“Moratorium” Party for 82” Bubble Chamber

Running Circles Again

Sixteen runners representing SLAC, Stanford Running Club, and Lee Alton High School assembled at the starting line for the Alex Gallegos-Gregg Hover Challenge Race on Saturday, October 27.

The idea to hold this event came about several weeks ago immediately following the SLAC Annual Long Distance Run, which second place runner Alex Gallegos approached Ron Hover, whose son, Gregg, was the unofficial Third Place winner. A friendly rivalry began, and from it came the idea for a challenge second fun.

Extremely fast times were recorded for the race run over the 4-mile route around the gallery:
- 1st - John Ferguson, SRC, 20:58
- 2nd - Tony Deagano, LASR, 21:07
- 3rd - Ray White, SRC, 21:27
- 4th - Dave Cathell, SLAC, 21:45
- 5th - Gregg Hover, LASR, 21:51
- 6th - Tony Beaures, SLAC, 22:13
- 7th - Bill Jackson, LASR, 22:27
- 8th - Jeff Richmud, Pipers Lake Runners, New York, 22:48

The timers were Gerard Putallaz, Don Camp, and Don Hover. Thanks, fellas, for your assistance!

Three more events are being planned to take place during the next two months, and we are try-

AEC Chairman Visits

Dixy Lee Ray, AEC Chairman, visited SLAC on the afternoon of November 13. This was the first AEC high energy physicists who had visited.

Accompanied by Dr. John Teem, head of the AEC’s Division of Research, Dr. Ray met with Deputy Director R. Drell and Associate Directors R. Neal and J. Bollman for about forty minutes and then spent about an hour and one-half touring the site.

On tour, the visited (among other places) End Station A and SPEAR. She was particularly interested in the spectrometers in K4, and had a lively discussion with Robert DeStabler (Group A) on their operation.

Dr. Sid Drell accompanies Dixy Lee Ray on her tour of SLAC.
Contract Signed for New Computer Building

A contract was signed on October 9, 1971, for the architectural and engineering services required to construct a new building to house the Computer Center at SLAC. The total project is estimated to cost $22 million. Participating in the contract are Albert Hoover and Associates, Architects, Palo Alto, and Stanford University as operating SLAC.

The three-story, 50,000-square-foot structure will house three large computers (IBM 370/168 computers and an IBM 360/91) in using the three types of computer hardware architecture and also the 100 or so personnel from the Stanford Center for Information Processing and SLAC's Scientific Computing Group needed to operate the facility. It also will house a number of smaller computer systems. It will house the Software Center, the three Computer Centers, and the Central Laboratory.

Car Pools To Be Formed

If you're tired of highway congestion and the attendant pollution and are also concerned about the rising costs of gasoline and oil and the growing scarcity of those substances, you may be interested in forming a car pool with SLAC employees living near you. If so, the Personnel Office would like to help.

Those interested in forming car pools should send (don't phone) the following information to Marie Appap (Room 11):

- Name of pool
- Address and phone number of home and work
- Number of pool members
- Time and day of meeting
- Time and day of trip
- Distance of trip
- Whether interested in carpooling one way or both ways.

Personnel will compile a list of interested parties and set up tentative pools on the basis of geographical and hours of work. Each member of each pool will be given the names and SLAC telephone numbers of other people in his or her group. One person in each pool will be asked to organize the pool from this point on - if you are interested in being an organizer, please indicate this when you send Marie the information asked for above.

AEC Happenings

The week beginning Monday, December 12, there will be an AEC Compliance Team visiting at SLAC. Any one interested in meeting with them please contact Jim Ketchum, extension 2352.

Running Circles...

(continued from front page)

ing to include the bicyclists in these activities whenever possible. Brookhaven National Labora-
tory has a program underway on SLAC where they hold a Long Distance Race and a Bicycle Race. We are now trying to get the ASLAC and SLAC people to do these races with them, and if they accept, the event will possi-

ble something like this: an 8-mile course and a 10-mile bicycle race. The bicycle race is sponsored by SLAC (and hopefully at Brookhaven). The SLAC races will be held on the SLAC road connecting the Administration Building, Cafeteria, and Central Lab.

The course will be approximately 8 miles long, so the runners will have to run around it 10 times and the bicyclists 20 times. Average time of the first 10 runners to cross the finish line will be computed and this time will be our official time entered. The same system will be used in the Bicycle Race: more on this event later.

On Wednesday, December 14, in the week just

before Christmas vacation, we're going to stage a running of Goodwill Jog of the SLAC facility. It will be a 6 1/2 mile run for those runners with a short lunch break, a drop-out point after 2 1/2 miles has been arranged at Sector 36. The bicyclists are invited to join in on this one, although they may be a speed bump to traffic and pedestrians, etc.

Hope to see you there!
Net More

Plant Maintenance

SLAC Job Openings

The following positions are available at SLAC for internal placement.

