

# The Interaction Point

Events and Happenings  
in the SLAC Community  
July 1993, Vol. 4, No. 7



## Summer Particles and Interactions Workshop

by Sarah Morisseau

ANYONE UP FOR A GAME of Wheel of Particles? Particle Pinball? Particle Rummy? How about Build Your Own Accelerator?

What is this, Party Games for Physicists? No, it's the SLAC Particles and Interactions Workshop for high school and college teachers. These games are just a few of the projects developed by the teachers as creative ways to teach physics. But the workshop isn't all fun and games. During the two week session, the participants attend several lectures on topics ranging from particle theory and quantum

mechanics to cosmology and the proposed *B* factory, as well as tours of the accelerator, the detector, and SSRL. Each year, about five of the teachers stay an additional six weeks to work in a SLAC experimental area.

Helen Quinn, who directs the yearly workshop, says that the program's aim is to "give the teachers an overview of what the research environment is like." The lectures are a "capsule course of SLAC science" designed to give them a "layman's understanding" of the research done here. "As science teachers, they have very little exposure to what science experi-



P. A. Moore

Marc Ross, SLAC physicist, points out details of the Final Focus Test Beam.



P. A. Moore

Physics teacher Charles Martell demonstrates a water balloon collider.

ments are really like," she says. For the 30 Bay Area participants, the workshop is also an opportunity to meet fellow physics teachers and exchange ideas, as well as a way of renewing excitement for teaching science.

"It's probably the best experience I've had as a teacher," said Sean Fottrell, who teaches at Castilleja School in Palo Alto. "The quality of speakers and the organization of the program were excellent." Both Fottrell and Ann Marie Trione, a teacher from Fremont High School in Sunnyvale, said that one of the strong points of the program is that there are several SLAC physicists in the room for each lecture, each sharing his or her opinion and ideas on a subject. They were also impressed with the level of the lectures and the hour

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set aside each afternoon to wrap up the day's activities and ask any questions. "It was more than I expected in both content and responsiveness," Trione said.

Although it is possible for teachers to arrange for continuing education credit through Stanford University, not all of them do. "I just wanted something intellectu-

ally stimulating to do during the summer, something I could bring back to the class and motivate the students," Trione said. Trione and Fottrell will both be staying the extra six weeks to work at SSRL.

"In other conferences, I've felt like there was a hole in the middle. Here, it feels like they have hardly enough time to tell us everything they want to say," Fottrell said.



To simulate the Coriolis effect (deflection relative to the earth's surface of any object moving above the earth) Annette Erzberger and Annette Rappleyea sat on opposite ends of a rotating device and tried to throw a ball to each other as they spun around. Shown here is Annette Rappleyea throwing the ball. Looking on, left to right, are Jay Goldberg, Marvin Weinstein, Bill Drennan, Tom Frey, Ken Thompson, Helen Quinn, Sean Fottrell, Tom Woosnam, and Duyglu Demirlioglu.



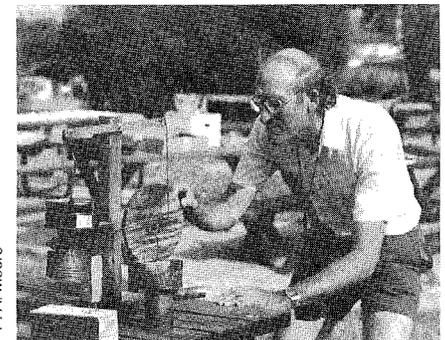
It's not as easy as you might think to hit a target that is rotating opposite you. After several tries Andrea Erzberger caught the ball. Watching are, left to right, Marvin Weinstein, Bill Drennan, Tom Frey, Ken Thompson, Helen Quinn, Tom Woosnam, Duyglu Demirlioglu, Linda Hjelle, Andy Erzberger, and Rick Michaels.



Left to right, Richard Shapiro, Larry Heibert, Kevin Buckley, and Brian Sparling have fun exerting force to move the sled behind them to measure inertia and acceleration.



John Postovit and Charles Martell ready a softdrink bottle rocket launcher.



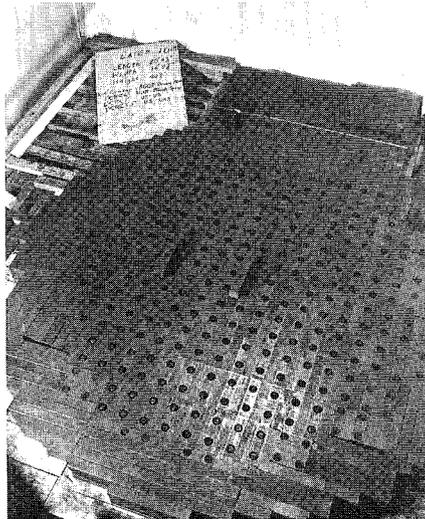
Ken Thompson examines a basic classroom motor.



Left to right: Brian Sparling, Kevin Buckley, Norbert Bibeaut, and Ellen Klinger examine various props that can be used to illustrate physics lessons.

# "The Italian Navigator Has Landed In The New World"

"THE ITALIAN NAVIGATOR Has Landed in the New World," a National Archives–Great Lakes traveling exhibit, has arrived at the SLAC Auditorium Lobby. No, the exhibit is not about Christopher Columbus! It's about the start of the nuclear age.



