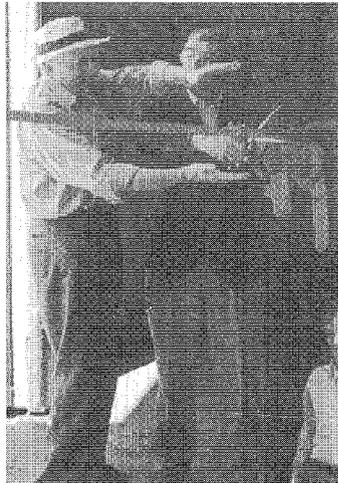


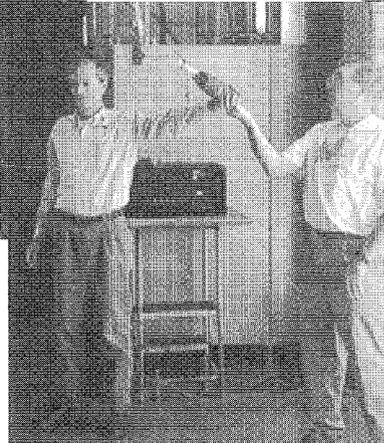
## Ribbon Cutting Ceremony Celebrates NLCTA Construction Completion

COMPLETION OF THE NLCTA construction project was celebrated with a ribbon-cutting ceremony on June 5, 1997. The Next Linear Collider Test Accelerator (NLCTA), a stand-alone linear accelerator designed to accelerate an electron beam to an energy of 450 million electron volts, is part of SLAC's on-going development of 2.6-cm wavelength accelerator and power-source technology for the Next Linear Collider (NLC). NLCTA commissioning operations are now underway. With two out of three klystron stations nearly commissioned, the NLCTA has already achieved accelerating gradients up to 50 million volts per meter (three times greater than in the two-mile long SLAC linac) and beam energies up to 200 million electron volts.

*(continued on Page 2, Column 1)*



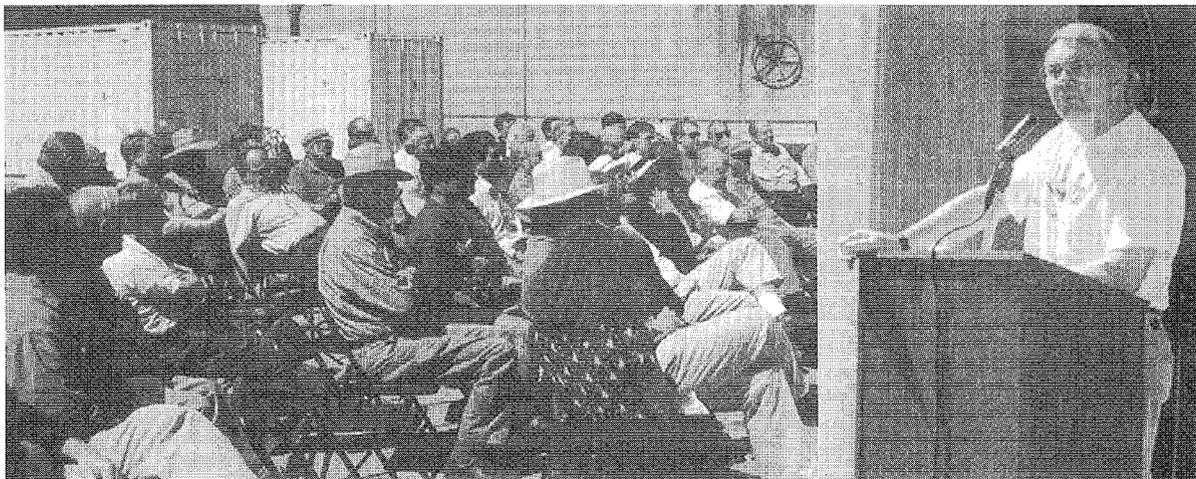
*Greg Loew (l) and Ewan Paterson cut the ribbon.*



