



SLAC BEAM LINE

Common sense is the collection of prejudices acquired by age eighteen. --Albert Einstein

Volume 13, Number 8

August 1982



(cartoon by Conrad Ouellette)

SUNDAY, AUGUST 15
ON THE GREEN AT SLAC
2:00 TOURS 3:00 CEREMONIES
4:30 BUFFET SUPPER

SLAC'S CELEBRATION is almost here. You are all cordially invited to join the festivities on the green at SLAC, Sunday, August 15. Tours begin at 2:00; the ceremony starts at 3:00; and the buffet supper follows at 4:30. Talks commemorating SLAC's technical achievements will be held on Saturday, August 14, in Kresge Auditorium on campus, starting at 1:00.

LABORATORY REORGANIZATION

The following is excerpted from a memorandum to all SLAC staff from the lab Director, W.K.H. Panofsky. Details of the reorganization will be printed in the next issues.

Beginning August 16, 1982, the laboratory will be reorganized as follows:

1. Burton Richter will assume a new position of Technical Director for the laboratory as well as the position of Associate Director, Technical Division. Under his leadership in the latter position, the functions now carried out both by the PEP Division and the Technical Division will be combined into the one Technical Division. Greg Loew will serve as Deputy Director of this expanded Technical Division.
2. The Experimental Facilities Department which is now under the Technical Division will be transferred to the Research Division.
3. The SLAC Linear Collider activities, which up to this point have been managed on a task force basis, will be elevated to a formal project, since we are encouraged that authorization of the SLC as a construction project can be anticipated with some certainty. The Project Director of the SLC will be John Rees, who will also continue to serve as an Associate Director of the laboratory. The SLC project will report to the Technical Director.

The fact that the PEP Division will no longer be a separate Division does in no way imply lessened commitment to the successful operation of the storage rings at this laboratory. On the contrary, I am reaffirming that efficient operation of PEP for particle physics research remains the first priority of SLAC for the foreseeable future, and I believe that unification of the PEP and linear accelerator skills into a single organization within the laboratory will be a valuable tool in increasing the efficiency of PEP and SPEAR since the linear accelerator serves as injector to both.

Both Dick Neal and Joe Ballam will relinquish their positions as Associate Director, Technical Division and Associate Director, Research Division, respectively, during the current year, but will continue to serve SLAC as members of its research staff and faculty. The University and the entire community of high energy physicists owe them an enormous amount of thanks.

Due to the nature of the work of the Research Division, the succession in this Associate Directorship will not involve any major amount of reorganization.



STANLEY R. STAMP RETIRES

After 24 years of service, Stan Stamp who served as Project Manager of the SLAC Site Office for the past nine years retired from the Department of Energy in June.

Stan hails from Klein, Montana where he received a B.S. degree in Engineering Physics at Montana State College located in Bozeman. After serving in the U.S. Navy in 1945, he did a short stint for the U.S. Post Office in Roundup, Montana. His career with the AEC (now the Dept. of Energy) began in June of 1958 as Physical Science administrator in Canoga Park, CA and grew to be Chief of the Technical Operations Branch, Chief of the Compact Systems Branch, Assistant Project Officer of the SNAP Project Office, Project Manager of SNAP. On July 1, 1973, Stan was named Director of the Office of Program Coordination and Management-SLAC, and in 1979 he became Project Manager of the SLAC site Office.

In February of 1981, he was reassigned to the Oakland--SAN/DOE Office as Special Assistant to the Manager of Energy Research. He also continued to serve as a liaison between SLAC and SAN. Stan was well liked by all who knew him. In working with him, he maintained his good-natured disposition and willingness to be helpful even in the busiest of times.

His present plans are to just relax for a few months and spend more time with his wife and seven children. Later on, he plans to seek new employment. We all miss Stan and wish him every success in his new adventures and endeavors.

-Verne DaCosta

THE BEIJING COLLIDER

SLAC is playing host to 21 visitors from the People's Republic of China this summer. They are members of a BEPC (Beijing Electron-Positron Collider) study group. They are here to complete the preliminary design of their collider and its detector, and to complete as much of the detailed design as time will allow. Their new machine will be an improved version of the SPEAR storage ring at SLAC, but with a many-times-higher event rate.

SPEAR has been called the most successful High Energy Physics tool ever built. This is partly due to the fact that it stores particles which collide at a range of energies in which a large number of interesting particles states are produced. These states have been studied diligently since SPEAR was brought into operation in 1972. It was here that a SLAC-LBL collaboration using the MARK I detector discovered the psi particle at the same time that an MIT-BNL collaboration at Brookhaven discovered the same particle which they called the J. These discoveries led to a shared Nobel prize in 1976.

Subsequently many other states constituting a family of particles were discovered at SLAC and at other laboratories, and it is believed that there are many more whose discovery would lead to a deeper understanding of the structure of matter. At SPEAR, finding these new states takes a long time because SPEAR's event rate is not very great.