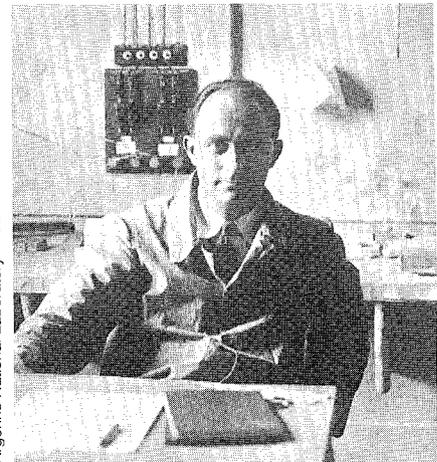
Argonne National Laboratory Photo

*Chicago Pile No. 1 (CP-1). This pile was the first critical assemblage of graphite and uranium ("critical" meaning of sufficient mass to sustain a nuclear reaction). Scientists later came to prefer "nuclear reactor" as a more elegant alternative to pile, a synonym for heap.*

The exhibit title is the coded message that informed US government officials of the successful experiment that launched the nuclear age on December 2, 1942. Enrico Fermi was the brilliant "Italian navigator" and the top-secret experiment that landed him in the new world was the first controlled, self-sustaining nuclear reaction. Fermi's team of scientists successfully operated Chicago Pile No. 1 (CP-1), the world's first nuclear reactor, at the University of Chicago's Metallurgical Laboratory. The exhibit commemorates the 50th anniversary of the event.

Featured documents and artifacts (facsimiles) from the National Archives–Great Lakes Region's holdings include Enrico and Laura Fermi's naturalization papers, a plan drawing and blocks of graphite used to build the first reactor, scientific notebooks, and the Chianti bottle the scientists signed after drinking a toast to their success.

During the fall of 1992, the exhibit was shown at a University of Washington symposium on the beginning of the nuclear age, and various sites in Chicago, including the Social Science History Associa-



Argonne National Laboratory Photo

*Enrico Fermi, winner of the 1938 Nobel Prize in Physics, whose team of scientists successfully operated the first nuclear reactor at the University of Chicago on December 2, 1942.*

tion meeting, the American Nuclear Society Conference, and a University of Chicago symposium about the CP-1 experiment. The exhibit is currently on display at SLAC through the summer of 1993, and will travel on to the Argonne National Laboratory later this year. If you have any questions regarding the exhibit, please contact Robin Chandler, SLAC Archives and History Office, ext. 3091.

—Robin Chandler

## B Factory News Brief

ALTHOUGH THE KOWALSKI Panel has completed its reviews of the *B* factory proposals from Cornell University and SLAC, the Administration is not likely to make a final site decision until August. It was originally supposed to have been made by the middle of July. Funding for the project, however, depends upon the US Senate's approval of the Energy and Water Development Appropriations Bill. Discussion on this bill, which funds all of high-energy physics including SLAC and the proposed *B* factory, should begin in September.

—Sarah Morrisseau

## Has Anyone Seen Melissa Franklin ?

THE PUBLIC BROADCASTING SYSTEM (PBS) is producing a six-part television series entitled, "Women in Science." The series will feature the accomplishments of a woman scientist in each of the fields of high-energy physics, geophysics, molecular biology, computation neuro-science, biochemistry, and archaeology. The one-hour documentary on high-energy physics will be devoted to Melissa Franklin who, inspired by Martin Perl's discovery of the tau particle, came to SLAC in 1977 to

do graduate work in high-energy physics. During the course of her SLAC studies, Franklin worked on the SP-029, PEP-5, and E-97 collaborations. To produce this documentary the PBS filmmakers will need photographs, motion-picture film, and videotape showing Franklin working at SLAC. If you have any images you would be willing to loan for use in the film, please contact Robin Chandler, SLAC Archives and History Office, ext. 3091. Your help will be appreciated!

—Robin Chandler

# ROOTS: FOURTH ANNUAL JUNETEENTH

OFFICIALLY, SLAVERY ENDED with President Lincoln's Emancipation Proclamation on January 1, 1863. But freedom was a foreign word to many slaves until June of 1865, when federal troops marched through Texas, forcing the owners to release their slaves.

One hundred twenty-eight years later, some 300 SLAC employees and friends gathered beneath the warm afternoon sun to commemorate this freedom. The fourth annual Juneteenth celebration, sponsored by the Black Association of SLAC Employees, took place on June 18. The theme of this year's event was "Roots," in memory of the author Alex Haley.

"We have a lot to be grateful for to Alex for reminding us how important it is to remember our roots," said the keynote speaker Loretta Green.

Green, a columnist at the San Jose *Mercury News*, stressed the fact that roots are not just a part of history, but a part of everyone's daily lives. "Roots are strong, they persevere and pop up everywhere," she said, noting that a black man invented the stop light, and that blacks were instrumental in helping to develop several other inventions, including the telephone, the electric light, and the train.

"I urge you to feel the roots, feel the roots," she said. "You want to make sure that those roots are digging deeper and reaching far and that you are going to be a part of nourishing those roots."

The program also included a prayer led by Lorenzo Lowery and several musical performances. In the auditorium breezeway were numerous collections and displays highlighting blacks in America, including Al Ashley's collection of stamps and coins featuring African Americans; an assortment of black dolls; several art collections; and a



*Petti Wilks brought only a few of the dolls she has been collecting most of her life.*



*Some of the members of the Children's Choir of Emmanuel Baptist Church, San Jose.*



*Bryant Mills, left, and Isaac Cosse of the Leonard Webb Quartet.*

series of photographs from the early 1900s.

The photos, gathered by Carlos and Bess Lowe from all parts of the country, are primarily unidentified. Although the Lowes can tell several things from the background of the photo—the cars and houses, for example, often point to the time and place the photo was taken—they rarely know the names of the persons in a photo. The couple takes the collection to colleges, high schools, and museums across the country to raise awareness of the various aspects of black life at the turn of the century.