*Dave Burke and Ron Ruth (l-r) commemorate the project with a bottle of non-champagne.*



*Mopping-up afterward is Professor Ewan Paterson, as Saul Gold supervises.*



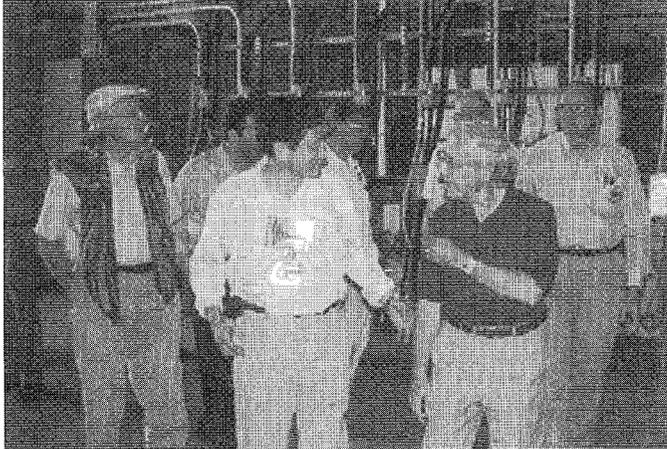
*A large audience of project participants and onlookers listened with rapt attention to speeches by Ron Ruth, Ewan Paterson, Dave Burke and Greg Loew.*

*Ron Ruth recounted highlights of the project.*

*(Photos courtesy of P.A. Moore)*

## NLCTA Ceremony

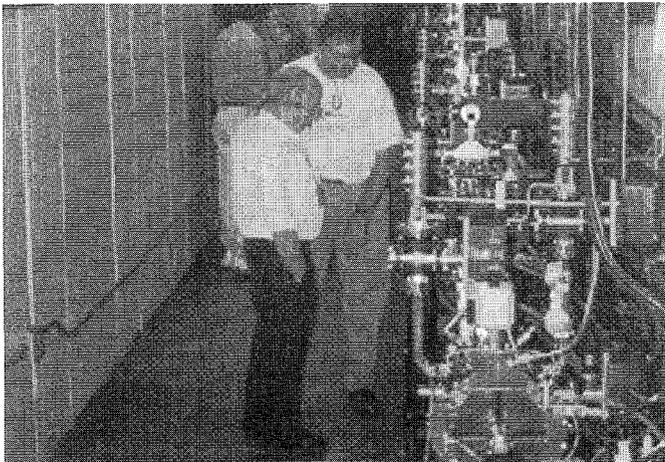
(continued from Page 1)



Juwen Wang and Harry Hoag (front, l to r), who played leading roles in the design and fabrication of the NLCTA accelerator structure, tour the facility after the speeches.

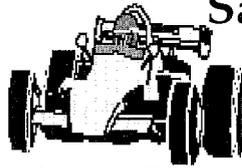
The NLCTA project was conceived in 1991, and has been managed by Professor Ronald Ruth, Head of the Technical Division's Accelerator Research Department A (ARDA). The Project Engineer was Jeff Rifkin (ARDA). The NLCTA's Operations Manager is Ted Lavine (ARDA). The Area Manager is Rich Atkinson (ARDA/MFD). The experimental program coordinator is Chris Adolphsen (Research Division Group I). Significant contributions to the project have been made by many scientists, engineers, and technicians from many departments at SLAC, including Klystron & Microwave, Controls, Power Conversion, Mechanical Fabrication, Experimental Facilities, Radiation Physics, and Technical Planning. SLAC accelerator physicists and engineers collaborated with their counterparts at the KEK laboratory in Japan on the fabrication of the new accelerator structures.

--Ted Lavine



Director emeritus Pief Panofsky (l), inspects the new NLCTA accelerator with Ron Ruth (r).

## Sand Hill Challenge



ON YOUR MARK, GET ready...for the Sand Hill Challenge, a soap box derby on Sunday, September 21.

