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Sooner Or Later
Parity violation in polarized electron scattering (Maybe October)

This month's cover photo of some of the PEP construction work was taken by Joe Faust several months ago.
Joe Faust took this fairly recent photo of the new Crystal Ball detector en route from its assembly place to its operating position in the East Pit of the SPEAR storage ring. The sodium iodide crystals that make up the principal active elements of the Crystal Ball are sensitive to damage by water (they tend to dissolve, like table salt), so the detection system is enclosed within a surrounding package of insulation which will remain in place at SPEAR to provide an air-conditioned atmosphere. The Crystal Ball was also shown on the cover of the June 1978 Beam Line. We hope to have a more complete description of this important new detector within the next few months.
ENGINE 99

Although the once bright red paint is now dulled by over 30 years in the California sun, scarred from years of hard service, and peeling away in places due to neglect, the majesty of Engine 99 still shines through. The emblems that the Seagrave Corporation of Columbus, Ohio, had proudly affixed to Engine 99 have been removed, perhaps by some scavenger of memorabilia, and old 99 now waits like a dethroned monarch to be sent into exile.

Engine 99 was acquired by Stanford University in the mid-1960's for a price of about $850. Before coming here, the fire truck had been in use at the Alameda Naval Air Station. According to Frank Jurian, Stanford's Asst. Director of Public Safety, the intention had been to use 99 as a backup for the primary fire truck, but as it turned out the Stanford Fire Department built their second engine company around this truck. 99 is classified as a short-range pumper, capable of pumping 750 gallons of water a minute from a fire hydrant.

Engine 99's career has been long and eventful. It was there doing its part during the largest fire in recent Stanford history, the million-dollar blaze at Encina Hall on June 8, 1972. In 1970, Stanford had offered 99 to the highest bidder. SLAC won the bid and bought the fire truck for the Atomic Energy Commission at a cost of $853. In 1977, the engine was placed on the government excess list. By that time, Stanford had become interested in reacquiring the truck because it was considered to be an antique motorized fire apparatus that would be a classic addition to the Stanford Museum.

One odd development was the fact that the town of Jinotega, in Nicaragua, has made an effort to acquire title to the engine. This town has a population of about 20,000, with another 15,000 living in the nearby area. But the town has neither a fire truck nor an ambulance. Alan Wilmunder of SLAC's Accelerator Physics Group is active in an organization called "Amigos," which is a youth-oriented medical program which seeks

Photo by Joe Faust
WALT WHEELER RETIRES

It's time for us to say goodbye, regretfully, to Walt Wheeler, who has been in charge of Shipping for 9 of the 10 years that he has been at SLAC. A full-blooded Wichita Indian, Walt was born in Gracemont, Oklahoma. The Wichita Tribe lives throughout Kansas and Oklahoma, and Walt is planning to make his new home somewhere in that general area after his retirement from SLAC on September 8. Before he came to the Bay Area, Walt had worked for 10 years at the Tinker Air Force Base in Oklahoma as an expediter and material handler.

Charlie Self, the Supervisor of SLAC's Receiving and Shipping activities, will be particularly sorry to see Walt leave. According to Charlie, it is a tribute to Walt's skills that he has never had an item returned because of damage incurred en route.

All of Walt's many friends here at SLAC wish him well in his retirement, and hope that he will have a safe and pleasant trip back to his origins in the midwest.

--Bob Young

--Photo by Joe Faust

(Engine 99)

to assist people in Central America.

Wilmunder worked with a number of Nicaraguan officials in trying to get Engine 99, and the efforts of his group eventually came to the attention of Congressman Paul McCloskey. SLAC investigated the possibility of donating Engine 99 to Jinotega, but it turned out not to be possible to put government property to this kind of use.

While all this was going on, an inquiry about Engine 99 was received from the Chehalis Indian tribe. This tribe has been building homes on its reservation as part of a program to train tribe members as carpenters, electricians and plumbers. Earlier this year, one of the homes had been badly damaged by fire, and the insurance company had threatened to cancel the insurance unless the tribe acquired some fire-fighting equipment. It now appears that Engine 99 will become that needed equipment. The tribe's request has been approved, and as soon as the paper work is completed, old 99 will be ready to begin a new life as a "native American."

This writer finds it refreshing that, even in the face of recent anti-Indian legislation that has been introduced in Congress, native Americans can still hope for some help from their white brothers.

But Engine 99 knows nothing of such things. Perhaps it is just coincidence that, while the manufacturer's emblems are gone and the identifying numeral 99 flakes away in the wind, two bits of official graffiti remain. One reads Official Use Only, U.S. Government, Atomic Energy Commission; the other, Stanford University Fire Department. Oddly enough, neither the Atomic Energy Commission nor the Stanford University Fire Department exists any longer, but Engine 99 remains.