—Sarah Morisseau



*San Jose Mercury News columnist Loretta Green was the keynote speaker this year.*

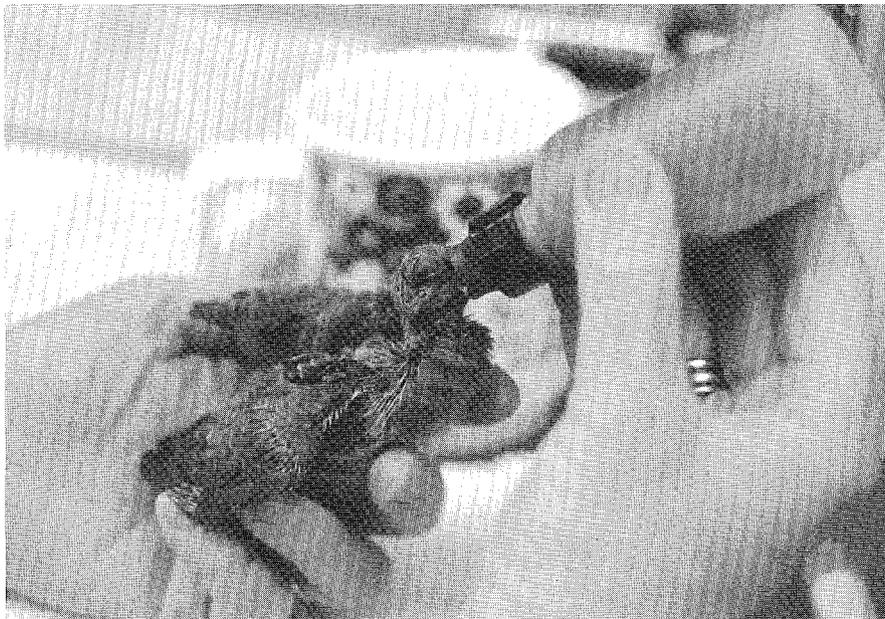
# BIRDS OF A FEATHER FLOCK TOGETHER

VERY FEW PEOPLE would be willing to get up every two hours during the night to feed a baby once their own children are in college. SLAC librarian Arsella Raman is no exception. That is why when she decided to volunteer for Wildlife Rescue, a Palo Alto-based organization whose goal is to “raise, rehabilitate, and release” infant and injured animals. Birds, unlike baby mammals, sleep at night and only need to be fed during the day

As a senior member of both the dove and pigeon teams, she looks after the birds until they have been feeding themselves for a week, at which point they are transferred to an aviary and then set free. When the birds are especially young, they must be fed every two hours during the day—and that means bringing them to work.

“Baby doves are perfect library birds,” she says. “They’re quiet, and they don’t like to be fed too often.” Unlike the noisy sparrows, doves and pigeons (to whom doves are closely related) are content to spend the day in a cardboard box on her desk. Older birds, who don’t need such constant attention, remain at home in the large birdcage her husband has built.

But taking care of these birds is not so easy as putting out a dish of birdseed. Each species has its own particular diet—baby pigeons, for example, eat a special combination of ground-up cat food, vitamins, and chicken-flavored baby food. Moreover, many of the animals at Wildlife Rescue are sick or injured. One of Arsella’s most rewarding experiences as a volunteer was caring for a poisoned pigeon. The poison made the bird tremble and its eyes blink rapidly. Arsella held the pigeon until it quieted down, pouring water in its mouth every ten minutes to flush out the poison. “It



Georgia Row

*Arsella has devised an ingenious way to feed infant birds. She cuts the top off of the nipple of a standard nursing bottle used for small animals. This allows the baby birds to put their whole beaks into the nipple, which imitates their natural eating process of sticking their whole beak into the parent's beak to receive food.*

is so satisfying to see the tremors gradually subside,” she says.

Volunteers must also be careful to keep their distance—not for safety reasons, but so no one, human or animal, gets too attached. For that reason, Arsella never names the birds. “The hardest part is to not talk to them,” she says. Because the ultimate goal is to return the animals to the wild, it is important that they not become too dependent on the volunteers. “If you succeed, they will be afraid of people and won’t come to people for food.”

Arsella also works “on call” which means that calls to the shelter are forwarded to her home, where she answers questions and arranges to care for injured animals. If someone calls with a baby raccoon, for example, she will call the raccoon team leader to place the animal in a “foster home.” They put the animal with another of its kind whenever possible, especially when a baby is involved. Otherwise, the animal tends to think the

volunteer is its mother!

To become a volunteer, it is necessary to attend six hours of animal care classes, which are offered only from February to June. Volunteers are also required to work a minimum of six hours in the shelter before they are allowed to care for an animal at home. Wildlife Rescue volunteers number about 200, and they care for almost any type of animal—mostly birds, but also opossums, rabbits, deer, and even an occasional reptile. They do not provide for domestic animals, adult raccoons, or skunks. If you find an animal in need of attention, or if you would like to become a volunteer, call the shelter at (415) 494-SAVE.

Arsella has been a volunteer for Wildlife Rescue for nearly twenty years, and to this day her face lights up when talking about it. “It’s exciting to me to be able to handle the little birds and feed them,” she says. A bird in the hand is worth two in the bush.

—Sarah Morrisseau

# EARLY RETIREMENT REVISITED

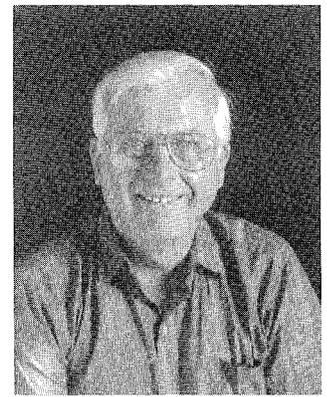
LAST MONTH WE FEATURED about half of the soon-to-be retirees who elected to be photographed. This month we show the remainder.

The serious countdown begins for the 149 employees who took advantage of the Staff Early Retirement Incentive (SERI) program. For those of you who like to keep track of these things, we offer the following special calendar for the month of August.