"Cars" will start at Addison Wesley and speed, coast, or wend their way downhill to SLAC. Entries so far include 8 high school teams and 30 (so-called) adult teams.

As part of the festivities, SLAC will open the Visitor Center and offer tours of the experimental facilities. "This is a great opportunity for the local community to see what we do," said SLAC Director Burton Richter, "and besides, this is a chance for our engineers and technicians to demonstrate their true skill." For details contact P.A. Moore (email: xanadu@slac.stanford.edu).

The event is the creation of Jammis McNiven, owner of Buck's Restaurant in Woodside. Partnering with Silicon Valley venture capitalists, the slogan for the event is "Every Kid a Start-Up" and proceeds will go to help combat drinking and driving among teenagers.

A prize will go to the fastest, but recognition will be given for creativity, too. So the pressure is on. We need outfits. We need hats. We need a name for our car. If we can find quarks, then we can win..place...or show in the Derby. Go, SLAC!

--P.A. Moore



### Click on This!

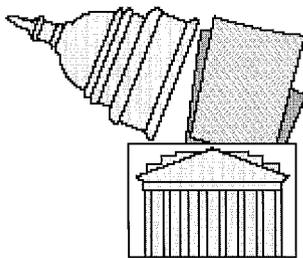
HERE ARE SOME SLAC Web pages developed to assist staff with Laboratory Services. Public Affairs Office services range from formal (i.e., Tour Program) to more informal (i.e., Conference Support). Some pages are limited to internal queries only-designated SLACONLY.

- Public Affairs Office:  
[www.slac.stanford.edu/grp/pao/pao.html](http://www.slac.stanford.edu/grp/pao/pao.html)
- Staff-Conducted Visitor Tours:  
[www.slac.stanford.edu/grp/pao/slaonly.staffhost.visit.html](http://www.slac.stanford.edu/grp/pao/slaonly.staffhost.visit.html)
- On-site Meeting Rooms (with links to meeting room contacts):  
[www.slac.stanford.edu/gen/pubinfo/room.html](http://www.slac.stanford.edu/gen/pubinfo/room.html)
- Outline of Audio-Visual Services:  
[www.slac.stanford.edu/grp/pao/avserv.html](http://www.slac.stanford.edu/grp/pao/avserv.html)
- On-Site Conference Support:  
[www.slac.stanford.edu/grp/pao/slaonly.conference.html](http://www.slac.stanford.edu/grp/pao/slaonly.conference.html)

For questions or comments, contact Nina Stolar, x2282 (email: [nina@slac.stanford.edu](mailto:nina@slac.stanford.edu)).

--Nina Stolar

## Safer Buildings at SLAC



WHAT HAPPENS WHEN A building is over 30 years old? If you own a house, you know that many things wear out and need repair. Building codes change, typically becoming more strict. Retrofitting is often required, especially to meet new earthquake standards.

So it will not surprise you that staff and consultants have been looking at buildings and blueprints to see how well our facility is holding up against time and seismic activity.

According to David Coward, chairman of a group called the Seismic Evaluation Committee, "Our seismic study is important to make sure that people are working in a safe environment to fulfill SLAC's mission."

There are two phases involved with this study. Phase one is an assessment of each building to see if it is structurally sound or if it needs more study. If a building needs further study it goes into phase two for more detailed analysis and recommendations for repairs.

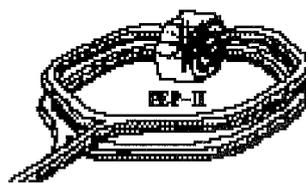
"We have prioritized our study and our first concern is for human safety, so we are looking at buildings which are occupied," said Coward. "Building 280 has already had retrofitting to bring it up to codes for seismic safety."

Another example is Building 34 (Controls). It had a deficiency between columns and second floor connections that could have caused the collapse of the second floor in the event of a major earthquake. A steel shelf was molded to the column and the second floor to provide more stability. If you didn't notice the work being done it's because repairs were scheduled in the evenings to minimize impact on operations.

