

FermiNews

The Newsletter of the Fermi National Accelerator Laboratory

USERS LOOK TO THE FUTURE

Nearly 400 users and Fermilab staff gathered for the Users Annual Meeting June 9 and 10 in Ramsey Auditorium. The day- and a half-long discussions emphasized the recent evidence for top quark production and the future direction of high-energy physics.

Chairman of the Users Executive Committee BRUCE BARNETT welcomed the Fermilab users and community to the meeting. Bruce remarked that this had been a very eventful year for high-

energy physics in the United States with issues ranging from the termination of the SSC, to the announcement of evidence for top quark production, and to the new study groups created by HEPAP, DPF and Fermilab regarding future developments for the field.

Bruce said that the organizers of the meeting found that a one and a half-day meeting was needed rather than the traditional one day meeting in order to cover the new physics results from the many experiments at Fermilab and to discuss their prospects for the future. Time was also needed to discuss the reports of the study groups that are making long-term plans for high-energy facilities and international collaborations.

Also speaking at the Thursday afternoon session was new URA president FREDERICK BERNTHAL, *continued to page two*



Frederick M. Bernthal

BERNTHAL NAMED URA PRESIDENT

FREDERICK M. BERNTHAL was selected president of Universities Research Association (URA). Bernthal succeeds retiring president JOHN S. TOLL.

URA Board of Trustees chairperson AGNAR PYTTE said, "We are very enthusiastic about Fred Bernthal's acceptance of our offer. He is a scientist and statesman of high accomplishment. His extensive international experience, both in science and in government, as well as his direct participation in the most urgent science-policy issues of our time while on Capitol Hill, equip him admirably for leadership of URA."

Bernthal holds a Ph.D. in nuclear chemistry from the University of California at Berkeley and a B.S. in chemistry from Valparaiso University. He recently served as deputy director of the National Science Foundation. ■



Sidney Drell (l) talks with Bruce Barnett during the 1994 Users Annual Meeting.

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USERS MEETING

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Director JOHN PEOPLES, Deputy Director KEN STANFIELD and Associate Director TOM NASH.

In his speech on the vision of the next 15 years, John Peoples discussed the plans for Fermilab III, which include new facilities for fixed-target operations and continuation of the Collider luminosity increase. John also spoke on pursuing the energy frontier at Fermilab. To realize this vision, he said, Fermilab must "resume a vigorous program of accelerator magnet R&D focused on developing cost effective, high-performance superconducting magnets, and continue to strengthen the Tevatron collider program through higher luminosity over the next 10 years while the Tevatron defines the energy frontier." John added that the Lab will also need to become a reliable partner with the rest of the

world in the construction of the LHC at CERN. After the LHC turns on, John continued, Fermilab will participate in the LHC experimental program and continue a strong, complementary physics program with the Tevatron and Main Injector and continue a vigorous accelerator R&D program.

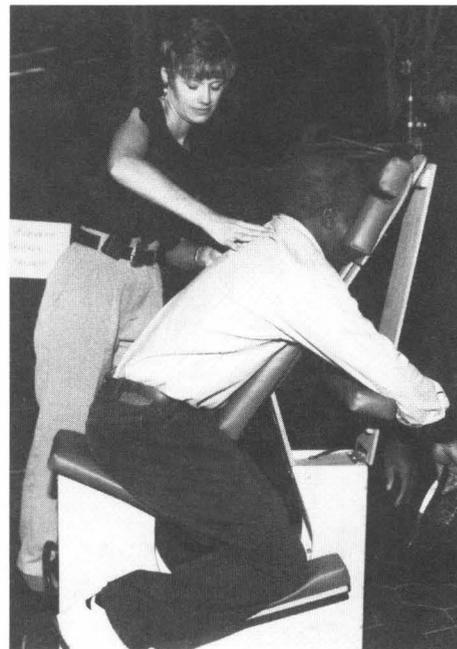
John noted that in the long term, a hadron collider with a center of mass energy greater than 60 TeV will be a likely successor to the LHC. Fermilab's vision is to be the U.S. candidate site for that collider and to participate in the global collaboration that will build the machine. In that spirit, John said, Fermilab will remain at the forefront of hadron collider technology by improving the performance of the Tevatron (as an injector for a 60 TeV collider) and develop affordable high field mag-

nets. One possibility would be to increase the Tevatron energy by a factor of two as a prototype demonstration.

