

The Interaction Point

Events and Happenings
in the SLAC Community
August 1996 Vol. 7, No. 5



Let the Games Begin

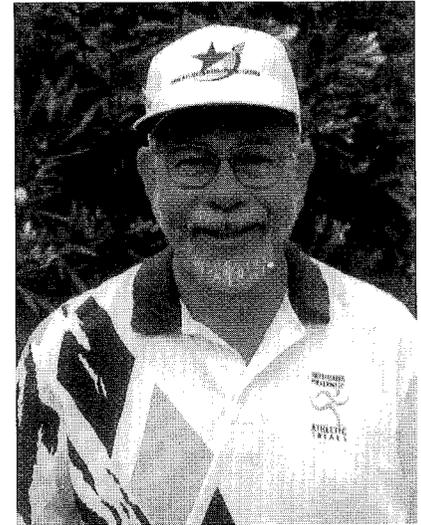
This year Gerard Collet will achieve a lifetime goal — he will be a track and field official for the Paralympic games in Atlanta. Collet, a science and engineering associate at SLAC for 26 years, is a resident of San Jose. He is registered with the U.S.A. Track and Field officials, and in that capacity is called on for local, regional and — now — international events.

The Paralympics are sporting events for the physically challenged — those who are blind, amputees, those with cerebral palsy, or the wheel chair bound. The competition starts in Atlanta on August 15th. Collet has been assigned to work the long jump where he selects marks, conducts measurements, secures tape, and records distances, among other tasks.

Collet himself has never participated as a competitor in track and field events. He got started officiating when his daughter Lisa was in elementary school and developed an interest in running. Lisa is now a senior at Fresno State majoring in athletic training and physical therapy, and she competes in the heptathlon.

There was a time when the Collets — Jerry, his wife Pauline, and their daughters Lisa and Rachel — were all officials. Rachel is now enrolled at the Culinary Institute of America where she is studying to be a chef.

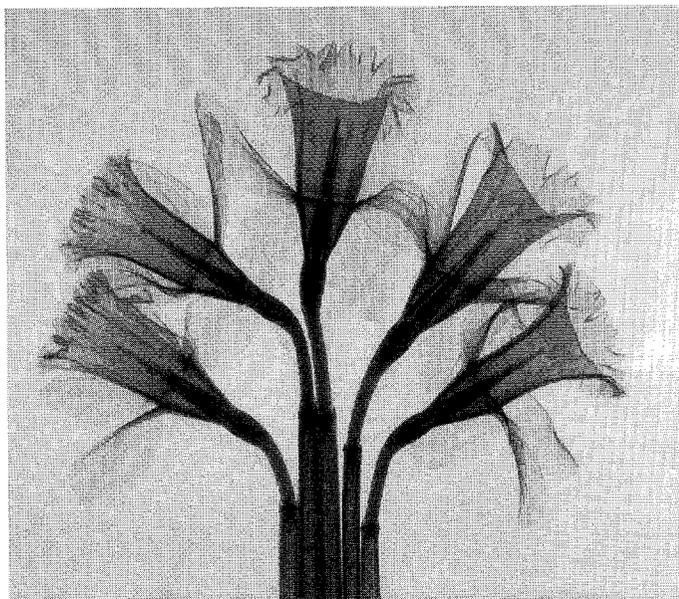
It is estimated that there will be more than 3500 competitors from 127 countries in the Paralympics this year, with 900 competing in track and field. Of these, the US team will have 105 slots.



P. A. Moore

Jerry Collet looks official in his uniform for the upcoming Paralympics.

DeStaebler X-ray Photos on Display



H. DeStaebler

X-ray images taken by SLAC physicist Hobey DeStaebler have garnered "oh's" and "ah's" since being permanently mounted in the Central Laboratory foyer several weeks ago. The images of daffodils, calla lilies, and shells (to name a few), which show the intricate and normally hidden inner structure, were photographed over thirty years ago at the Stanford Physics Department.