The Seismic Evaluation Committee has eight members from a variety of divisions and the Committee reports directly to SLAC Director Burton Richter. The duration of the entire seismic study will depend on the findings and the amount of repairs required.

### Work Safe, Work Smart

There have been no new claims filed involving days away from work since the last Workers' Compensation update, according to Sharon Haynes, Worker's Compensation Coordinator. The last claim occurred on 5/12/97. As of 7/18/97, the number of calendar days accrued since that date are 67. Sixty-seven days matches our previously set record number of calendar days between claims.



## PEP-II Tours for SLAC Staff

HERE IS YOUR OPPORTUNITY to see SLAC's newest accelerator, PEP-II, in an advanced state of construction. Lowell Klaisner, PEP-II Chief Engineer, will conduct noon walking tours of the machine on the Wednesdays that do not conflict with the operating schedule. The 45-minute tour will convene at the Sector 30 gate at noon, and finish at Gate 17. Space is limited. Contact Teri Peterson, x4463, (email: terip@slac.stanford.edu) to make a reservation. Radiation badges are required, and temporary badges can be obtained at the Sector 30 gate.



## Staff Training Update

GOOD NEWS FROM THE Stanford Training & Organizational Development Department! They have increased the amounts for the Staff Training Assistance Program (STAP). The quarterly allotment for STAP will be raised from \$140 per quarter to \$200 per quarter for all staff at 50% time or more. This increase will begin with all classes taken after September 1, 1997.

The STAP funds are used to save your department money when you take training classes. You may use the funds by filling out a Staff Training Request Form. To pay an outside vendor (other than Stanford), you should attach a Purchase Requisition or Travel Form. You can also use your Government Purchasing (IMPAC) Credit Card, following the procedures in your IMPAC manual. Staff Training Request Forms are available at SLAC Stores.

If you have questions about this, or anything else related to Training & Development, contact Karen McClenahan, x2265, (e-mail: kmac@slac.stanford.edu).

## Eighth Annual Juneteenth Celebration "Fifty Years After Jackie Robinson"



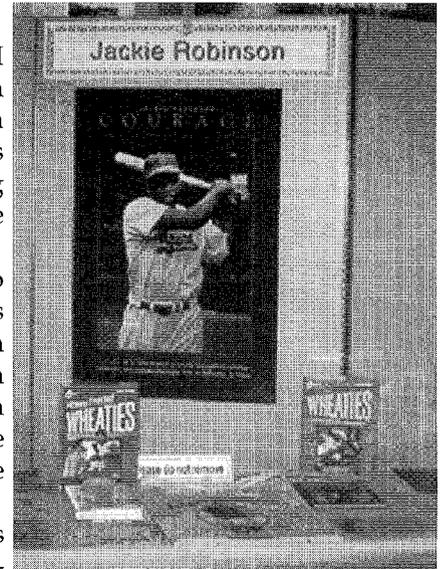
*Guest Speaker Nate Oliver, former player and coach for the LA Dodgers.*

OFFICIALLY, SLAVERY ENDED WITH President Lincoln's Emancipation Proclamation on January 1, 1863, but freedom was a foreign word to many slaves until federal troops marched through Texas in June of 1865, forcing the owners to release their slaves. This became the first Juneteenth Celebration.

Recently, 132 years later, more than two hundred enthusiastic employees and friends gathered at SLAC's eight annual Juneteenth Celebration, sponsored by the Black Association of SLAC Employees (BASE) beneath the warm afternoon sun to celebrate and to commemorate Jackie Robinson. Several baseball greats came to join the party.

When Jackie Robinson broke baseball's color barrier in 1947, he became the first African-American to play for a Major League baseball team, the Los Angeles Dodgers. According to Al Ashley, Robinson's success on the baseball diamond, as well as his intelligent voice in activities outside of baseball, contributed to many of the liberties all Americans enjoy today. These include: President Truman's integration of the Armed Forces in 1948; The Supreme Court's Landmark 1954 decision in *Brown v. Board of Education*; and The Civil Rights Bill of 1964.