Among other talks given that afternoon were discussions on perturbative QCD by VASSILI PAPA VASSILIOU (Argonne), charm physics at Fermilab by HARRY CHEUNG (Physics) and a summary of the Charm2000 Workshop by DANIEL KAPLAN (Northern Illinois University).

The Friday morning session began with a brief review by Bruce Barnett of the history of the demise of the SSC and the subsequent actions taken by the Department of Energy and the HEPAP subpanel, and in particular, the HEPAP subpanel's report on the vision for the future of high-energy physics. Bruce then introduced SIDNEY DRELL, the chair-

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Employees enjoy complementary eye exams and massages during the Fermilab Health Fair held June 8, 1994 in the Wilson Hall Atrium. At the Wellness Committee-sponsored event, employees took advantage of the many health screenings offered, including blood pressure checks, diabetes testing and spinal exams. Local hospitals, health organizations and support groups also provided attendees with give-aways, demonstrations and literature.

RENOVATIONS FINISHED AT PAD DORMITORY

Final touches on a renovation project at The PAD dormitory at 32 Sauk Blvd. were made last month, marking the completion of Fermilab's first fully handicapped-accessible dormitory.

The newly-renovated dorm will provide housing for eight visiting scientists and/or students with disabilities. The Pad, originally an all-male dorm, was renovated from an 11-room facility

with one large central bathroom to an eight-room co-ed dorm with four large independent handicapped-equipped bathrooms.

According to JOHN BARRY, Accomodations Office Manager, the newly-renovated dorm will provide state-of-the-art accomodations for people with disabilities. Features of the new dorm include bathrooms with non-slip floors, railings in and out of the showers and specially-equipped shower tubs and plumbing fixtures. Doorways, rooms and hallways in the dorm were also enlarged to allow for wheelchair access.

Other features of the dorm include lower-height dressers, beds and closets in the individual rooms and special lamps that can be turned on either by a switch or by touch. Phones for the hearing-impaired with adjustable volume and tone controls have been

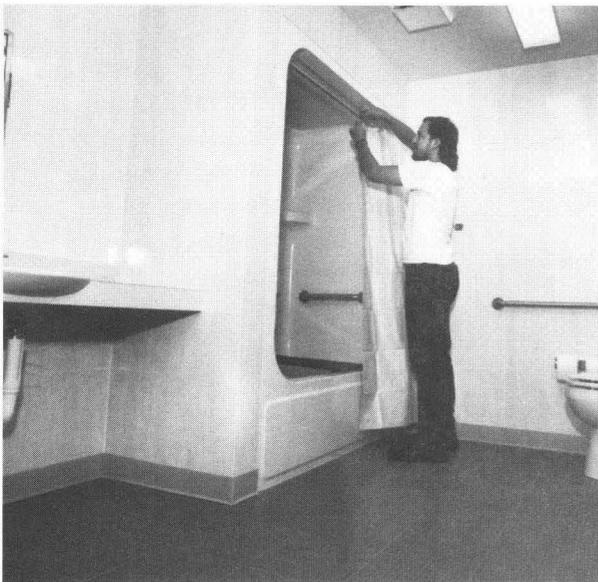
installed along with visual, as well as audible, fire alarms.

The dorm also features a centrally-located handicapped-accessible kitchen. The kitchen has specially-designed utensils with large-grip, soft rubber handles and the sink and stove are open underneath for wheelchair access.

John said that during the renovation project, in addition to following the American with Disabilities Act (ADA) regulations, a wheelchair was used to ensure that there was adequate accessibility and turning radius in the rooms and hallways. "It really helped us to point out potential problems."

John added that the new dorm complies fully with all regulations of the ADA. Under the act, Fermilab is required to have five percent of its facilities handicapped accessible. These renovations place Fermilab in compliance.