They received new interest when David Leith, Associate Director of the Research Division, mentioned their existence to Rene Donaldson, co-editor of the *Beam Line*, who was looking for X-ray photographs to illustrate the lead article in last summer's issue celebrating 100 years of X rays.

While the images used in the *Beam Line* were digitally enhanced by SLAC graphic artist Terry Anderson, the photographs in the exhibit are printed from internegatives taken from the original prints. This procedure was used because a uniformity of background was desired, and over time, the quality of the negatives had deteriorated.

Hobey, who retired in 1995, continues working part-time on projects for PEP-II.

Peace Sculptures on Display

On a visit to the lab last year, local sculptor Bruce Kueffer noticed the Hiroshima sculpture on display in the Auditorium Lobby. Created by Arto Chakmakjian, this statue was presented along with a companion piece (on display in the A&E Lobby) to SLAC Director Emeritus Dr. W.K.H. Panofsky by the Director of the Physical Institute of Armenian Socialist Soviet Republic at the SLAC Dedication Banquet on September 9, 1967.

Touched by this link of art and science, Kueffer decided to donate the sculpture *Sadako* for permanent exhibit in the Auditorium Lobby. The story of Sadako and the Thousand Paper Cranes is one of courage,

spirit, and hope.

A young girl who was two when the atom bomb was dropped on Hiroshima, Sadako determined to build 1,000 paper cranes to recover from her developing leukemia. She was only twelve years old when she passed away, having finished folding six hundred and forty four cranes. Her friends and family folded the rest to meet her goal.

Michiko Benevedes, a Nagasaki survivor, accompanied the artist's family on the arrival of the artwork at the lab in June. As Benevedes arranged the colorful paper cranes around this figure of the courageous young woman, she commented, "It is Bruce's hope that *Sadako* will serve as an inspiration to the many people who visit SLAC from throughout the world — and especially the children."

— Nina Stolar

"Ask Ellen"



P. A. Moore

Meet Ellen Waxman, the new Ombudsperson for SLAC and Stanford University campus. Her office is in Central Lab, Room R101B and phone extension is 3826. She is on site Tuesday afternoons and Friday mornings to help staff with workplace problems.

SLAC Seminars and Events

The SLAC Seminars database includes seminars, meetings, and laboratory events. This information can be found on the SLAC Home Page under Institutional Information at Seminars or at <http://www.slac.stanford.edu/grp/pao/seminar.html>.

On SLACVM type the word Seminars. Portions of this database are published weekly as the Compendium, which can be viewed on Netnews in the groups `slac.seminars.physics` or `su.events`.

For additions to the Seminars database, please call Kristy Nelson at ext. 2204 or send e-mail to NELSONKD@SLAC.Stanford.edu.

Welcome New Guests and Employees

The following people joined SLAC during June: Samanta Annuzzi, Klystron; Lynn Cominsky, Group EK; Frank Daar, THP; Dennis Frezzo, THP; Keith Geller, THP; John Groves, THP; Hidezumi Terazawa, THP; Marissa Diaz, ES&H Planning Office; John (Eric) Doyle,

BaBar; Carlos Figueroa, THP; Bart Johnson, SSRL; Wayne Johnson, Klystron; Xinhua Li, Group EC; and Vinay Srinivas, TSP. We also have a number of students on site: summer hires, outreach program hires, GEM participants, and Summer Science participants.

SLAC physics community should sign up NOW for the SLAC Summer Institute '96

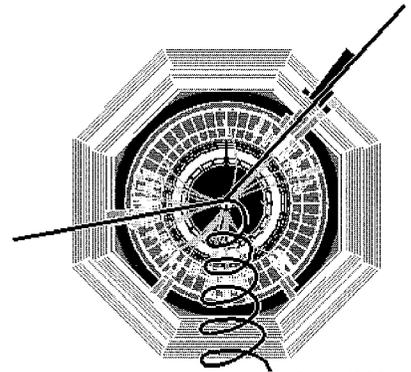
The 24th Annual SLAC Summer Institute will take place August 19-30, concentrating on the Strong Interaction frontier of high-energy physics. The Institute agenda contains lectures on experiment and theory along with in-depth discussion sessions in the afternoons. During the Topical Conference section of the Institute (August 28-30), recent experimental and theoretical results will be presented.

