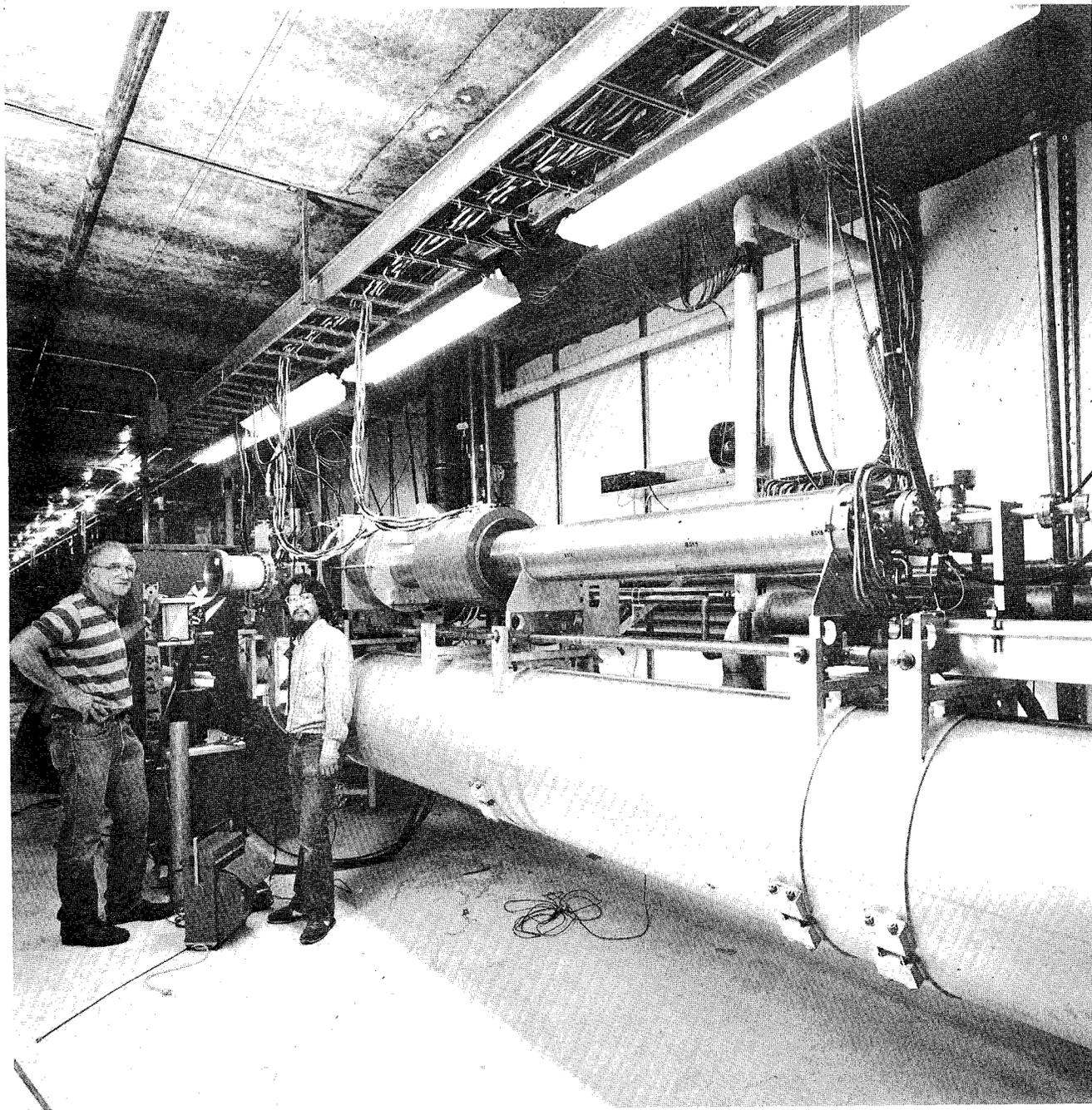


# SLAC BEAM LINE

*Education is ... hanging around until  
you've caught on. — Robert Frost*

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**THE NEW NUCLEAR PHYSICS INJECTOR**

## DRELL RECEIVES MACARTHUR PRIZE



SLAC Deputy Director Sidney Drell has been awarded a MacArthur Fellowship in recognition of "... accomplishments in arms control which demonstrate originality, dedication to creative pursuits, and capacity for self-direction." He will receive \$276,000 over the next five years.