The PAD was named after Priscilla A. Duffield, Robert Wilson's first assistant, and was the first dorm established on site. It opened in 1970 originally as the Village managers office, but was later renovated into a dormitory.



Housing Office construction task manager Danny Lee puts the final touches on a bathroom in the newly-renovated PAD.

Attention TLD Badge Wearers: It's Time

The second quarter wear period for TLD badges ended June 30, 1994. Please return permanent (black with white insert) badges to their proper racks and return temporary (red with white insert) badges and cards to one of the following distribution stations:

- User's Office
- Industrial Center Building

- CDF Control Room
- Accelerator Main Control Room
- DØ Main Control Room
- Wilson Hall Atrium (cylinders)
- Warehouse #2
- Site 52, Security
- EAD Operations Center
- Site 50, T&M
- Site 38, FESS/ES&H

Late badges should be mailed to MS 119 or taken to the ES&H Section, WH7E. Do not place second quarter badges on the new third quarter racks as this will delay processing for another three months. If you have any questions, please contact SHEILA COLLINS at x3642.—*Sheila Collins*

Watch Your Waste

NEWS FROM THE WASTE MINIMIZATION SUBCOMMITTEE

DO YOU KNOW YOUR 3R'S?

In response to DOE and EPA orders, as well as to help our environment, the Waste Minimization Subcommittee is coordinating the effort to have all employees learn the 3R's. Here at Fermilab they stand for reduce, re-use and recycle. The success of Fermilab's waste minimization program depends on your cooperation. Some ways you can help are listed below. If you have ideas for reducing waste, contact your waste minimization representative.

REDUCE

Don't buy more than you need. You never save money by throwing excess in the garbage • Buy recycled when possible • Use china and silver when eating in the cafeteria • Buy a Fermilab cup (available in the cafeteria) for your coffee and get a deal on refills too!

RE-USE

Re-use packing material, like boxes and Styrofoam • Re-label then re-use manila folders • Use the chemical inventory database when all you need is a little paint or a little cleaner. Put your excess chemicals into the product exchange database so others can use them. (Call AUDREY HOPPER, at x4438, for details.)

RECYCLE

Many items can now be recycled. These include: white paper, newspaper, computer paper, junk mail (which includes magazines, catalogs, envelopes and all non-white paper products), cardboard, glass, aluminum cans, plastic beverage rings and toner cartridges. We are working on a collection area for wood, so if you have some wood please hold onto it until we can coordinate a pick up. Also, recycling of polystyrene is in the works. Watch for more details here.

Pick up areas now exist in the following locations:

- Wilson Hall Ground Floor
- Accelerator Division High Bay
- Technical Support
- Receiving
- Feynman Computer Center

Unfortunately, some pick up areas cannot accept all recyclable products at this time. However, we will expand the number of recyclable items at each location as demand requires and add other pick-up locations as the need arises. We need your input to help us determine the demand. Also, please help us monitor these areas to keep them clean and keep the recyclables separate.

Depending on where you work, you may have local containers for the collection of recyclables, which are then taken to a central collection area. If you have local collection points, employees can help by emptying full containers when passing by the collection area, and by carefully segregating recyclables. Careful segregation assures that we receive the highest price for our materials and also allows us to recycle materials that have a marginal return (junk mail). Careless mixing of recyclable materials is very detrimental to the program. The Waste Minimization Subcommittee is working on getting recycling containers into stock. Also, we are seeking volunteers to "adopt a box" to assist the Waste Minimization Subcommittee in keeping the central areas clean and the recyclables separated.

If you need help organizing collection in your area or have questions or suggestions, please forward them to your Waste Minimization Representative or contact KEVIN MOSS, x2248 or KAY WEBER, x2279. We will try to answer questions and provide updates in future issues of *FermiNews*. Remember, the success of Fermilab's waste minimization program depends on your cooperation!