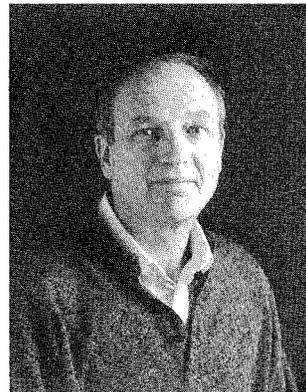
AUGUST 1993				
Mon	Tue	Wed	Thu	Fri
21	20	19	18	17
16	15	14	13	12
11	10	9	8	7
6	5	4	3	2
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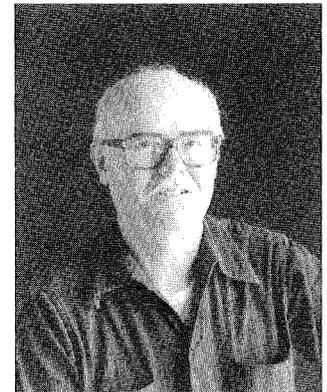
*Louise Addis*



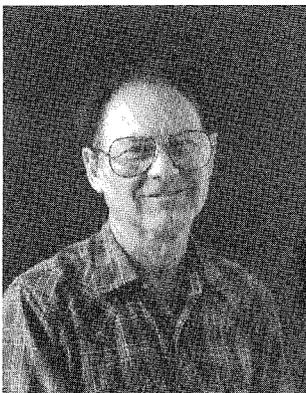
*Robert Bell*



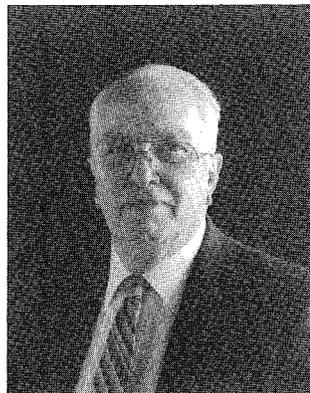
*Boris Bertolucci*



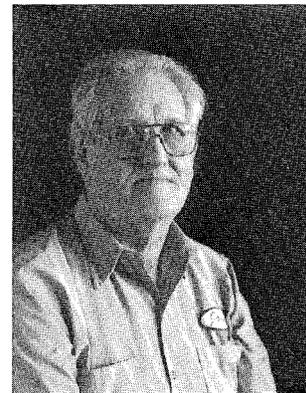
*Richard Bierce*



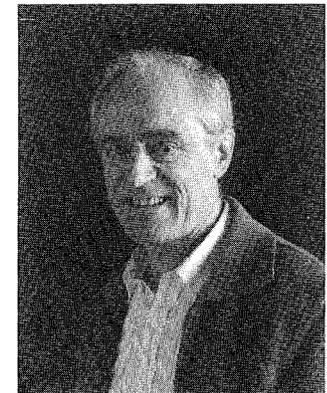
*Richard Cancilla*



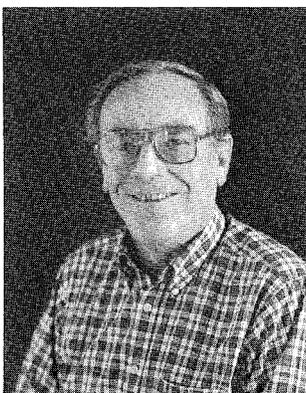
*Merrill Card*



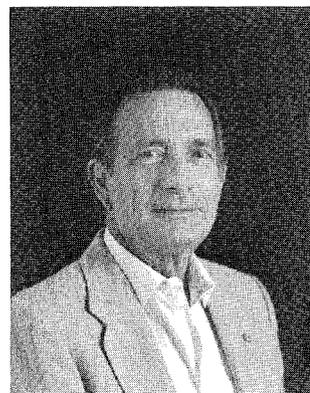
*John Cockroft*



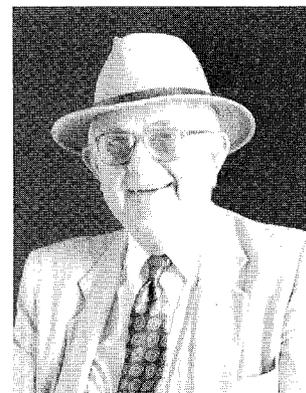
*Hank Cutler*



*Robert Davis*



*Hank Deruyter*

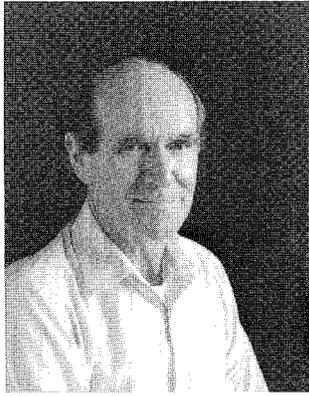


*Doug Dupen*

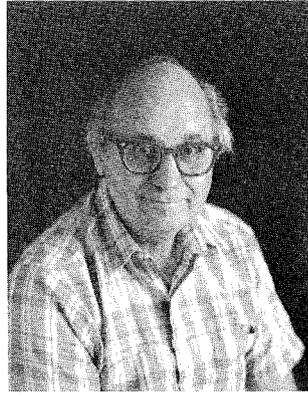




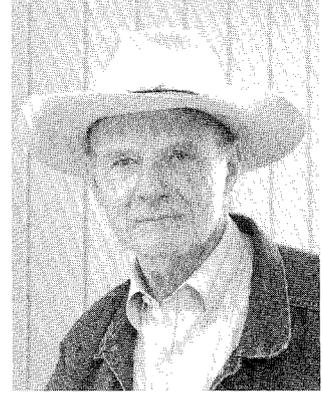
Larry Feathers



James Ferrie



John Grant



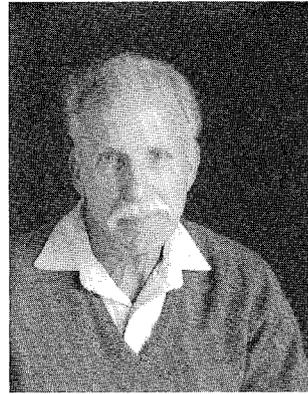
Charley Griffin



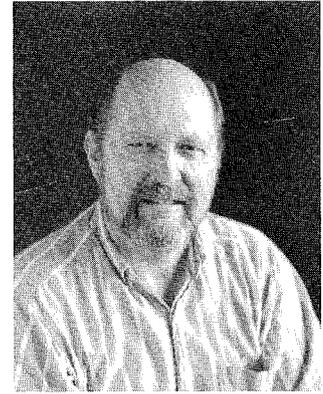
David Gustavson



Virginia Harmon



Earl Hoyt



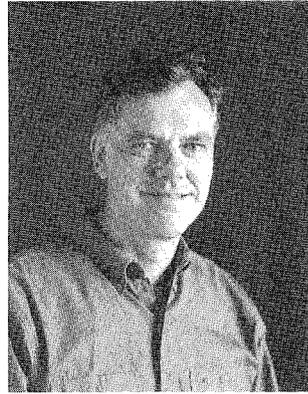
Dave Jensen



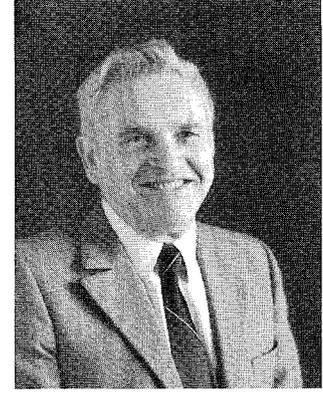
Kevin Johnston



Henry Kang



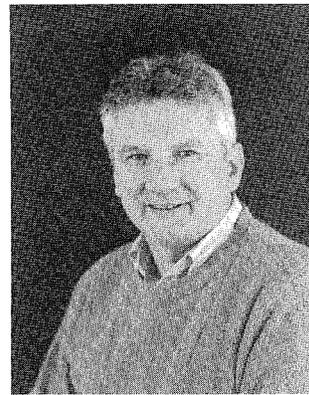
Lewis Keller



Semyon Kheifets



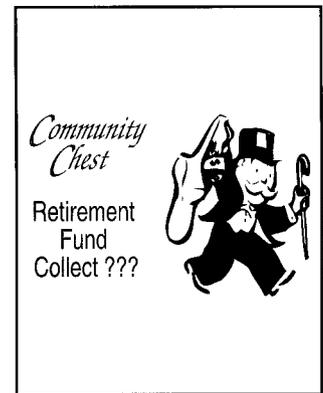
Hilda Korner



Ronald Lynch

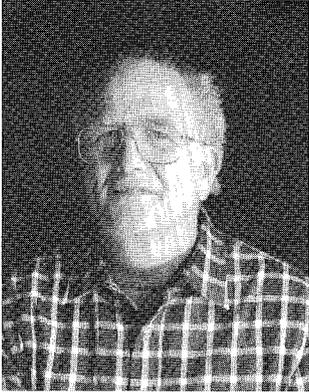


John Mark



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*Roger Miller*



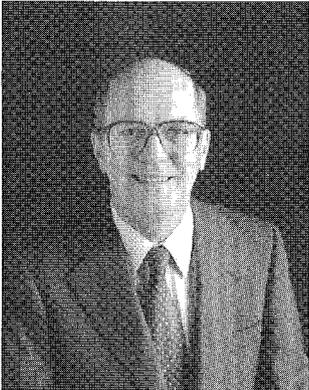
*Daniel Nauenburg*



*M. Annette Nicholson*



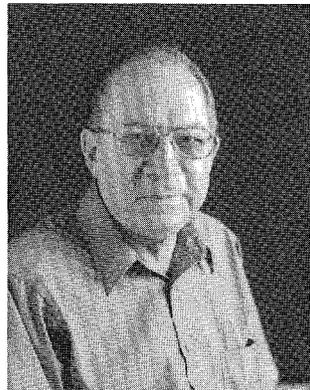
*Emanuel Powe*



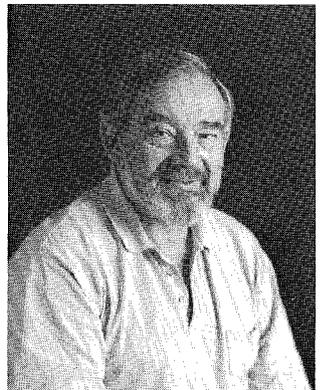
*Gordon Ratliff*



*Bette Reed*



*Russell Roberts*



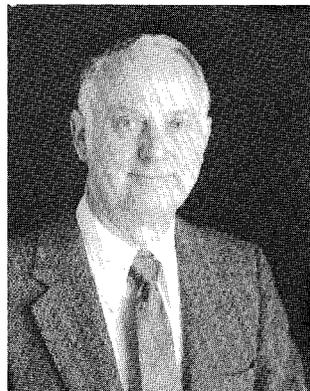
*Cary Salsberg*



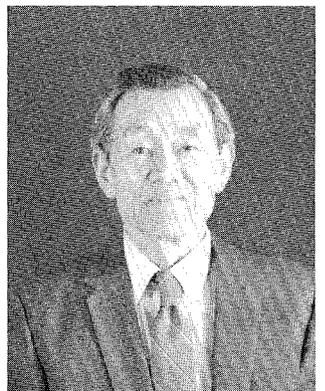
*Ada Schwartz*



*Myrna Valdez*

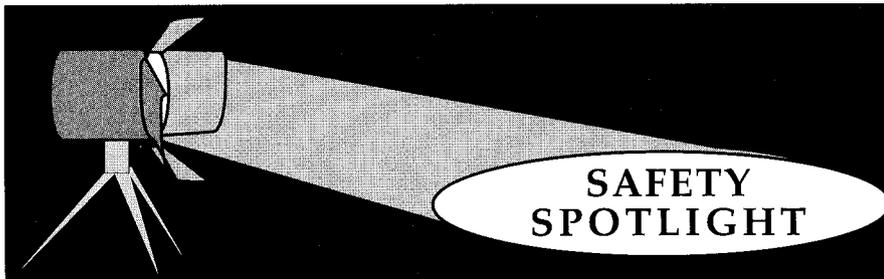


*Alan Wilmunder*



*Edward Wong*





## ES&H—A DIVERSE GROUP

SLAC'S ENVIRONMENT, SAFETY, and Health (ES&H) Division wears a lot of hats! The ES&H Division is made up of the division office and six departments, each specializing in one particular niche of the environment, safety, and health field. The ES&H division office is the home of the ES&H Training Team. The six departments include:

