

FermiNews

The Newsletter of the Fermi National Accelerator Laboratory

KREBS CONFIRMS FERMILAB HAS VISION, CAPABILITY BEYOND NEXT 10 YEARS

By Donald Sena, Office of Public Affairs

A Department of Energy delegation, headed by Energy Research Director Martha Krebs, conducted an extensive on-site review of Fermilab on September 28, hearing detailed reports of the Laboratory's past accomplishments, current work, education efforts and future goals.

For at least the next ten years, Fermilab's planned research and direction will keep it at the "energy frontier of particle physics," said Deputy Director Ken Stanfield; however, efforts will not stop there. A vigorous planning process will keep the Laboratory among the world leaders of high-energy physics research beyond the next decade and the projected 2005 start-up of the Large Hadron Collider at CERN, according to Stanfield.

"I can see that...you [Fermilab employees] have a vision, that there is the capability beyond the turning-on of

the LHC..." said Krebs. "Now, clearly that vision has to be validated in some way by the larger community. But, it at least puts me in a position of defending this [Fermilab's future] inside DOE, with OMB [the Office of Management and Budget] and with Congress."

Other members of the delegation, which included DOE staff from the Fermi group, the Chicago Operations office and Washington, D.C., agreed with that assessment.

Fermilab review participants "have done a lot to establish that there is a future here beyond 10 years," said John O'Fallon, director of the High Energy Physics Division for DOE.

THE DIRECTOR'S VIEW

After welcoming participants in the Laboratory's Comitium, Fermilab Director John Peoples opened the day with an overview of the Laboratory's staff, visiting researchers, current



Steve Holmes, Main Injector project manager, talks with Martha Krebs, DOE Energy Research director, in the Main Injector tunnel.

experiments and educational programs, among other subjects. The director also discussed the shape of Fermilab's future.

"My fundamental assumption is that the U.S. wants to remain among the world leaders in particle physics," said Peoples.

Six other assumptions critical to Fermilab's direction support that fundamental premise, according to the director:

- Collisions created at Fermilab's accelerator will continue to provide the most decisive tests of theories about elementary particles.
- Large accelerators of the future will require international cost sharing for their construction and operation, forcing closer collaboration among the world's laboratories.

FermiNews



Friday, October 20, 1995 • Volume 18, Number 18

KTeV Ready for Open House.....	page four
Italians Host Concert.....	page four
October is Quality Month	page nine

Continued to page 2

KREBS CONFIRMS

continued from page 1

- Proton-antiproton collisions will continue to create interesting opportunities for significant, direct discoveries.
- Particle physics without accelerators will play an increasingly important role in the continued search for the fundamental properties of matter.
- Fermilab will strengthen research to expand our understanding of accelerator technology and explore the future of high-energy accelerators.
- Advances in particle detectors and high-performance computing are essential to further the understanding of fundamental properties of matter.

Peoples then outlined some near- and long-term directions for the nation's premier high-energy physics laboratory in the latter part of the 20th century and early 21st century.

In the Spring of 1996, the Laboratory will conclude a very successful four-year run of proton-antiproton collisions and begin to "exploit the fixed target capabilities of the Tevatron," according to Peoples. One of those experiments will include the study of CP violation in rare K decays.

Also, Fermilab is focusing on experiments for the years 1999–2005 to keep it at the research frontier of particle physics. The Laboratory will accomplish this by greatly increasing the luminosity of the Tevatron, primarily by the addition of the Main Injector and the creation of a proposed recycler ring to cool and accumulate unused antiprotons. The Laboratory will strive to complete upgrades of the CDF and DZero detectors to keep up with the enhanced luminosity of the Tevatron. Peoples also asserted that it is impor-

tant to explore an energy scale beyond the Tevatron by working with CERN on LHC construction.

And, finally, Fermilab must look beyond 2005 to find ways to build and operate exciting new technologies and foster strong international collaborations to move particle physics forward.

"The challenge for Fermilab is to develop an affordable plan for the ten years after the year 2005. This is the time to look down many roads. In a year, we will pick the right road," said Peoples.

