonebook entry, such as my entry shown at left. To make a hyperlink to this page, use the following code:

McDunn

where mcdunn is my email userID and McDunn is the link as it appears on the page, such as McDunn. This script was recently updated so it now points to the new phonebook database. If your web pages reside on the Unix server you can shorten this code to:

McDunn

If you want a "My home page" link on your phonebook listing, have your ATOM add the URL to the comment field on the Directory Phonebook Listing change form(www3.slac.stanford.edu/ars/cgi-bin/arweb?Form=useschema&s=spock&S=PHONE:DirChange&Act=Submit).

Don't Stall About ES&H: Tips from Transportation

HELP THE EQUIPMENT MAINTENANCE/Transportation Group in Site Engineering and Maintenance (SEM) Department serve SLAC even more efficiently by reporting difficulties with vehicles as soon as you observe them. This group, headed by Bill Myers with Sally Campo as administrative manager, currently performs regular maintenance and safety checks on all vehicles according to a pre-set schedule (based on mileage or time interval). Thanks to the Operating Safety Committee's efforts two years ago, bicycles and scooters were added to this maintenance program.

SEM Transportation does not perform checks on vehicles every time they are returned, as this would not be an efficient use of staff, time, or the budget. As a result, if someone turns in a vehicle without reporting its problems, you will inherit those problems (and possible safety hazards) when you drive off. Nevertheless, Campo cautions individuals not to try to fix the vehicle problems themselves, as they may cause more difficulties.

Here's a few additional environmental, safety and health tips from Campo: First, make sure you turn your lights on when driving the site in those early morning hours. Drivers who travel SLAC roads in the pre-dawn hours with headlights off are creating hazards for themselves and other vehicles or pedestrians. Secondly, don't burden the environment by letting your vehicle warm up for a long period of time; and above all, don't leave it unattended while it's running. We want you and your wheels around for a long time!

–Janice Dabney
Chair, Operating Safety Committee

SLAC Milestones

APPOINTMENT

Baker, Alonzo, AD, appointed to Museum of African American Technology (MAAT) Science Advisory Board (see Article Page 7), February 2000

AWARDS

Raimondi, Pantaleo, AD, EPS-IGA Elected Board's 2000 Physics Prize (to be awarded at EPAC 2000 in Vienna)

Shen, Zhi-Xun, SSRL, H. Kamerlingh Onnes Prize for "elucidating the electron structure of oxydic, high-temperature superconductors and other strongly interacting electron materials by angular resolved photoelectron spectroscopy," awarded in February 2000 in Houston

SLAC, Golden Acorn Award for community service from Menlo Park Chamber of Commerce, to be presented 5/11/00 (see article on page 3).

MARRIED

Saleski, Michael, AD, to **Alamsjah**, Linawaty, in Montara, CA, 3/10/00

RETIRED

Leonard, Robert, Group E, 3/31/00

DECEASED

Aske, Gary, (retired) PCD, 4/21/00
Banglos, Patrick, PCD, 4/6/00
Constant, Ted, (retired) CD, 4/11/00
Soule, David, (retired) AD, 4/22/00

Do you have a milestone you would like published in TIP? Email tip@slac.stanford.edu to have it included.