- Environmental Protection and Waste Management
- Occupational Safety and Health
- Operational Health Physics
- Planning and Assessment
- Quality Assurance and Compliance
- Radiation Physics

Although each department has a different area of specialization, all of the departments in the ES&H Division interpret the requirements that apply to SLAC for their particular area of expertise and provide assistance with implementing these requirements.

Many environment, safety, and health issues involve more than one area of expertise, and as a result more than one department within the ES&H Division may need to be involved. For example, projects that involve asbestos raise safety and industrial hygiene con-

cerns that are the responsibility of the Occupational Safety and Health Department, and environmental reporting and disposal issues that are the responsibility of the Environmental Protection and Waste Management Department. Project Managers may need to contact both departments in order to answer all of their asbestos-related questions. One department in the ES&H Division may not be able to answer all of your environment, safety, and health questions about a particular project. To locate the appropriate contacts within the ES&H Division for a project or set of questions, the ES&H Resource List and the ES&H Hotline (ext. 4641) are good places to start.

Although personnel within the ES&H Division will make an effort to inform you when other ES&H departments or groups should be contacted to ensure that all environment, safety, and health issues related to a particular project are addressed, it is important to remember that when dealing with the ES&H Division and its many departments, one call might not do it all!

—Jack LaVelle and Elizabeth Carlassare

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@SLACVM.

### June 21–August 20

Summer Science Program  
Beige Room  
J. Martinez,  
K. McClenahan

### July 26–August 6

SLAC Summer Institute  
Topic: Spin Structure in High-Energy Processes  
Auditorium/Orange Rm.  
D. Leith, L. Dixon, D. Burke,  
L. Vassilian

### August 6, Noon

SLUO Executive Committee  