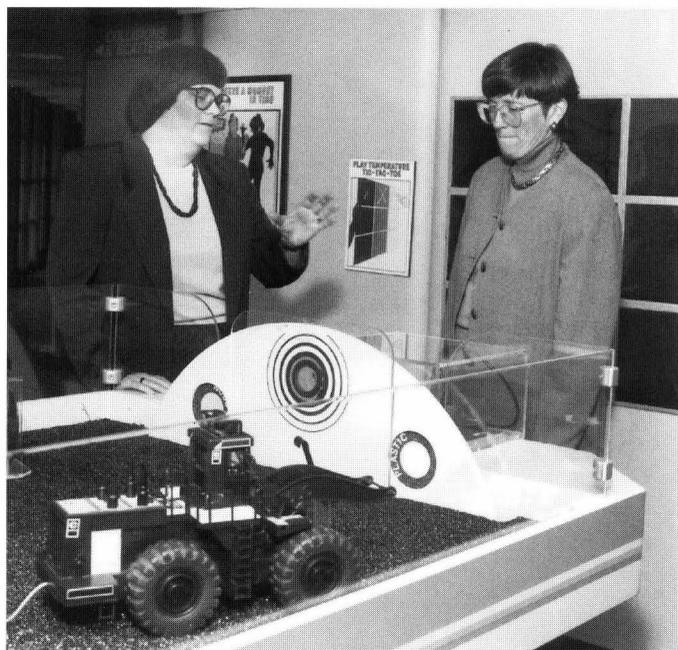
MANAGING COSTS

Following People's presentation, Krebs had lunch with some of Fermilab's younger scientists in a meeting room dubbed the "Snake Pit."

After lunch, Bruce Chrisman, Fermilab's associate director for administration, detailed management practices and various ways the Laboratory has worked to cut costs. Some of these cost-cutting measures include "outsourcing" certain support services, such as janitorial staff and security in the Village; buying off-the-shelf software instead of customizing; and trimming staff levels.

Also, the Laboratory has studied new ways to ease the burden of various federal procurement and oversight regulations, allowing more efficient work at lower costs.

For example, "It will allow us to shorten up that big, thick document to build a



Marge Bardeen, left, manager of Fermilab's Education Office, talks with Martha Krebs at the Leon Lederman Science Education Center.

garage to something that is more reasonable...., and that will certainly have some savings," Chrisman said.

He added that this process is coming along, but it will take time to undo many years of working under the old system.

Krebs then pledged she would do everything possible on her end to speed along this less-intrusive process.

LABORATORY TOUR

Krebs then took a driving and walking tour of Fermilab, visiting some of the technological and environmental workings. Driving counterclockwise along Main Injector construction, Steve Holmes, Fermilab Main Injector project manager, pointed out various areas of interest on the grounds. DOE Main Injector project manager Ron Lutha joined the tour at the MI-60 building, as Krebs viewed completed magnets waiting for installation into the Main Injector.

The tour then wound down a narrow labyrinth of off-white walls, floors and

continued on page 3

stairs, leading to the tunnel, as Holmes explained some of the new accelerator's expected benefits. Later, the group "four-wheeled" to the wetlands near the center of the Main Injector. The next stop was the tall-grass prairie, standing over six-feet high.

"You certainly can get lost in here, can't you?" joked Krebs.

EDUCATION AND DIVERSITY

Maintaining the busy pace, the review picked up again at the Leon Lederman Science Education Center. Here, Marge Bardeen, head of the Education Office, joined Krebs, Peoples and Chrisman for a lively discussion of the extensive educational efforts at Fermilab and funding to keep active such programs, particularly pre-college education.

"If you care about...who will be the future performers in science and engineering in this country, and if you care about who is going to be making decisions about funding science and engineering in the future..., then you have to worry about pre-college science and math education," said Krebs.

Peoples also stressed that scientists and engineers who give their time for education gain positive results both for Fermilab and for the surrounding community. He stated that nearly half of the scientists and engineers at the Laboratory volunteer some time to education.

"We are rather unique in having a [education] program of this scale, and it is very heavily leveraged by volunteerism. We would really be disappointed if it had to go away" because of a lack of funding, said the director.

Krebs agreed with the importance of the educational efforts at Fermilab and other national laboratories, and said she believes the DOE will try to main-

tain as much of the educational activities as it can.

"I certainly think the labs are the heart of what the Department [of Energy] has to bring to bear in education," said Krebs.

After the group reconvened in the Comitium, Dianne Engram, manager of Fermilab's Equal Opportunity Office, described the Laboratory's efforts to strengthen its diversity. Specifically, she detailed the Target program for high schools, which includes apprenticeships for students. This past summer, which marked the 16th year of its operation, the program served 24 minority students at Fermilab. Also, the intern program for undergraduate college students marked its 25th year with summer internships in science and technology for 19 minority students from 14 universities.