--Bob Young

MEDICAL DEPARTMENT NOTES

1. A series of open meetings sponsored by Alcoholics Anonymous is now underway at SLAC. The meetings are held every Thursday from 12 to 12:30 PM in the Conference Room (Room 126) of the Electronics Building. Anyone interested in the recognition and treatment of alcoholism is cordially invited to attend.

--Charles B. Beal, M.D.
Director, SLAC Medical Department
THEORISTS DAZZLE; LOSE AGAIN

Last June 3rd, Theory and Experiment again locked horns in the 15th renewal of the Research Division's Annual Softball Game & Beer Party (mostly in that order). The highlight of the occasion—of the year, of the decade—was the appearance, approximately en masse, of the impressive-looking bunch of athletes shown in the photo above (taken by Kathy Abbott). Arrayed in spanking new uniforms, with the words SLAC THEORY sandwiching a meaty Feynman diagram (inelastic e-p scattering: right on!), these natty ballplayers made the rag-tag assortment of experimentalists and sundry hangers-on look even worse, if possible, than usual.

Theory also unveiled a secret weapon: Ace fire-balling right-hander Big Mike Barnett (in his Red Sox days known as "Barnburner Barnett"). While in general adhering to the time-honored ground rule of No Nasty Pitches, Just Big Slow Balloons, Big Barns would occasionally let fly a swift one, which on the average scared the hell out of the next three hitters.

This year's game was marked by yet another innovation: the agreed limitation of outfielders from the previous whatever to a paltry 5 at any one time. This had the effect of reducing the ball-fielder cross section to a few femtobarns. On offense, however, no limitations were imposed, and each side wound up with a batting order of 17 men, good and true.

As has become the norm in recent years, Theory surged off to a good lead in the early innings. Cricketers were hitting frozen ropes to all fields. Field-hockey all-stars were whistling bullets down the lines. And Theory hit its peak when with two ducks on the pond Benny Ward sent off a rocket Air Mail Special into a geostationary orbit.

Things looked mighty dark for Experiment that day. The resources available to them had a mean age of 49, a mean waist size of 38, and a mean diagnosis of dyspepsia. They did, however, manage to totter back from an early 8-run deficit to a margin on only -2 going into the bottom of the 9th. The score was 16-14, but the Big Barnburner had lost none of the heat from his money pitch, and his knuckler was still jitterbugging all over the place. Now as luck would have it the first two hitters were 50% of the world supply of experimentalists under age 45, and each tore the cover of the ball. Then followed 102 years worth of ringers of some kind, and both were easy outs. In a spot where nothing but a base hit would do, DeStaebler beat out a bleeder to the right side to tie the score at 16.

Continued on next page
Well, we really don't like to dwell on what happened next. Barns was pitching his heart out, but in the clutch it was natural for some of his defenders to fall back on their early training. So when the next hitter bounced a high chopper toward the right side, it was blocked down beautifully with a left foot, dribbled cleverly around the oncoming runner, crossed crisply toward the far post, and then with a brilliant acrobatic move headed past the lunging goalkeeper into the top right corner of the net. Glasgow Celtic 1, Borussia Moenchengladbach 0. Also, Theory 16, Experiment 17.

But wait till next year. -- A. Ringer

SUCCESSFUL RED CROSS BLOOD DRIVE

On Thursday, August 10, the Red Cross conducted a very successful Bloodmobile drive at SLAC. The 27 donations of blood almost met the goal of 30 pints. The Personnel Office had scheduled 23 potential donors during the week prior to the drive, and several additional persons dropped in to the Auditorium Lobby during the morning. The Red Cross was particularly pleased that 10 first-time donors participated.

Because the Peninsula has become a world center for open-heart surgery, the need for blood in this area is very large. It was gratifying to learn that 17% of the eligible blood donors in this area do donate blood on a regular basis. This percentage is one of the highest in the nation, and is certainly the highest for an area of this size.

To facilitate continued SLAC participation in its donor program, the Red Cross Bloodmobile is scheduled to return to SLAC every three months. The next scheduled visit will be on Friday, November 17, from 8:30 to 11:30 AM in the Auditorium Lobby.

-- Jane Marcus

KEITH KING LEAVES SLAC

Keith King left SLAC on August 18 after having served more than four years as a Program Planner in the Technical Planning group in the Technical Division. Keith left SLAC to accept the position of Director of Information Management Systems with the World Evangelism organization in San Diego.

Prior to joining SLAC, Keith had worked as a Senior Systems Analyst at IBM for 16 years. While at SLAC, he carried out administrative and planning functions for the Accelerator Physics and Accelerator Electronics Departments, and he was also responsible for maintaining detailed statistical records of accelerator operations and the progress of the experimental program.

Keith, his wife Karen, and his daughters Dora and Lisa will be living at 8675 Lynx Road, San Diego, 92126. We all join in wishing Keith the best of everything in his new work.

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