SLAC's Juneteenth Celebration included displays of historical material about Jackie Robinson, the old Negro League, the Major Leagues, and some rarely seen pictures from the Negro Leagues Baseball Museum in Kansas City, Missouri. Several former Major League Baseball players attended Juneteenth: Terry Whitfield, formerly a player with the San Francisco Giants and the Los Angeles Dodgers; Dr. Miles McAfee, who played with the Atlanta Black Crackers (a Negro League team) and scouted for the Pittsburgh Pirates organization; Jesse Gonder, formerly of the Pittsburgh Pirates; and Nate Oliver, former



*Pictured (l-r) are Terry Whitfield, Mike McAfee, Al Ashley (SLAC), and Jesse Gonder.*

(Photos courtesy of Al Ashley)

## SLAC Survey on Internal Communication

DOE is changing its policies about evaluation procedures. Labs are being asked to conduct self-assessments on various activities. We want to know how well we are communicating with each other and which communication channels are useful. So we need your feedback as part of our evaluation. Please take a few moments and complete the following survey. Mail your anonymous responses to PA Moore, MS 80. All responses will be tabulated and results reported in a future edition of the Interaction Point.

1. How well informed do you feel about important issues facing the Lab?  
**Very well informed      Moderately well informed      Not well informed**
  
2. How well informed do you feel about issues affecting your job?  
**Very well informed      Moderately well informed      Not well informed**
  
3. How important do you feel staff views are to the Lab's management?  
**Very important      Moderately important      Not important**
  
4. How useful are these information channels in informing you about the Lab?

Please circle the number that best fits your opinion, with 5 as high and 1 as low:	Very Useful	4	3	2	Seldom Useful
A. SLAC Website	5	4	3	2	1
B. The Interaction Point	5	4	3	2	1
C. Email services/newsgroups	5	4	3	2	1
D. Your supervisor	5	4	3	2	1
E. Other employees	5	4	3	2	1
F. Department/group meetings	5	4	3	2	1
G. Flyers posted around site	5	4	3	2	1
H. Presentations, Seminars, Workshops	5	4	3	2	1
I. Director's All-Hands Meeting	5	4	3	2	1
J. Training Courses/Programs	5	4	3	2	1

5. What suggestions do you have to improve the communication channels at SLAC?

(continued on other side)

6. Anything else you want to add?

Some information about you:

7. Please circle your division:

Tech.      Research      BIS      ES&H      SSRL      PEP-II

8. Please circle your classification:

Exempt      Non-Exempt      Contract      User      Other \_\_\_\_\_

9. Please circle your length of service at SLAC:

0 - 5 years      5 - 10 years      10 - 20 years      over 20 years

10. Gender:      M      F

fold here↑

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TO:

**P. A. MOORE, MS 80**

Please return by AUGUST 29, 1997

Thank you!!

# Juneteenth Celebration

(continued)



*Charles Jones received the Distinguished Service to Humanity Award*

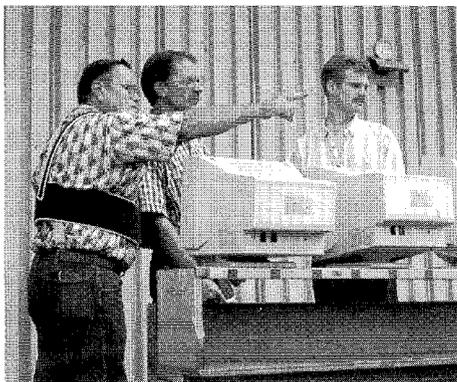
player and coach with the Los Angeles Dodgers. Oliver and McAfree both spoke about what Jackie Robinson meant to them.

The annual Distinguished Service to Humanity Award was given to Charles A. Jones, Director of the Jones Mortuary in East Palo Alto, for his dedication and commitment to people and to his community.