Fermilab Assistant Director Larry Coulson followed Engram with a brief presentation of the Environment, Safety and Health Section and addressed the implementation of the new "Necessary and Sufficient" standards. The N&S standards will go through some refinements at the Laboratory to better serve the goal of the program, including having more "foundation-up" input. The changes should bring stability to the requirements and allow the general laboratory worker to have a greater impact on the cost, safety and efficiency of work at Fermilab, according to Coulson.

Associate Director Ray Stefanski then gave a brief overview of Fermilab's infrastructure, stressing Laboratory concerns about structural problems in Wilson Hall.

NUMI AT FERMILAB

Fermilab physicist Gina Rameika outlined a project on Fermilab's horizon:

Neutrinos at the Main Injector or NuMI. This project will test the properties of neutrinos, in particular whether they have mass, allowing us to understand more about the universe and its composition. To assay the neutrinos, two new detectors will capitalize on the high-energy particle beam generated by the Main Injector, scheduled for completion in 1999. One of the detectors will be located on Fermilab's campus, and the other is planned for a mine in the northern Minnesota town of Soudan. Configuration will allow both long- and short-baseline experiments, and greatly expand the data and knowledge of neutrinos. The Department of Energy's High Energy Physics Advisory Panel recommended in late September that the Department support the NuMI experiment at Fermilab.

WRAPPING UP

Stanfield concluded the presentations with a summation of Fermilab's future, detailing many questions that can and should be addressed at Fermilab, including:

- "Why do things have mass? Why is the top quark so heavy?"
- "Why is there more matter than antimatter in the universe?"
- "What makes up the 90% of matter in the universe that we know exists but is now invisible to us?"
- "What lies beyond the Standard Model of Elementary Particles?"

These are all questions that will expand our understanding of the world we live in and lead us to new and exciting places and discoveries, according to Stanfield. At the end of the on-site review, many participants agreed Fermilab has much to contribute to

continued to page 10

KTeV READY FOR OPEN HOUSE

By Leila Belkora, Office of Public Affairs

Construction at the KTeV fixed target experiment has progressed to the point that physicists are occupying the new experimental hall.

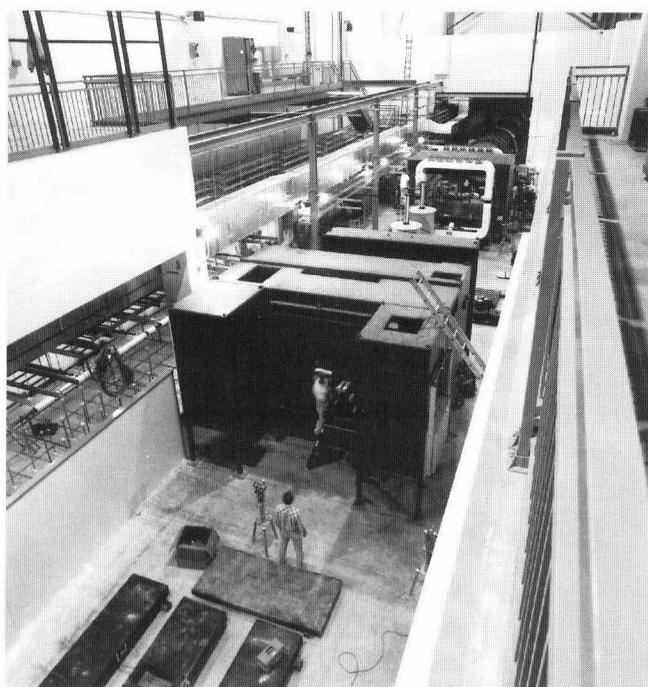
"We're in pretty good shape," says Greg Bock (RD), project head. He runs off a long list of components that are in hand or nearly finished, including the new spectrometer magnet to measure particle momentum, the cesium iodide crystals and photomultiplier tubes for the calorimeter, drift chambers, veto counters and the transition radiation detectors and muon counters that are part of the system to identify particles emerging from the kaon decay events.

Bock and other members of the KTeV project look forward to putting the

new facilities on display at their Open House scheduled for 3-5:30 p.m. on Friday, October 20. The KTeV experimental hall is about 1/4 mile north of the Feynman Computing Center, on C Road West. The KTeV collaboration cordially invites Fermilab employees and users to attend.