—Kay Weber and Kevin Moss

REMEMBER YOUR RIGHTS

The Laboratory has been reminded by Secretary of Energy HAZEL R. O'LEARY that all Department of Energy contractors and federal employees have the right to access their personnel, medical and ES&H records. Fermilab policy has always provided for employ-

ees to view such records. As a reminder, personnel records can be viewed by contacting the Records Office, WH15SE, x3417, MS 124. Medical files can be viewed by contacting the Medical Office, WH1W, x3232, MS 204 and ES&H records can be seen by

contacting the ES&H Section Office, WH7E, x3644, MS 119.

If you have difficulties with these arrangements, contact CHUCK MAROFSKE, WH15W, x3396.

THE STORY HEARD AROUND THE WORLD



News of Fermilab's announcement of evidence for top quark production literally became a story heard around the world. Articles and broadcasts detailing the 20-year search and announcing the new evidence were seen not only in the United States, but also Canada, China, France, Germany, Italy, Japan, Korea, Spain, Taiwan, the Netherlands and the United Kingdom.

Through newspapers, magazines, various other publications, television programs and radio broadcasts, it is estimated that 55 to 60 million people heard the news.

In the United States, public interest in top reached not only the surrounding communities, but almost every state in the nation. Magazines and newspapers in thirty-five states (shaded above), including Alaska, either carried a news story about Fermilab's announcement

or an editorial concerning the work. Major newspapers, such as the *New York Times*, the *Washington Post* and the *Chicago Tribune* carried lead stories, as did news magazines such as *Time* and *Newsweek*. The story was also carried by the Associated Press.

In addition to the media coverage, the electronic information highway showed its worth as a communication tool. The day after the top quark press conference, the Fermilab Home Page on the World-Wide-Web network received 10 times as many inquiries than were previously received on average since the Home Page was established. (The Home Page contained information on the press conference, full text of the CDF preprint as well as background information on the search for the top quark.) On April 27, the World Wide Web received nearly 12,000 inquiries and on April 26, the day of the conference, roughly 9,000 inquiries were

made. The average daily access up to the day of the conference was approximately 1,200.

Broadcast coverage was heightened by a video news release produced by Visual Media Services and sent to Medialink Distribution System in New York for satellite transmission. The seven minute program was written and edited by JIM SHULTZ (VMS) and was picked up by nearly 250 broadcast and cable stations throughout the country—pushing the total viewership for Fermilab's top story over 8,000,000.

A committee lead by JUDY JACKSON, BARBARA LACH, FRED ULLRICH and CINDY CREGO spearheaded the communications effort. "After this experience, no one will ever convince me that people aren't interested in high-energy physics," said Judy.

People Events

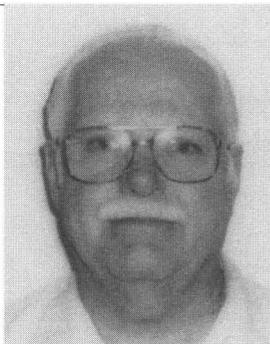
KERNS RETIRES

Long-time Fermilab employee QUENTIN KERNS retired June 30, 1994. Quentin was hired by Fermilab's first director, Robert Wilson in 1967, signing on with payroll number 32. Quentin's duties during his 27 years of service included work on RF systems and serving as head of the Research Services Department.

Quentin's plans for retirement include trips with his wife Faye to California, Florida, Ohio, Rock Island and Chicago to visit their six children and seven grandchildren.

"I've really enjoyed working here," said Quentin. "The people I was involved with were supportive team workers and they had respect for one another that allowed us to get the job done. This is an excellent working place. I didn't mind taking a tough problem when I knew that people would help. I liked working here so much, I'm surprised they paid me for it."

Quentin added he expects Fermilab to remain the leading high-energy physics laboratory in the world. "I wish everyone the greatest success."



MCKINSEY SAYS GOODBYE

After nearly 14 years of service to the Laboratory, ANITA MCKINSEY has retired. Anita began working here on October 15, 1979 in Technical Support, and she said good-bye to Fermilab on June 24, her last working day. Anita plans to move to Arkansas where she will be enjoying life, fishing and gardening.

"I'll miss all the people I worked with," said Anita. "But, I think I'm going on to a better situation," she added.

Congratulations!