In addition to the delicious food and the terrific music performed by Jamie Davis and his musicians, the highlight of the event was the raffle of Jackie Robinson Commemorative items including baseballs autographed by Hall of Fame players such as Willie Mays, Reggie Jackson, and Joe Morgan, as well as other baseball stars such as Tommy Lasorda, Vida Blue, Maury Wills, and Orlando Cepeda.



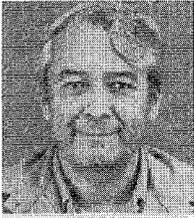
## SLAC's Annual Garage Sale



*Staff examined goods in the SLAC warehouse while Alan Conrad (center, r) looked on from the loading dock. "The response was terrific. We made over \$7,500, which is about twice as much as last year." Proceeds from the sale go back into SLAC's operating budget.*



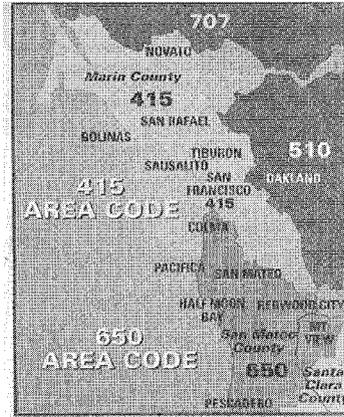
## In Memoriam: Marco Buenrostro



MARCO BUENROSTRO RETIRED FROM SLAC on May 16, 1989 after a 24 year career as an electrician. In 1975, he began working with Alex Tseng and Ishwar Garg in Plant Engineering as a field man. His expertise was high voltage cables and large power systems, and he would troubleshoot problems such as blackouts. Marco was known for his ability to assist and respond quickly. Since emergencies are by nature unscheduled, it was good to have someone as dependable as Marco to call upon. He also worked with Gordon Hardin and Art Williams on SLC and the original PEP ring prior to his retirement. Marco died on July 10, 1997, at the age of 72 after a brief illness. He is survived by his wife, Marjorie, and his five children, three of whom attended Stanford University.

--Mario Machicao

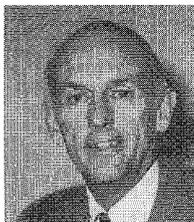
## Area Code Changes



AS OF AUGUST 1, SLAC's area code changed from 415 to 650. This change encompasses San Mateo County and the part of Santa Clara County that previously used 415. There is a period of six months when both the old and new area codes can be used. That should

give you plenty of time to update your phone, fax, pager, cellular and modem numbers to outside associates. Contact your department administrator if you have questions about directories or business cards.

## In Memoriam: Robert Phillips



ROBERT H. PHILLIPS, WHO SERVED as my assistant from 1969 to 1970, died on June 19 at the age of 86. His decision to become a physicist occurred during service with the Air Force in World War II, when he met

William Schockley, the co-inventor of the transistor. After the war, Bob entered UC Berkeley and within seven years he had obtained his Ph.D. He was one of my graduate students despite being eight years older than I. He worked on the staff of Brookhaven and then came to SLAC. During his brief stay here he was an effective and popular mediator among the various communities. He returned to Brookhaven and became Assistant to the Director, Nick Samios, remaining in that position until he retired. Although Bob was at SLAC briefly, he made many friends here. I will miss him and so will many others at SLAC.

--W.K.H. Panofsky

## It Was A Dark And Stormy Night...

THERE ARE AWARDS FOR bad writing. There are even categories and guidelines for bad writing. There are judges and committees who read bad writing. And there are people like Larry Sherman, a Technical Planner from the Technical Division, who win awards for bad writing. Sherman received a "Dishonorable Mention" in the "Vile Puns" category of the 1997 Bulwer-Lytton Fiction Contest sponsored by San Jose State University.



The rules state that a story must start with unusual and convoluted images, much like the writing of the contest's historical namesake. The contest attracts numerous entrants each year, each vying to outdo the other in purple prose and pretentious platitudes. For more information on the contest in general, the website is <http://www.bulwer-lytton.com/>.