Inst Reps Meeting (TBA)

### August 9–11

3rd DOE Technology Transfer Conference  
Hosted by LLNL, Berkeley

### August 9–13

SLD Week (TBA)

### August 10–15

International Lepton Photon Symposium (Ithaca)

### August 31

SERI Deadline

### September 8–10

SLC Physics Workshop  
J. Clendenin,  
M. Chatwell

### September 9, 9 AM–3 PM

SUBB Mobile Blood Drive  
Auditorium Lobby

### September 20–24

SLD Week (TBA)

### September 28–30

Wescon Electronics Exhibition  
Moscone, SF

EVENT CALENDAR: July–August 1993

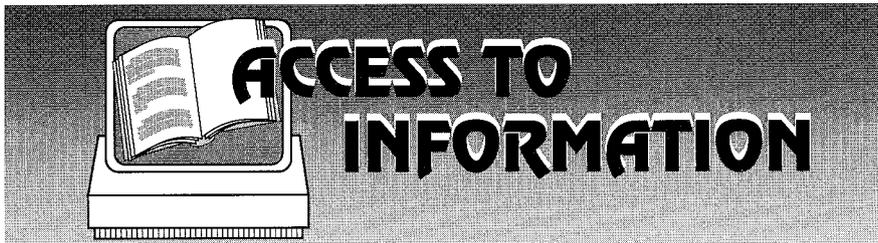
## ANOTHER ES&H ARRIVAL

THE NEW *RADIOLOGICAL SAFETY DIGEST* has arrived. Clad in a distinctive yellow cover, it measures in at 5-1/2" x 8-1/2". The digest summarizes SLAC's policies and procedures for radiation safety which are more fully described in the recently issued *Radiological Control Manual*. The new digest supersedes the *Radiation Safety Digest* which had a red cover. Please remove all

copies of the old digest (with the red cover) from circulation. Additional copies of the new *Radiological Safety Digest* can be obtained from the ES&H Document Coordinator, Judy Nowag, at ext. 2341.

Extra kudos for all those folks who noticed that the titles are slightly different. "Radiological" is DOE's preferred term these days.

—Melinda Saltzberg



## What to Do When You Transfer Equipment

The next time you transfer equipment—a workstation, for instance—from one person to another or to a new location, be sure to notify Property Control. That is the department responsible for keeping track of all DOE property. They annually inventory DOE property at SLAC and report to DOE all property not found during the inventory.

To notify Property Control of the transfer:

- Log on to the VM.
- At the command line type:  
PROPERTY .
- Fill in the blanks on the screen

that you will see: your name, extension, the property control number of the equipment trans-

ferred, item description, new user, new user's extension, new building number, and group code.

- Press PF5 to send the form to Property Control via e-mail. You will receive the message "transaction successful" and receive a copy of the e-mail for your files.

- Press PF3 to quit.