The PRC has decided to make its entry into the world of High Energy Physics by building a machine to explore this rich energy range. It will be built at the Institute of High Energy Physics in Beijing. It will be a 2.2/2.8 GeV per beam electron-positron collider, like SPEAR, but will have a higher event rate. Also like SPEAR, it will be a source of synchrotron radiation for research in chemistry, biology and materials.

As part of a continuing program of cooperation between the two countries, the United States is helping the Chinese to design the new facility. The visitors have offices on the second floor of the still unfinished addition to the Main Control Center (MCC). Phil Morton will provide scientific liaison for the group and will coordinate interactions with the SLAC staff. It is expected that SLAC's engineers and physicists will assist in the design of linac systems, the storage ring, the detector, klystrons, the electronics systems and in setting up mechanical shops.

In addition to the summer visitors, Mr. Wei Zhuangzi of the PRC will be in residence at SLAC for 12 to 18 months to coordinate all purchasing and applications for export licenses for material purchased in the U.S. for the BEPC.

FRENCH LUNCHEON



On June 25 240 people gathered under the oak trees outside the SLAC Cafeteria to partake of a French luncheon, the first in a planned series of international food days.

The chefs were Jean-Claude Denard, a visitor from Orsay, Gerard Bonneaud, a visitor from Strasbourg, Jean-Francois Gournay, a visitor from Saclay, and SLAC's Gerard Oxoby.

On the menu were Gigot d'agneau flageolets, Salade à la Sauce Moutarde, Fromage variés, Poire Belle Hélène, wine, and coffee.

The luncheon was a success. The food and wine were delicious, and the atmosphere was jovial.

The chefs were assisted by members of their families and others at SLAC, and by the SLAC Cafeteria. Thanks are due to the chefs, the SLAC Cafeteria, and the many people who helped.

Another feast is planned for September. The cuisine has not yet been chosen. Ideas, suggestions and helping hands for future luncheons will be gratefully accepted. Contact Joyce Marshall or Cecily Joost at Ext. 3111.

NEWS & EVENTS...

NEW DIRECTOR FOR SERA

A new director, Joan Gardner of the Medical Department, was elected at the semi-annual membership meeting of the SLAC Emergency Relief Association (SERA). Joan replaced Arsella Raman of the SLAC Library and she joins the two current directors, Dick Bierce of Group B and Norb Heinen of the I&C Group. (Charlie Hoard and I continue as permanent Treasurer and Secretary, respectively.) Directors are elected for 18-month terms and the terms overlap to insure continuity of administration.

SERA continues to be one source of potential financial assistance to those in the SLAC community who may be having a severe temporary financial problem. SERA is supported solely by employee contributions, made as periodic contributions or as regular payroll deductions of as little as 50¢ per month. Contributions are tax deductible.

If you would like to learn more about the organization you may contact one of the officers or the Personnel Department.

-Dorothy Edminster

IN MEMORIAM

LUDWIG KUENZELMANN (7/1/33-7/5/82) worked at SLAC in Plant Maintenance Service as an Electrical Specialist since 1979.

VAUGHN DAVIDSON (10/22/49-7/23/82) worked as a mathematician in the I&C Group. He had been with SLAC since February of 1978.

SLAC Beam Line, Bin 80
Stanford Linear Accelerator Center
Stanford University
Stanford, CA 94305

Editorial Staff: Bill Ash, Jan Adamson,
Dorothy Edminster, Bob Gex, Herb Weidner
Photography: Joe Faust, Walter Zawojski
Illustrations: Publications Department



VERA LUTH, a physicist with Group C at SLAC, was recently elected to chair the Physics Advisory Committee for Fermilab.

UNFORTUNATE STORY WITH A HAPPY ENDING

Erh-Sheng Wu is returning to China after spending almost four years with us as a Klystron Engineer. To purchase gifts for him to take home his wife, Yun-Shu Zhu, an engineer on temporary assignment from the PRC Institute of Electronics to the SLAC Klystron Department, had \$280.00 in her purse. It was stolen from her office in the Test Lab during the lunch hour.

I reported the incident at the Technical Division Group Leader's meeting to caution others about the possibility of theft. Larry Kral suggested that we should make up this loss to Yun-Shu by taking up a collection. The response was immediate and overwhelming. It was heartwarming how SLAC people who heard about it responded. Within 24 hours enough money was collected to make up the amount with \$62.50 left over. The surplus was given to SERA--SLAC's own friend to people in financial straits.

I would like to thank those who contributed and those who suggested and took up the collection. SLAC people are truly a wonderful group to come through in this way in a time of need.

-Gerry Konrad



HEALTH
IMPROVEMENT
PROGRAM

The Health Improvement Program (HIP) is offering a hypertension self-management class. Course topics include facts about hypertension, its symptoms, causes and treatments. In addition, participants will learn how to measure their own blood pressure and practice relaxation techniques aimed at lowering blood pressure. The effects of exercise and proper nutrition will also be discussed. The six-week course will meet on Tuesdays, 5:15-7:15pm, Aug. 10 - Sept. 14 @ 730 Welch Road. The registration fee is \$30.00. For further information, call the HIP office at 497-7940 between 9:00 and 3:00, Monday through Friday.