Here's Sherman's prize-winner: "It's a mystery wrapped up in a riddle embedded in an enema", thought Dr. Calvin McNurph as he headed back to the proctologist's convention, hoping to get to the bottom of the problem at once and rectify the situation."

The XXV SLAC Summer Institute on Particle Physics *The Physics of Leptons* will be held August 4 - 15. For more information on this, visit the web site <http://www.slac.stanford.edu/gen/meeting/ssi/next> or send email to [ssi@slac.stanford.edu](mailto:ssi@slac.stanford.edu).

## Operating Safety Committee

THE OPERATING SAFETY COMMITTEE at SLAC was formed to discover, analyze and propose solutions to hazardous situations excluding those technical areas addressed by SLAC's citizen committees (e.g., ionizing and non-ionizing radiation, earthquakes, hoisting and rigging, hazardous experiments, pressure safety). The committee presently consists of five members each from the Technical, Business Services, and ES&H Divisions; four members from the Research Division; and one member each from PEP-II and SSRL Divisions, and from the Director's Office.

Members are asked to share safety concerns and recommendations from their division's safety representatives and to ensure that all groups in their division are informed of committee concerns, decisions and recommendations. An annual work plan is developed for each calendar year, although agendas are always open to new topics which need to be addressed. Accident trends and injury rates are reviewed on an annual basis, based on documentation from the ES&H Division. Though the committee does not set policy, it can review situations and make recommendations to the ES&H Coordinating Council when policy issues are involved and/or when the gravity of a problem warrants this level of attention.

To ensure the general safety of the lab population, personnel are encouraged to bring safety concerns to the attention of the Operating Safety Committee through their division's representative(s), listed below.

--Janice Dabney

### OPERATING SAFETY COMMITTEE MEMBERS

<b>Chair:</b>	Janice Dabney	
<b>Safety, Health &amp; Assurance:</b>	Jack Hahn	
<b>Department Head Recorder:</b>	Sharon Haynes	
<b>Business Services Division</b>	<b>ES&amp;H Division</b>	
Jerry Belk	Richard Cellamare	
Rick Challman	Joe Christy	
Karen Kruger	Maria Lungu, M.D.	
David Price	Mick McDonald (PAFD)	
Rick Yeager	Judy Nowag	
<b>Research Division</b>	<b>Technical Division</b>	
Barbara Barrera	Ali Farvid	
John Broeder	Dave Ficklin	
Fred Catania	Rich Jones	
Frank King	Gerry Nelson	
Frank O'Neill	Ponciano Rodriguez	
<b>PEP-II</b>	<b>SSRL</b>	<b>Director's Office</b>
Sandy Pierson	Ian Evans	Nina Adelman Stolar

## If The Glove Fits...

IF YOU WORK ON or near exposed energized electrical equipment, you are required to wear electrical safety gloves. These are not just ordinary gloves, they come with strict rules and regulations regarding use. The gloves are wear-dated and must be electrically tested by a certified laboratory before the first use and every six months thereafter. Only qualified workers may use these gloves, which means you must receive either on-the-job training (OJT) or a combination of OJT and attending a class (Course 274, Electrical Safety: Low and High Voltage or Course 251, Electrical Safety: R&D Equipment).

SLAC Stores presently carries size 9 of the electrical safety gloves (more sizes may be added in the future). A representative from Burlington Labs, an electrical safety products vendor, will be on site in the front parking lot of the ES&H Building (Building 24) from 10:30 am - 11:30 am the last Wednesday of the month in August (27<sup>th</sup>) and September (24<sup>th</sup>). The vendor can fit you for the correct glove size, test the gloves and provide related electrical safety products (bring a SLAC credit card or pre-approved Purchase Order). For more information on personnel protection equipment (PPE) for electrical safety, contact Ishwar Garg, x2039 (email: ishwar@slac.stanford.edu).