The program is endowed by the John D. and Catherine T. MacArthur Foundation, which has made 141 such awards since its inception in 1981. The prizes, sometimes called 'genius' awards, come without any obligation for the type or nature of the continuing work and are intended to allow the recipients to devote themselves more fully to their creative endeavors.

Drell joined Stanford University as professor of physics in

1956. He became Deputy Director of SLAC in 1969, in addition to heading the laboratory's Theory Department. He has been a member of the High Energy Physics Advisory Panel (HEPAP) and served as its chairman.

He is a recognized expert in arms control and national security and has consulted for the US Arms Control and Disarmament Agency and the National Security Council, among many other government agencies. Earlier this year he became co-director of the Center for International Security and Arms Control at Stanford.

Drell's previous awards include the E. O. Lawrence Memorial award for theoretical physics (1972) and the Leo Szilard award for physics work in the public interest (1980).

## University of Hamburg

### HONORARY DEGREE TO PANOFSKY

Former SLAC Director W.K.H. Panofsky was awarded an honorary degree from the University of Hamburg for his work in high-energy electron physics.

In his acceptance speech at Hamburg on 25 September, Panofsky said:

"I am particularly happy to be recognized for work in high-energy electron physics, considering the fact that Hamburg is a leading center on that subject. The decade of the '70s can be called the 'decade of the leptons,' the family of still-elementary particles of which the electron is one. Prior to that period only some crazy people and laboratories decided to brook the mainstream of particle physics by centering their research on electron machines. At the time when SLAC was started the community acquiesced to its construction because at that time science budgets were growing annually at a substantial rate and competition was minimal. However, there was certainly no enthusiasm or any rush for outside users to plan experiments. Thus, initially, SLAC gathered its own group of physicists who shared an interest in exploiting electron beams both for the study of lepton interactions with nucleons and as sources of secondary beams of unique properties; the rest is history ...

"All this has added up to an extraordinarily productive period in which I had the good fortune to participate. I am grateful to you for making this participation even more rewarding."

## Cover

### NEW INJECTOR INSTALLED

The cover photo shows Roger Miller, left, and George Leger by the new injection system recently installed in the linear accelerator tunnel at SLAC. The equipment between the two men produces the intense, but low energy, electron beam which is then bent back into the linac section on top the big aluminum supporting tube and then accelerated toward the right.

The new system, called NPI for Nuclear Physics Injector, will inject electrons into the last six sectors of the linac producing the low-energy beams needed in nuclear structure experiments in End Station A. This will be significantly cheaper than the present method in which even these low-energy beams must run the full length of the machine. The system provides much more flexibility for the overall SLAC program. Its first use, in fact, was to inject an electron beam into SPEAR for checkout this fall before the full linac was providing beams.

Wednesday, November 14

## RICHTER INAUGURATION CEREMONIES SET

### SYMPOSIUM ON THE TENTH ANNIVERSARY OF THE NOVEMBER REVOLUTION

— 9:00 am SLAC Auditorium —

Chairman . . . . .	G.J. Feldman
Welcome . . . . .	Sidney D. Drell
The Discovery of the <i>J</i> . . . .	Samuel C.C. Ting
The Development of Colliding Beams . . . . .	John R. Rees
The Discovery of the $\psi$ . . . .	Roy F. Schwitters
The Impact of the November Revolution . . . . .	James D. Bjorken
Recent Results in Quarkonium Physics . . . . .	David G. Hitlin

### LUNCH

— 1:00 pm behind the SLAC Cafeteria —

### INAUGURATION OF BURTON RICHTER AS DIRECTOR OF SLAC

— 2:30 pm on the Green at SLAC —

Master of Ceremonies . . . . .	J.R. Rees
The Significance of the November Revolution . . . . .	Frederick J. Gilman
Remarks . . . . .	Wolfgang K.H. Panofsky
Remarks . . . . .	James E. Leiss
Inauguration . . . . .	Donald Kennedy
Address . . . . .	Burton Richter

### RECEPTION

— 4:00 pm on the Green at SLAC —

Burton Richter will be inaugurated as SLAC's Director on Wednesday, November 14, by Stanford University President Donald Kennedy. The formal ceremony will be held on the green at SLAC beginning at 2:30 pm in the afternoon and will be followed by a reception at 4:00 pm. All SLAC staff are cordially invited.