To Fidel and MARIBEL HERRERA (CD) on the birth of their daughter Janell. Janell was born on May 16, 1994 at 5:14 p.m. at Mercy Center Hospital. She weighed seven pounds, 10 ounces and was 20.5 inches long. Janell is the Herrera's first baby. • To Vincie and BILL SOYARS (AD) on the birth of their daughter Caroline Rehme. Caroline was born at 12:43 a.m. on June 6, 1994 at Mercy Center Hospital. She was six pounds, two ounces and was 19.5 inches long. Caroline is the Soyars' first baby.



John Forster

ARTS SERIES PRESENTS

CHRISTINE LAVIN with Special Guest JOHN FORSTER

"Folk singing," says Christine Lavin, "is more of a neighborhood than a business." Lavin, one of the friendliest and funniest neighbors, is introducing the new kid on the block. Her sell-out appearance at Fermilab last May brought "The Four Bitchin' Babes" to the Fox River Valley. This year she brings John Forster, touted as the "new Tom Lehrer," to delight us. Their plaintive duo "Way Down Deep You're Shallow" has repeatedly swept the top spot on the Doctor Demento charts. This cynical pair of singer/songwriters visits Fermilab's Ramsey Auditorium on Saturday, July 16 at 8 p.m.

Lavin has been playing her often amusing and sometimes poignant songs since the early 70s. She now has six solo albums and has produced three collaborative albums.

John Forster's debut album *Entering Marion* lampoons everything from the reunification of Germany to fast food to the Japanese trade surplus with wry wit and exceptional musical style.

Tickets are \$12. For reservations, call xARTS.

The Nalwo cooperative Playgroup is looking for new participants. Children 18 months to five years old can join either the M-W-F or the T-Th group, meeting from 9 to 11:30 a.m. in the Children's Center. The cost is \$8 per month and the parent works once per week. You can join even if you are only here for a short time. Call TANUJA MISHRA at x2034 or 708-406-0430 for more information.

A sightseeing boat tour of Chicago will be held on Friday, July 8. A bus will leave at 9:30 a.m. from the Users' Center and will return by 3 p.m. The tour costs \$8.25 for adults and \$4.25 for children under 12 and lasts one-and-one half hours. There will then be about an hour for lunch. To register, call BRENDA KIRK at x3440 or SELITHA RAJA at 708-305-7769.

The next Nalwo Potluck will be July 15 at 5:30 p.m. at the Village barn. Bring a dish to share and some meat to grill, or \$3 to cover costs.—*Mady Newfield*

GIVE THE GIFT OF LIFE

The Heartland Blood Center is holding a blood drive Friday, July 15 from 9 a.m. until 2 p.m. in the Wilson Hall Ground Floor Center Conference Room. Please note new location.

Harper's Index

Price of a an authentic coroner's toetag key chain from the Los Angeles Coroner's Office gift shop: **\$5**

Percentage of all magazines on U.S. newsstands last year that went unsold: **57**

NEW CREF ACCOUNTS

Beginning July 1, two new equity funds, the Growth Account and the Equity Index Account, will be offered by CREF as investment options for URA/Fermilab employees in the Laboratory's basic pension plan and the voluntary pension plan.

The CREF Growth Account portfolio will contain stocks issued by companies of all sizes, emphasizing small and medium-sized firms in emerging areas of the economy. The Growth Account

may also invest in foreign stocks, and foreign stocks can range up to 40 percent of the account's portfolio.

The CREF Equity Index Account will invest its assets in stocks listed in the Russell 3000, a broadly-based index of U.S. common stocks.

For additional information about these accounts, please contact TIAA-CREF at 1-800-842-2733. Read the prospectus carefully before you invest.

GOLF SCRAMBLE COMING

The Fermilab Golf League announces a golf outing at Edgebrook Country Club in Sandwich, Il. on July 15.

Tee times begin at 12 noon. Green fees are \$20, plus optional cart \$11. The play format is a four person scramble (make your own team), plus optional games. There is a \$10 entry fee per

team and prizes for low-gross and low-net scores will be awarded.

Come see how much fun golf can be when you don't have to play your mistakes. For more information or to sign up, call ARNIE KNAUF at x3715 or DON ARNOLD at x2871.