--Ishwar Garg



Photos courtesy of Ishwar Garg

(l-r) Perry Anthony (EFD), Bob Senin (Burlington Labs, inside van), and Marc Larrus (SSRL) discuss electrical safety gloves. The sign says, "The Decision You Make Today May Save a Life Tomorrow".

## Meet Mick McDonald



(Photo courtesy Diane Miller)

*Battalion Chief McDonald poses in full regalia with the Fire Dept.'s mascot "Heartbreak".*

MICK MCDONALD, BATTALION CHIEF of the Palo Alto Fire Department, recently assumed responsibility for emergency management at SLAC, which includes preparedness, response and recovery. "Safety is my goal. We need to be ready for natural disasters like floods, fires, and earthquakes as well as risks from hazardous materials," said McDonald.

Working with the Safety, Health and Assurance Department, Mick will evaluate our existing plans and make recommendations for improving readiness. Part of that readiness includes more training for staff, with courses on disaster medicine, light search and rescue, and damage assessment. "These courses also provide helpful information for around your home and in your own neighborhood," added McDonald, "so there's an extra benefit."

"The objective of the Emergency Management Program is to maximize the talents and skills of the SLAC community. That way we can keep damages, injuries and loss of life at a minimum." Contact McDonald at x3179 for more information.

## Welcome Guests and New Employees

The following people joined SLAC through mid-July: **Jean-Noel Albert**, BaBar; **Travis Brooks**, Theory; **Johann Cohen-Tanugi**, Experimental Group B; **Donglai Feng**, SSRL; **Josef Frisch**, SLC; **Shirley Gruber**, SCS; **Michael Hicks**, Experimental Group K; **Marc Hill**, ARDB; **David Horn**, Theory; **Alexander Kagan**, Theory; **D.S. Kulshreshtha**, Theory; **Usha Kulshreshtha**, Theory; **Shigeru Kuroda**, ARDA; **Louis Lyons**, SLD; **Guiliana Manzin**, Experimental Group E; **Stuart Metcalfe**, BaBar; **Adrian Percer**, ARDA; **Maxim Perelstein**, Theory; **Kevin Rennert**, Accelerator Dept.; **James Schmidt**, ARDB; **Jesse Smith**, Experimental Group E; **Michael Van Der Karr**, ES&H; **Renata Zaliznyak**, Experimental Group C.

We also welcome all of the summer hires, including students, YOP, and interns.

## FactinOs

### *Dr. Richard Neal Tribute*

We are rich in people who have made great contributions to the Lab. One such person is Richard Neal, project manager for Linac Construction and Associate Director of the Technical Division when he retired in 1985. A symposium on future accelerators will be held at SLAC on September 5 to honor Dr. Neal on his 80th birthday. Maybe we'll have chocolate cake?

### *Sticky Fingers*

Have you heard? A John Doe got fired for altering his timecard. Our Personnel Office confirms that a few employees have been terminated for theft, dishonesty, and falsifying information. Bill Shakespeare said it best: "To thine own self be true... thou canst not then be false to any man."

### *Whew! Close Call!*

Thank goodness chocolate comes in small chunks because I just heard that not even the strongest worker should attempt to lift objects weighing more than 75 pounds. Anything heavier needs mechanical assistance such as forklifts, pallet-movers, dumb-waiters, cranes or hoists. Break those candy bars into small pieces or risk back injury!

### *If Chocolate Doesn't Help*

Tense? Uptight? Raiding the candy machine? It's time to examine what's going on. Attend a WIS presentation on August 26<sup>th</sup> at noon entitled "Job Stress and Burnout," and find out the causes and symptoms. Speaker Kevin Carr will also suggest remedies.

### *Relax the Back*

Mark your calendar for a brown-bag safety presentation and video about how to spare your back the indignities foisted on it. Sponsored by SEDAC, the event takes place in the Orange Room at 12 noon on September 24<sup>th</sup>. Bring chocolates to share.