A technical symposium and luncheon will be held that morning for attending physicists. This will mark the tenth anniversary of the discovery of the charmed quark system. These discoveries — and the colliding-beam technique which exploited them — resulted in such a rich flow of new physics that the period has been called the November Revolution, hence the title of the symposium.



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SLAC BEAM LINE, x2979, Mail Bin 94

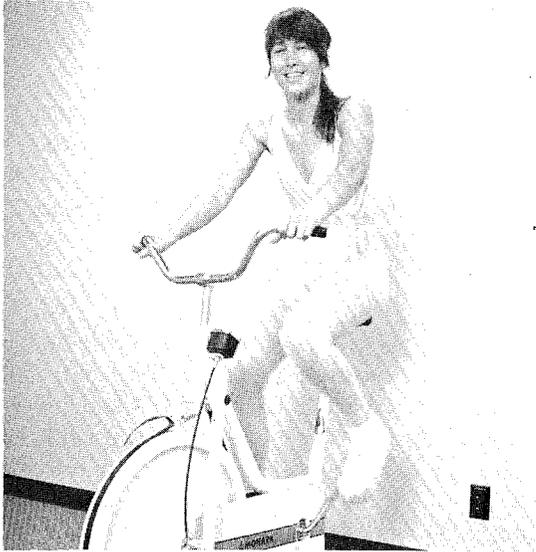
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Stanford University operates SLAC under contract with the US Department of Energy.



## SLAC GETS A WORKOUT

• **The New Exercise Gym** An exercise room for SLAC staff is being built in the Electronics Annex, behind the Electronics Building. Equipment includes exercycles, rowing machines and a treadmill.

The steering committee, which will plan for its use, consists of Lamont Barton (x3335), Wayne Bennett (x2226), Jean Michel (x2411), Ken Moore (x2371), and Bill Savage (x2980). An organizational meeting will be held at the Exercise Room at 12:00 noon, Tuesday, November 20. If you are interested but can't come to the meeting, you can demonstrate your interest by calling one of the committee members.

← *The pedaling of the Library's Jean Michel.*

✓ *Lamont Barton of SLAC Computing Services works out on a rowing machine.*

• **The New Showers** The new shower facility should be ready for use by November 15. It is located at the west end of the Electronics Annex behind the Electronics Building. The users must provide their own soap and towels. Lockers for use while showering or exercising are coming soon.

• **13th Annual Footrace** If you like to run, come beat your feet in the thirteenth annual running of the SLAC Classic on Thursday, November 29. Show up at noon at Sector 30 to register; race time is 12:10 so don't be late.

SLAC Race tee-shirts featuring Bob Gould's Wizard will be on sale for four bucks before, during, and after the race. Cooling beverages will be on sale (free to finishers). Prizes this year will include ribbons for all finishers, Beam Trees for the first SLAC man and woman to finish, and race medallions for men and women winners in several categories: first overall, first under 30, 30-39, 40-49, 50 and over, and a mystery position. In case a runner wins more than one prize, the second prize will be awarded to the second-place finisher. The 3.8 mile race will be run rain or shine.

## CHECKING UP ON YOUR HEALTH

In keeping with current practice, the SLAC Medical Department is shifting its emphasis from regularly scheduled annual physical examinations with a full array of tests to individualized examinations with tests attuned to specific risks and an emphasis on preventive medicine and lifestyle counseling. Emergency care will continue to be provided as before.

Beginning 1 November 1984, SLAC employees over 50 will be notified to contact the Medical Department to schedule their physical examination every two years rather than annually. This bi-annual exam will be a full testing program including Doctor's History and Physical Exam, EKG, Pulmonary Functions, Hearing, Vision, Tonometry (Glaucoma), Blood and Urine Test and TB skin testing. Additional tests are at the Doctor's discretion.

SLAC employees under 50 will receive notices from the Medical Department to schedule a routine examination every five years. Routine testing will include Vision, Hearing, Pulmonary Functions, Urinalysis and TB skin testing. Additional testing is at the Doctor's discretion and will be determined at the time of the examination.

If you are in a high-risk category because of work-related exposures you will receive notices to have more frequent examinations.

If you are in high-risk category from personal health problems, you may have more frequent health examinations upon your own request. Please call the Medical Department in your birth month to arrange for these exams.

—Madlyn W. Stein, M.D.