The project to study K-meson decays at the Tevatron (KTeV) grew out of Fermilab experiments conducted in the 1980s. Experimenters are searching for evidence of the rare phenomenon of CP violation in which the symmetry between matter and antimatter is not completely preserved in particle interactions. The neutral kaon system to be studied with KTeV is the "dangling thread" with which we hope to unravel the mystery of CP violation in the universe as a whole; a better understanding of CP violation should help explain the preponderance of matter over antimatter in the universe. (See a related article in the December 2, 1994 *FermiNews* issue.)

The KTeV team is currently installing electronics in the counting room where data is put onto tape for analysis, and is waiting for more custom-built electronics material to be shipped from on-site labs and collaborating institutions. Integrating the whole system and smoothing out the kinks in its operation looms as the next big job. If all goes well, physicists should start to see results when fixed-target work resumes at Fermilab in 1996.



Calorimeter house (foreground) and analysis magnet (background) in the new KTeV experimental hall.

Italians Host Concert

The Cultural Association of the Italians at Fermilab will sponsor their debut cultural event—an original production featuring music by W.A. Mozart, L. Van Beethoven, F. Schubert and R. Schumann performed by Marco Fornaciari, violin, and Antonella Bellettini, piano. Providing the backdrop for the music will be painter Giuliano Ottaviani, who will paint images inspired by the Italian sceneries and by the chamber music being played by the violin-piano duo.

Marco Fornaciari has played in the most prestigious world concert halls, including La Scala, Mozarteum, St. Petersburg Academy and the Sidney Opera House. His recordings include the entire Paganini's compositions for violin and guitar.

Antonella Bellettini is a professional piano accompanist. She has toured the U.S., Germany, Japan, Mexico and many other countries as a member of various chamber music groups. She toured the U.S. and Europe with M. Jorge Risi, famous Italo-Uruguayan violinist.

Giuliano Ottaviani is a well-known Italian artist. He has exhibited in Italy, Europe and Australia. He is the recipient of ten International art prizes, including the 1984 gold medal from the Academy of Art, Science and Literature, Paris, France.

The performance is open to the public and will be held on Saturday, November 4, 1995 at 8:00 p.m. in Ramsey Auditorium. For further information, contact Luciana Crovato at x2986.

The Cultural Association of the Italians at Fermilab was formed to preserve and spread the Italian culture between the Italians and the local U.S. community.

FLU SHOTS

Flu, tetanus and pneumonia immunizations will be offered by the Visiting Nurses' Association on November 1 from 11:00 a.m. - 1:00 p.m. in the Ground Floor Conference Room. Please call the Medical Office at x3232 to schedule an appointment. Flu shots are \$10, tetanus boosters are \$5 and pneumonia shots are \$20. Cash or checks payable to VNA are accepted.

WELLNESS WORKS

The following wellness materials are available for loan from the Medical Office, WH1W:

"Life, It's What We're Fighting For," a six-minute video from the American Heart Association, Kids & Transplants.

A 10-minute video titled "Every Man Should Know about his Prostate."

The American Lung Association video titled "In Control—Freedom from Smoking."

Overhead transparencies and a video recording of the Brown Bag Seminar "Legal Issues" held on March 23, conducted by Greg Wojceichowski.

Nalrec News

Don't miss Octoberfest tonight, October 20, from 5:15 - 9:15 p.m. at Kuhn Barn. The festivities feature DJ, Wizards of the Mike, and polka lessons from Maddy and Joe. Brats with sauerkraut and German potato salad will be served for \$2. Beverages of the world will also be available to sample. For more information, contact your Nalrec representative.

Softball Back to Back Champs



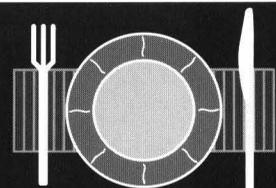
An exciting season of softball was played this summer in the Fermilab Co-ed Softball League. Six teams competed this year for the league title. In the championship game for the double-elimination tournament, the Brew Crew beat the Beer Smugglers to take their second consecutive summer league title. The second place Beer Smugglers were the Cinderella team of the tournament, improving on last season's last place finish. The Brew Crew, captained by Keith Hronek, finished with an 11-2 record, while the Beer Smugglers, captained by Larry Thompson, finished at 6-10. Rounding out the rest of the league were the Disastros 8-6, Wild Band 7-6, Unified Fielders 4-7 and the Knights 4-9. Members of the championship team are: (row 1, l. to r.) Dale Knapp, Keith Hronek, Jori Nelson, (row 2, l. to r.) Tony Busch, Carolyn Busch, Ray Fonseca, Susan Swanson, Matt Ferguson, (row 3, l. to r.) Earl Shaffer, Ron Ray, Kevin Orcutt, Ryan Hagler. Not pictured are Brian Grigsby, Amanda Gierhardt and Randy Zifko.