The welcome reception will be held August 18 from 4-6 PM at the Rodin Garden on Stanford campus. Other events include

the annual tour of Lick Observatory, a challenge soccer match with the SLAC Soccer Team, an afternoon computer fair, social events, and dinners.

We invite the SLAC physics community to be a part of the Institute, because this provides an excellent opportunity for young physicists to share ideas. Fees are \$230 for students and \$380 for non-students.

For further information, please visit our SSI web-site: <http://www.slac.stanford.edu/gen/meeting/ssi/next/ssi96.html> or contact Lilian DePorcel at ext. 2710.



Courtesy of SLD Experiment

and speaking of physics...

1996 Z Production Chart

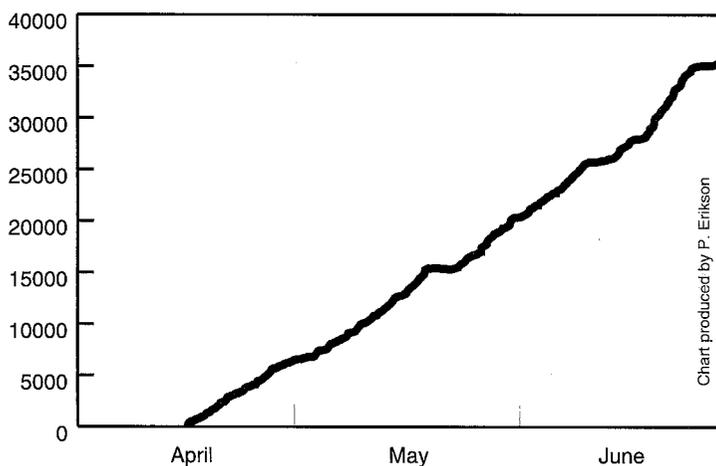


Chart produced by P. Erikson

This chart shows the number of Z particles captured by the SLD detector this year to date. The accelerator got off to a slow start because of the February fire in the north damping ring vault, necessitating extensive repair work over the following two months.

By mid-April, SLAC staff restored the machine to operating condition and Z production began. Since then, the SLD precision vertex detector has been fully commissioned and is resolving the decays of Z particles in unprecedented detail. In addition, SLAC has achieved several new records for machine performance.

The SLC plans to run experiments until the end of July. In August, there will be short runs of the Final Focus Test Beam and the ASSET (Accelerator Structure Set-Up) experiment. Both of these experiments are part of SLAC's involvement in the development of future linear colliders.

Scofflaws, Beware!



There is mixed response to the Operating Safety Committee proposal to deal with on-site traffic violations. Some are pleased that there might finally be some punishment for persistent violators, but others feel that the OSC sanctions are too severe.

The OSC was chosen to review traffic problems since it is the largest site-wide committee which deals with safety. The size and composition of the OSC ensures that there is broad input on the recommendations and that the voice of SLAC employees is represented.

There are 22 members on the Operating Safety Committee at this time, in addition to Janice Dabney as Chair, David Gordon

as Safety Officer, and Sharon Haynes as recorder.

The recommendations for parking and moving violations range from warnings to termination of employment. SLAC Personnel, Security and other departments are looking into how such sanctions might be applied most effectively.

While the OSC recommendations wind their way through various groups for review, all those who drive on SLAC roads, staff and visitors alike, are urged to obey traffic regulations on site. Send your comments on SLAC traffic to tip@slac.stanford.edu for possible publication in a future edition of *The Interaction Point*.

Visitor Center Progress

By the end of July all of the larger exhibits will be installed in the long awaited SLAC Visitor Center, adjacent to the Auditorium Lobby. As the brown paper has been slowly peeled away, you may have caught glimpses of the klystron and the accelerator sections on display. Those flashing lights you see are on the cosmic ray detector. Soon, the signage will follow and the doors will open. The entryway features a photo montage of people at work throughout the laboratory, which will welcome the general public, our friends, and families to learn about what we do here.