Annual Run with the Director Draws 70 Athletes

Nearly seventy Fermilab employees took part in the Annual Run with the Director June 17, 1994. Each runner received a tee-shirt and a free breakfast in the Cafeteria for their efforts. The run, beginning at 7 a.m., covered the traditional 3.75 mile route around the Main Ring Road. Roger Dixon (RD), organizer of the event, said that he also offered to those runners who didn't finish, a coupon good for one free arthroscopic surgery at Merle's Muffler and Knee Cap Service. He had no takers.

USERS MEETING

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man of the HEPAP subpanel, who detailed the report.

Following discussion of the subpanel's report, the morning session continued with talks by JOHN O'FALLON, director of the Division of High-Energy Physics of DOE, on high-energy physics within DOE and a talk by WILLIAM CHINOWSKY of the National Science Foundation on high-energy physics within the NSF.

The afternoon session began with a discussion on the Main Injector by PATRICK COLESTOCK (AD) and a talk by GERALD JACKSON (AD) on new facilities beyond the Main Injector. The meeting concluded with talks by RICHARD HUGHES (CDF) on top physics at CDF, MEENAKSHI NARAIN (Physics) on top physics at DØ and a talk by CHRIS HILL (RD) on the future of top physics.

After the conclusion of Chris Hill's lecture, Bruce expressed his thanks to HEIDI SCHELLMAN (Northwestern University) and JOHN CUMALAT (University of Colorado) for their excellent work in organizing the talks and to the staff of the Users Office, PAT LAVAILLE and JUDIE BOOTH, for attending to the details of the meeting and arranging the social held Thursday evening. ■

CLASSIFIEDS

■ VEHICLES

1989 Pontiac Sunbird, 2 door, blue/silver, AM/FM/cassette, auto, AC, PS, PB, cruise, tilt steering, 38k miles, good cond., blue book price \$4,500. Call Gianfranco at x8403 or 708-653-2813.

1985 Pontiac Grand Am, 4 cyl., 5 spd., sun roof, AM/FM stereo, good transportation, \$1,500 o.b.o. Call x4663 or 708-466-1823.

1982 23 ft. Jamboree motorhome, bed over cab, sleeps 6, 34k miles, oven, stove, ref., tub/shower, excellent condition. Call Joel at x8444 or 708-406-9627.

■ MISCELLANEOUS

Aiwa CD stereo system, 3-CD changer, dual cassette, AM/FM, 3-way speakers, orig. \$500; twin-size bed, orig. \$170; computer desk, orig. \$70. All only 6-month old. Moving, must sell. Call Rong at x2406 or 708-393-0347.

2 yr. old twin waterbed w/bookcase headboard, \$100 o.b.o. Call Terry at x4572 or after work 815-453-2035.

Sears microwave oven, \$50; Toast-

master toaster broil oven, \$25, men's golf bag, \$5; 6' rubber boat w/oars, \$50; K2 snow skies w/Tyrolia bindings, never used, \$100; Tiffany-style glass light fixture, gold & green, \$40. Call Sandy at x4171.

Bunkbed & dresser set, dark wood, Sears Best, incld. 2 foam mattresses, can be set up in an "L" pattern, paid \$600 2 yrs. ago, asking \$279. Call Tony at x3525.

30" Kenmore gas stove, white, good cond., \$100; 7000 BTU window air conditioner, \$100. Call x4663 or 708-466-1823.

4 cemetery plots in Lincoln Memorial Cemetery, Route 30, Aurora, older section of cemetery, worth \$600-\$800 apiece, asking \$500 ea. Call Wendy at 708-897-4022 or 708-896-2566 or Jim at x4063.

■ REAL ESTATE

2 or 3 bdrm. apartment needed for one month for 6 persons coming from Italy starting July 16. Call Barbara Camanzi at x4482 or 5039 from 10 a.m. to 1 p.m. and from 2 p.m. to 6 p.m.

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The deadline for the Friday, July 15, 1994 issue is WED., JULY 6. Please send your article submissions or ideas to the Publications Office.