CONGRATULATIONS!

To Jennifer Kee (FESS) on the birth of her daughter Aysia Coryn Bugg. Aysia was born October 2, 1995 at Central DuPage Hospital, Winfield, Illinois. She weighed seven pounds, 13 ounces and was 20 inches long. Aysia was welcomed home by big brother Armani, 18 months.

Chez Léon Menu

Lunch (Wed) \$8.00 • Dinner (Thurs) \$20.00
Reservations: x4512



Wednesday, October 25 • Paella, watercress and tomato salad, Italian rice pudding

Thursday, October 26 • clam chowder, leg of lamb w/red wine sauce, vegetable of the season, apple walnut cake w/calvados cream Anglais

FERMILAB ARTS SERIES PRESENTS

SERGIO & ODAIR ASSAD
SATURDAY, NOVEMBER 18

"The most sensational of duo-guitarists...a marvel" states *Le Figaro* of Paris.

Experience the guitar mastery of the Assads when they visit Fermilab's Ramsey Auditorium on Saturday, November 18, 1995 at 8 p.m. Recognized across the globe for their technical virtuosity, their uncanny precision of ensemble and their musical and stylist sensitivity, Sergio and Odair Assad are hailed by many as the foremost duo guitar team in the world. The Assads have been credited with doublehandedly reviving Brazilian music for the instrument. Gnattali, Nobre, Kreiger and Mignone have dedicated pieces to them, as have the Russian Nikita Koshkin, the Argentinean Astor Piazzolla and Roland Dyens.

IN MEMORIAM

Richard J. Hunckler, Sr. passed away at his home in Joliet on August 20, 1995. He was 63 years old.

Richard worked in the RD/Site Operations Department as an optical toolist. He began his career at the Fermilab in December 1972. He has been on long-term disability leave since 1988.

Richard is survived by his wife, Mary Hunckler, four sons, Richard J. Hunckler, Jr., D.M.D. of Aurora, Stephen P. Hunckler of Joliet, Mark A. Hunckler of Naperville, and James E. Hunckler of Joliet. Memorials may be made in Richard's memory to the Joliet Area Community Hospice.

Born in Sao Paulo, Brazil, the brothers moved to Rio de Janeiro while they were still teenagers to study with Monina Tavora, a disciple of Andres Segovia. The Assads were first introduced to North American audiences in 1969 under the "Youth for Understanding" program. Since then they have performed in nearly every major city in the United States and Canada, in addition to their appearances through Europe, Australia, the Far East and their native Brazil.

Their repertoire is varied—ranging from Baroque to Classical to contemporary Brazilian selections. Their latest

release on Nonesuch Records features the music of Rameau, Scarlatti, Couperin and Bach, and has been hailed as "sublime" and "unbelievably good" by *Guitar Player Magazine*. States Terry Teachout of the *New York Daily News* "This is the most beautiful guitar album I've heard in years—maybe ever."

Admission to SERGIO & ODAIR ASSAD is \$15. For further information or telephone reservations, call 708-840-ARTS weekdays between 9 a.m. and 4 p.m. At other times an answering machine will give you information and a means of placing ticket orders.

Summer Volleyball Champions



The 1995 summer volleyball season has come to an end. It was a close season and a new champion now reigns. The Smokin' Oldies, led by Captain Denise Bumbar, pulled out a winning season with a record of 27-6. In a very tight second place were the Mighty Sand Fleas, led by Captain Ryan Hagler, also with a 27-6 record. In tournament play, Tammy Hawke's team edged out Angie Velasquez's Beer Smugglers for a first place win. It was a competitive season. Thanks to all the captains and their teams for all their help and cooperation. The champion Smokin' Oldies are: (row 1, l. to r.) Carolyn Busch, Jim Kalina and Denise Dumbar, (row 2, l. to r.) Steve Carrigan, Eric Mieland, Mike Frett and Don Rapovich. Not pictured are Jeff Bumbar and Lisa Jenkins. —Maxine Snee



IT'S HARVEST TIME

Scenes from Fermilab's 1995 prairie seed harvest on Saturday, October 7. The next harvest is Saturday, October 28. Volunteers are welcome. Harvest will take place from 10:00 a.m. until 2:00 p.m.