We plan informal preview showings so staff can be prepared to host guests and visitors in this exciting new lab facility!

Update: Child Care Plans for SLAC



For the past few years there has been an effort underway to explore options for providing on-site or nearby-site child care for SLAC employees. The cost of SLAC developing a child care center on its own was found to be prohibitive. Other options explored in collaboration with other Sand Hill Road employers also did not prove feasible.

The alternative presently under consideration is to invite a private contractor to develop and operate a center on the SLAC site. The contractor would be granted the use of the land in exchange for permis-

sion to operate the center for a period of time that would allow it to recover construction costs. This model has been used successfully at other national laboratory and university sites. Work is underway to identify an appropriate location on site and to clarify legal issues related to land use. Department of Energy approval will be required for use of the land and for any costs that SLAC would incur.

For more information or to help with this project, contact Mary Hall Ross at ext. 4776, or mhr@slac.stanford.edu.

In Memoriam

William Wadley, 71, died June 29. Bill was recruited from the University of Chicago by Professor Bob Mozley. He worked for Mozley in Experimental Group D for the next 26 years, until retiring in 1990. In addition to his regular duties, Bill was a mentor and role model to many high school and college students who worked here during the summer.

He also served on the board of directors of the Peninsula Girls and Boys Club in East Palo Alto and was vice president of the Palo Alto/Menlo Park Optimists' Club. Bill was respected by his peers and colleagues for his technical knowledge, dependability, and professionalism. Donations can be made to the Make A Wish Foundation, 1298 E. 14th Avenue, Suite 320, San Leandro, CA 94577, or your favorite charity.

FactinOs

TOM PAVEL celebrated the defense of his thesis entitled, "Measurement of Charged Hadron Spectra at the ZO with Cherenkov Ring Imaging," on June 19th at a party held in his honor. The final thesis will be submitted this summer. Tom first came to Stanford University as a Grad Student in the fall of 1988. He began working on the SLD CRID system at SLAC the following summer. Several weeks ago, Tom became a full-time SLAC employee, now working for BaBar on developing and maintaining the online workstation farm used in their data acquisition. Congratulations, Tom, and our best wishes for your future endeavors!

Attention, Hispanic staff: Find out about SHEC (SLAC Hispanic Employee Community) activities and upcoming elections. Call Frank Martinez at ext. 3504 for dates of future meetings.

Thanks to all the willing volunteers who helped with "A Medical Department's Triage Functional Exercise" on July 9, organized by Rich Huggins. All SLAC staff can be proud of our ability to respond to people's medical needs in cases of emergency. Incidentally, volunteers are being sought for a permanent Triage Team. Contact the Medical Department at ext. 2281 for more information.

ARGONNE has a new Director. Dean E. Eastman began his new role as Director of Argonne National Laboratory on July 15, 1996. He succeeds Alan Schriesheim, who stepped down after 12 years as Director. This comes at a time when Argonne, the nation's first multipurpose national laboratory, is celebrating 50 years of scientific and technological achievement. For more information of this topic, check out Argonne's website: <http://www.anl.gov/OPA/news96>

New Area Codes:

- from 757 to 804: Thomas Jefferson National Accelerator Facility (formerly CEBAF) — effective 7/1/96
- from 708 to 630: Argonne National Lab — effective 8/3/96

Announcement of Faculty Position

Dr. Dong Su will join the SLAC High Energy Physics Faculty as Assistant Professor on January 1, 1997. Prior to his appointment as Assistant Professor, Dong Su had been a Research Associate in Group E, working on the Stanford Large Detector (SLD) where he headed the Heavy Flavor Physics group and the Tracking Group. Professor Su was the chief resident physicist responsible for the operations and maintenance of the SLD vertex detector.

He received his BSc. and Ph.D. from Imperial College, London University, and has worked at the High Energy Physics Institute in Beijing, China, and the Rutherford Appleton Laboratory in England.