To notify Property Control of multiple transfers, either update the information you entered previously if only a few fields need to be changed, or press PF2 to clear all fields (except your name and extension) and enter the new data.

Press PF1 for online help or call Property Control at ext. 2231 if you have questions.

—Leslie Normandin

## Correction

THE TECHNICAL DIVISION WAS OMITTED in the list of Self-Assessment Coordinators on page 11 of the June *Interaction Point*. Below is a corrected list.

### SELF-ASSESSMENT DIVISION COORDINATORS

Division	Coordinator	Extension
Business Services	Glenn Tenney	4747
Director's Office and Personnel	Karen Campbell	2298
ES&H	Melinda Saltzberg	2376
Research	Steve Williams	2276
SSRL	Ian Evans	3110
Technical	Janice Dabney	3603

## Welcome Guests and New Employees

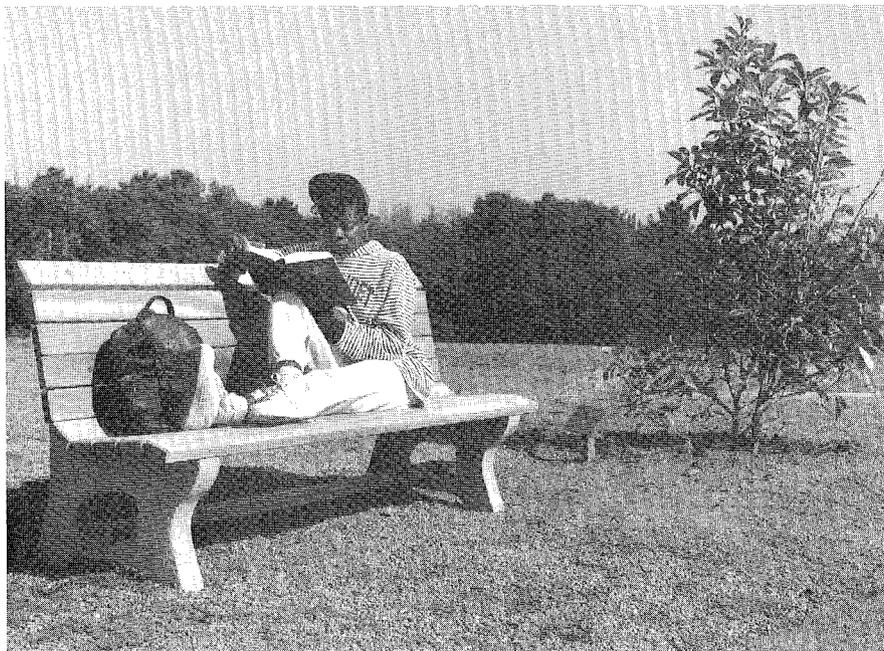
Takashi Akagi, Experimental Group A; Mitsuo Akemoto, Technical; Michael Bieler, Klystron; Rudolfo Bonifacio, SSRL; Robert J. Brown,, Plant Maintenance; Guy DeTeramond, Theoretical Physics; Alberto Fasso, Research; Takanori Fujimara, Theoretical Physics; Philippe Grenier, Experimental Group A; Paul Grosse-Wiesmann, Theory & Special Projects; Gerhard Heimlinger, Group I; David Horn, Theoretical Physics; Margaret Hsieh, Illustrations; Vadim Kaplunovsky, Theory; Tom Kinney, Library; Eugene Kraft, Vacuum; Kimyeong Lee, Theoretical Physics; Satoshi Matsuda, Theoretical Physics; Yasuko Miura, Library; Michiko Miyamoto, Summer Science Institute; Hisayoshi Nakayama, Technical; Rino Natoli, SSRL; Ichiro Oda, Theoretical Physics; Yukiyoshi Ohnishi, Experimental Group A; Katsunobu Oide, Technical; Jogesh Pati, Theoretical Physics; Anthony Perry, Experimental Facility; Maria Pertsova, Group E; Giuliano Preparata, Theoretical Physics; Georgia Printup, Benefits; Rabedeau Thomas, SSRL; Sumathi Rao, Theoretical Physics; Gang Rong, Experimental Group C; Mark Samuel, Theoretical Physics; Vincent Sanchez, Mechanical Fabrication; Tsumoru Shintake, Experimental Group I; Gennadi Smirnov, SSRL; Etienne Snoeck, SSRL; Alexander Tchoumakov, SSRL; John Wachter, SSRL; Changdee Wang, SLAC Linear Detector; Libing Wang, Experimental Group B; Christer Wigren, SSRL; Noboru Yamamoto, Experimental Group I.

# HUGH STECKOL: 1953–1993

IT IS WITH SADNESS that we report the passing of Hugh Steckol on June 24. He had returned to his parent's home in Memphis, and was surrounded by family and friends at the end. Hugh's battle with cancer started early in 1991, and for a while it seemed that he might prevail. Unfortunately, the disease gained the upper hand early this year, and he was unable to continue with his duties here at SLAC. He is survived by his wife and long-time companion, Candis, his father, and two sisters.

Hugh came to SLAC in 1989 from the Oakland office of the Department of Energy. His background was as diverse as one could imagine—from being a rock musician in college to a Presidential Intern in Washington, DC. His position as Assistant Director in the Business Services Division put him in contact with nearly every aspect of SLAC. He was personable, articulate, and a skilled organizer and team builder. During the Tiger Team activities it seemed he was everywhere, serving on numerous committees and pulling together everything from the various groups to successfully respond to the requirements of the review.

Long hours were the norm for Hugh. He worked tirelessly in SLAC's behalf and could usually be found in his office well into the early evening. For those who worked with him, it was one of the few quiet times to spend with him. Yet he still found time to get involved with his neighborhood association and even appeared as spokesman for the group at sever-



*Shonnese Guion of Publications found the bench near A&E a good place to read and relax.*

al meetings of the Oakland City Council.