Above: Dr. Bob Betz, Fermilab prairie consultant, with Sandor Feher.

Right: Science teacher Maryon Tilley with some of her students from Morton West High School in Berwyn.



Top: Ruthanne Baird of Elmhurst surrounded by the native grasslands.

Above: William Lehman, left, and Dan Fridman, both from Chicago, display their day's bounty.

SNACK ATTACK

"It's four o'clock but my stomach thinks it's supper time."

"I need to get away from my desk for a while."

"I don't have time for lunch."

"I want something sweet to go with my morning coffee."

Sound familiar?

These are reasons why you might make a trip to the nearest vending machine. Unfortunately, once you arrive, you may find that your snack attack could contribute to a heart attack.

That's because most vending snack items are high in fat and sodium. Some items may also be high in cholesterol or saturated fat. At the very least, many items provide nothing but a lot of extra calories. And all of these factors can lead to high blood pressure, which can raise your risk for heart disease.

WHAT'S A SNACKER TO DO?

You can still enjoy an occasional bag of chips or candy bar. But if you use the vending machine more than a couple of times a week, make most of your snacking choices heart-healthy.

Look for some of the lower-fat products like:

- Fresh fruit
- Fruit juices
- Vegetables and low-fat dip
- Skim milk
- Low-fat or nonfat yogurt
- Sandwiches made with low-fat ingredients
- Animal crackers

OCTOBER IS ENERGY AWARENESS MONTH

This October, Fermilab participates in DOE's 16th annual observance of the Energy Awareness Month adopting the theme—"*Energy Fuels Our Future.*" The theme is rich in the inferences one could draw from it. It seemingly ties future needs with current usage, while implying the urgent need for development and use of sustainable energy forms.

At Fermilab, energy awareness is ingrained in the daily activities of the Lab and its employees, to the extent that it has become a part of Fermilab culture. Energy consumption reductions targeted by the Energy Policy Act of 1992 and by Executive Order 12902 are being met and exceeded. The Department of Energy has recognized this energy awareness aspect of Fermilab culture in numerous ways in the past, e.g. by designating the Feynman Computing Center as one of the 52 nationwide federal showcase facilities, by awarding the Lab for its outstanding energy management activities, by using the Fermilab Employee Energy Conservation Awards Program (FEECAP) as a model DOE-wide quality improvement initiative, and above all by its strong support of the Lab's In-House Energy Management (IHEM) Program with funds to study and implement energy efficiency improvement activities.

Energy management programs provide a verifiable return on investment of taxpayer dollars, however, Congress is debating on reductions to the energy management budgets of several federal agencies. Irrespective of the outcome of Congress's debate, we should continue to do our part—pursue creative schemes to finance energy efficiency construction projects and pursue ways to further optimize our energy usage. In the past, employee suggestions have shown that there is a wealth of untapped potential for energy efficiency improvements, and that this potential is usually recognized by employees in and around their work sphere. So send in your suggestions to FEECAP and be a part of this crusade.—*Venkat Kumar*

NEW IN THE STOCKROOM

The following items can now be obtained from the stockroom:

1218-1200 washers, lock AISI 18-8 stainless steel, Foremost Fastener Co., P/N 2-1278B-A2, M-2

1218-1240 washers, lock AISI 18-8 stainless steel, Foremost Fastener Co., P/N 6-127B-A2, M-6

- Gingersnaps
- Fig bars
- Dried fruit (raisins, dried apricots, dried apples)
- Lower-fat popcorn
- Graham crackers
- Ready-to-eat cereal

Round out your snacking with other heart-healthy foods. Include lots of whole-grain breads and cereals, fresh fruits and vegetables and moderate amounts of lean meats and low-fat dairy products in your diet every day.—
American Heart Association

continued to page 10

A Proclamation

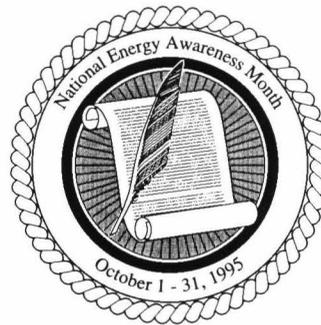
"Energy Fuels Our Future!"