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Party for 82" HBC

(continued from front page)

Dr. Lewis Alvarez came for the festivities. In 1968, he won the Nobel Prize at LBL for "the discovery of a large number of resonance states, made possible through your development of the technique of using hydrogen bubble chambers and data analysis." George Chabock, SLAC, is on his right.

Dr. Ballam (right) presents a plaque to Bob Watt which reads: "To Robert D. Watt and the Crew of the 82" Bubble Chamber. In appreciation for their contributions to high energy physics through the magnificent operation of this chamber."

"Big bang" noises, if you've ever been around while it is operating, can be heard.

A good number of our present Bubble Chamber Operating Group staff came from LBL along with the chamber itself and have continued as function of "the valves of the machine" (as Jim Ferrie of BCO puts it) in a team which grew to meet the needs of SLAC scientists.

What happens without the 82" chamber?

Both the 40" and the 15" chambers (previous BCS) can be used in their present use will be kept in full-time to fill the hole left by the 82". In fact, the ratio of pulses in pictures in the 82" was about 2:1, which produced a large number of pictures. Many of these pictures were of very common events. However, in the changeover to the 15" (Rapid Cycling Bubble Chamber), faster on-line computer analysis techniques will keep pace with the fast-rate pulses of the 15", with the result that perhaps only one picture in every 500 pulses would be taken. Particle detectors in the chamber transmit electronic signals to the computer, and it tells the camera whether or not to take a picture. (This technique requires time less than 3 1/2 seconds, second "long time" in present computer language.) Thus, the highly-

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Bicycles

The following safety notice was issued at another lab after a bicycling accident:

"This disabling injury (broken arm), resulting from taking a shortcut across rough terrain, prompted a review of some principles of safe bicycle operation. Inspect bicycle for mechanical soundness and safe operation before use. Use bike racks for bicycle parking. When bikes are discarded or shipped overseas, disassemble it. Salt on the edge of the front fender, tire-to-fender clearance is reduced, and fender becomes more resistant to the effect of the rear tire. Pedal with the balls of your feet for better control, more power and increased clearance in front fender.

- Keep on established bikepaths and roadways. Use bike lanes where provided. Right of way of roadways where bicycle lanes or paths do not exist.
- Walk bicycles when crossing in crosswalks. Overtake traffic signals. Bicycle riders are required to comply with vehicle codes and ordinances.

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Published by the SLAC Public Information Office P.O. Box 4349, Stanford, California 94309 Tel. (415) 854-3505 Ext. 2004
NOTE TO MEMBERS OF THE BEAMLINE FROM FIEF IN SWITZERLAND:

This is the first time I have been away from Stanford at Christmas time for fourteen years. It is good to learn here at CERN about the progress and methods of the High Energy Physics institutions in Europe, but it is even better to find that SLAC is regarded as a truly great laboratory by all. I am also pleased (but not surprised!) that SLAC runs even better when I am not there. With many thanks and best wishes for a great Christmas and peaceful New Year.

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SEASON'S GREETINGS -- A computer crossword to you from Dave Gustavson in Group F.

LETTERS  CANDY  MERRYCHRISTMAS

COOKIES   PINE    HAPPYNEWYEAR

FRIENDS     NOEL    SILENTRIGHT

CAROLS      STAR     CELEBRATION

PEACE       JOY      SLEIGHRIDE

CAROLS      SANTACLAUS

SILENTRIGHT  SNOWFLAKE

PEACE       MISTLETOE

CAROLS      GREETINGS

PEACE       CANDYCANE

BELL'S      FRUITCAKE

HOPE         BLESSINGS

REINDEER     PRESENTS

MEMORIES    HOLIDAY

SNOWMAN

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HOLIDAY GREETINGS:

COME TO OUR SPECIAL LUNCHEON AND PARTY

Thursday December 20, 1973

11:30-12:30
Luncheon - In SLAC Cafeteria, $1.50 per person
Menu - Turkey with dressing and cranberry sauce -or- Roast beef
plus
Salad, mashed potatoes, vegetable, roll & butter, coffee, and
Cake - or - mince or pumpkin pie

The Palo Alto High School Madrigal singing group will be in the cafeteria singing
Christmas selections from about 11:45 to 12:15.

12:30-1:00
Christmas caroling and special songs for all (who fit) in the SLAC
Auditorium. The "Madrigals" will sing special numbers, followed by
a soprano duo of Henry Purcell's "Sound the Trumpet." Then the
whole SLAC chorus (everyone in audience) are invited to join in
singing favorite Christmas carols.

1:00-1:30
Cookies and punch in the breezeway --
Christmas greetings from Sid Drell
Drawing and prizes --

DETACH HERE FOR SLAC DRAWING

(PLEASE PRINT)

NAME

DEPARTMENT