Above all though, it was his ability to deal with people which set him apart. He had an easy-going manner which immediately made people feel comfortable. He dealt with people in a positive manner—people mattered to him, and he let them know it. He was never too busy to listen to what others had to say. In fact, he was seldom able to resist the opportunity to stop and talk. He had many friends throughout the lab and campus and was respected by all who dealt with him.

Members of his Management Development Program class from campus and the Business Services Division arranged to have a magnolia tree and bench placed near

the A&E building to commemorate his contributions to SLAC and the University. The site was chosen for its commanding view of SLAC and the bay beyond. A group of friends gathered for an informal dedication which was captured on video and sent to Hugh. He was touched by the obvious show of affection from all those present. It was his wish that any contributions be made to the American Cancer Society.

There are certain people who pass through our lives and exert an influence on who we are. Hugh was one of these. He made a lasting impression on everyone who knew him. He will be missed.

*—Rich Ledon*

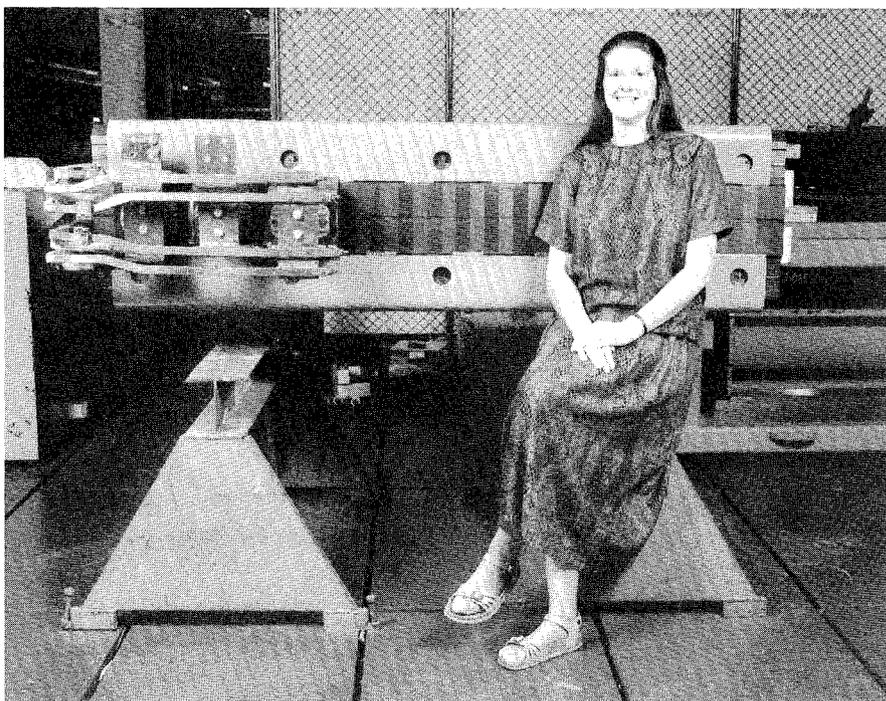
# "SPECTRUM" AWARD GOES TO SPENCER

DR. CHERRILL SPENCER was recently awarded the Institute of Electrical and Electronics Engineers "Spectrum" Award for Pre-college Innovative Math/Science Education. Spencer, who is not herself a member of IEEE, was selected for the honor for her extensive work on the Expanding Your Horizons (EYH) in Math, Science and Engineering Conferences. Spencer has been a magnet engineer at SLAC for the past five years. She did her post-doctoral research in physics here from 1974-1979.

The conferences are coordinated by the Math/Science Network, a non-profit organization whose main goal is "to increase the participation, retention, and advancement of girls and women in mathematics, science, and engineering." Spencer, currently a member of the Board of Directors, has served as Vice President, Treasurer, and twice as President of the Network. She has been involved with local EYH Conferences since 1978.

"I have devoted many hours of my spare time to work on getting more women into science because I am sure we are currently losing many talented women who could contribute... if they had been given encouragement to continue studying math and science when they were in junior high school," Spencer said.

EYH is a one-day conference for girls in the sixth through twelfth grades, typically held at a college campus. The girls attend three workshops during the day, where



*Dr. Spencer with the prototype dipole magnet she has recently made for the Superconducting Super Collider low energy booster in Texas.*

they participate in hands-on activities designed to foster confidence and enjoyment of math and science. The workshops are designed and led by women scientists and engineers, who serve as successful role models to the girls.

"The goals of an EYH Conference are to excite the young women about math and science, to make them aware that these fields are open to them, and to encourage them to choose middle school and high school courses that will give them more options in the future," Spencer explained in her acceptance speech for the award. "The dropping of math and science courses by the vast majority

of female high school students effectively excludes them from majoring in many college subjects."

The Math/Science Network estimates that 250,000 girls have attended conferences since the program began in 1976. This year, there are over 140 EYH conferences in 30 states. Spencer has been on the organizational committee for the EYH Conference at San Jose State University since its beginning in 1979. Anyone who is interested in helping organize or participate in an EYH conference should contact her at ext. 3474.

*—Sarah Morisseau*

## RETIRES: TIME TO FILL OUT YOUR FINAL TIMESHEET!

TIMESHEETS FOR THE PAY PERIOD ending August 31 must be turned in to Tineke Graafland by August 20. Obviously, you do not know exactly how much time you will work during that last week, but it is necessary to make an estimate so that checks will be processed according to schedule. Remember to include

August 31 on the timesheet, since you will need to be here to pick up your check on that day. Checks will be available between 8:00 AM and noon on Tuesday, August 31 in the Auditorium breezeway. At that time, you will also turn in all final paperwork.

*—Lee Lyon*