- Whereas,** Fermilab has been a leader in the development of innovative methods of energy conservation, particularly in the use of superconductivity to reduce the use of electrical energy; and
- Whereas,** the wise use of energy and energy-producing resources are the foundations of future economic prosperity for our society and because of recently enhanced concerns about the global impact of energy and waste; and
- Whereas,** the proper use of coal, water, natural gas, petroleum products, and alternative energy sources comprises a highly complex set of issues that are of paramount importance to every citizen; and
- Whereas,** consensus regarding proper use is not easily reached; however all involved agree that using less energy, or practicing energy conservation, is most desirable and beneficial; and
- Whereas,** institutions, government, business, and private citizens alike must cooperate to achieve meaningful savings in both energy use and dollars to ameliorate the burden of rising costs of energy; and
- Whereas,** such cooperative efforts are beginning to have an impact on our energy-use habits and to demonstrate reduced energy consumption;
- Therefore,** I, John Peoples Jr., Director of Fermi National Accelerator Laboratory, proclaim **October, 1995** as **Energy Awareness Month** at Fermilab, in conjunction with the national observance, because it is important for all citizens to be aware of the necessity of conserving energy for our mutual benefit.

**In Witness Whereof, I have hereunto set my hand.
Done at Fermi National Accelerator Laboratory this
Fourth day of October, in the Year of Our Lord, one
thousand nine hundred and ninety five.**


Director



CLASSIFIEDS

■ VEHICLES

1989 Mercury Tracer, 4 cyl., automatic, needs some work. Make an offer. Call Christianne at x8807.

■ MISCELLANEOUS

For sale: 4 football tickets, Northwestern vs. Illinois at Champaign, Saturday, October 28. Good seats. Call Jim at x4293 or 708-416-0548.

Garage sale; 9" Delta table saw, hand tools, jig saw, router, sander,

miscellaneous household items, antique table sewing machine, dresser, TV cart, and many more items. Call Lillian at x5739 or 815-498-9402.

■ WANTED

Transportation needed: One day a week for a person with a flexible work schedule. From Naperville (Washington Street and 75th Street) to the Industrial Center Building. Call George at x2899 or 708-416-3875.

NEW IN THE STOCKROOM

continued from page 8

1218-1280 washers, lock AISI 18-8 stainless steel, Foremost Fastener Co., P/N 10-127B-A2, M-10

1252-0555 caliper, digital electronic, regular measurement, English to Metric mitutoyo P/N 500-133 or equal 6 inch range (150 mm) with case

1305-0510 book, computer operation, "Mastering Object Oriented Design in C++" by Horstmann, P/N0471594849

1305-0520 book, computer operations, "Scientific Engineering in C++" by Borton and Nackman, P/N0201533936

1780-0585 tape cartridge, data, for media recognition system, DDS-90, Maxell, P/N HS-490s, size 4mm x 90 meters long

1930-0825 adhesive, cyanoacrylate, for bonding all plastics, Plasti-zap, P/N PT-19, 1/3 oz. bottle

2560-0860 film, camera, color, Polaroid Spectra System Instant Color Film, twin pack, P/N 610020, 20 prints per twin pack, 10 x 10 cm.

2650-4050 ring, empty/full, for use on compressed gas cylinder, full (green) on one side/ empty (red) on the other side w/ Fermilab 708-840-3808

FERMINES MOVES

Beginning with the next issue, the Office of Public Affairs will take responsibility for the production of *FermiNews*.

Please send all article submissions to the Office of Public Affairs, WH1E, MS 206, x3351, or e-mail Pam_Noyes@qmgate.fnal.gov.

KREBS CONFIRMS

continued from page 3

the future of high-energy physics and science in general.

Just before the group broke for dinner, O'Fallon told Krebs that on-site review participants from Fermilab "have made a major step forward, if not outright convincing you that there is a definite future here beyond LHC turn-on." ■

FermiNews

*The Newsletter of the
Fermi National Accelerator Laboratory*



FermiNews is published by the Fermilab Publications Office

MS 107, P.O. Box 500 Batavia, IL 60510 • 708-840-3278 • TECHPUBS@FNAL

Fermilab is operated by Universities Research Association, Inc.

under contract with the U.S. Department of Energy

The deadline for the
Friday, November 3, 1995
issue is Tuesday, October 24.

Please send your article
submissions or ideas to
the Public Affairs Office.

