Work Continues on Energy Saver

E,F SECTOR INSTALLATION COMPLETE

...the Saver must take first priority. This establishes the superconducting ring of magnets and is the key to the future of the Laboratory . . . L. Lederman

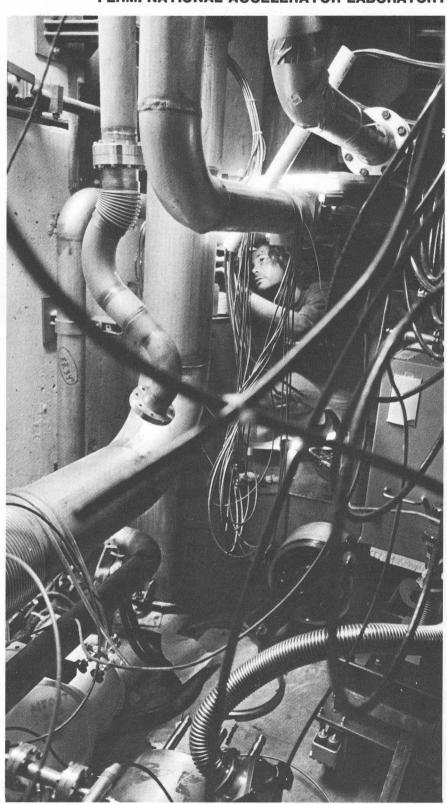
by Thornton Murphy

At 5:45 p.m. Friday, November 19, Sectors E and F of the Energy Saver, one-third of the ring, switched from "installation mode" to "operation mode." The event which so clearly marked this transition was the changing of the locks on all the doors leading to E and F Sectors. Since June, several hundred people have held keys to these doors to permit rapid entry to the large installation team. On November 19, the locks were changed back to safety system locks. At the same time. responsibility for coordination of activities in this part of the ring passed from the Accelerator Systems Department to the Accelerator Operations Group.

This event was met with jubilation by the couple hundred people who have labored under pressure since June to finish installation. Now the Accelerator Operations Group, the Cryogenic Systems Group, the Central Helium Liquefier, and the Electrical Support and Controls Group are in the "hot seat," as they work around the clock to complete safety checkouts and cool the two sectors to liquid helium temperature. They are scrambling to meet a late December goal to power E and F sectors to full current. On the following pages are photographs by the Fermilab Photo Unit documyriad installation menting tasks which have so happily concluded in one-third of the ring.

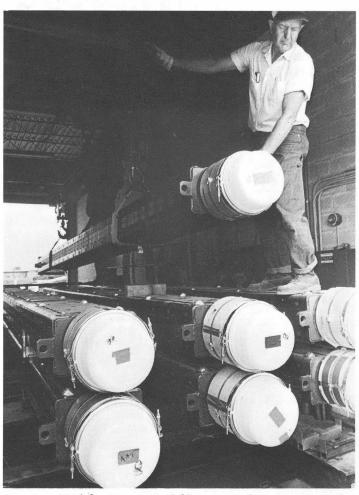
Fermi News

December 2, 1982 FERMI NATIONAL ACCELERATOR LABORATORY

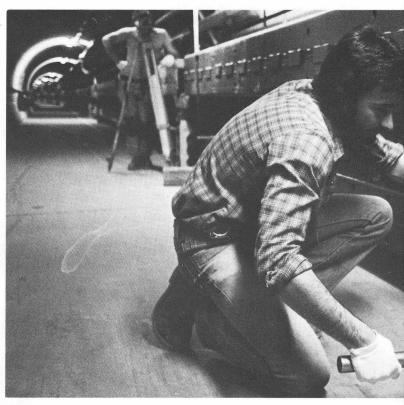


Dale Durham fits pipes for the Energy Saver in the Main-Ring tunnel. This photograph shows the often cramped conditions that are typical of many jobs performed in the close confines of the tunnel.

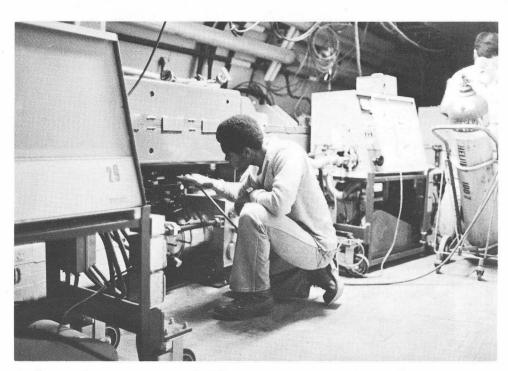
SCORES SPEND LABORIOUS MONTHS IN MAIN-R



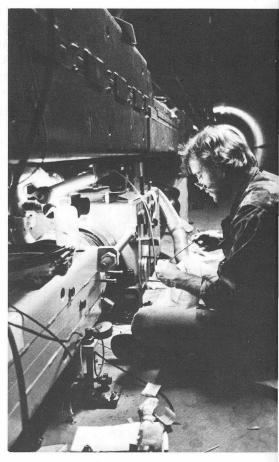
Harry Krider, a Belding employee, stacks magnets at DO prior to being lowered into the tunnel for installation.



Gary Capola (kneeling) and Terry Guthke use s Doubler magnet to within a few thousandths of an

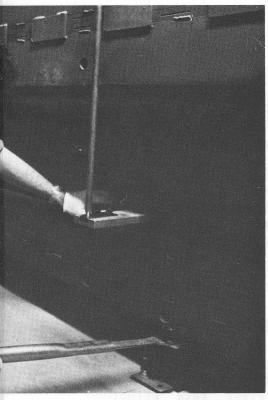


Rodney Shores sprays helium on a magnet interface to check for leaks.

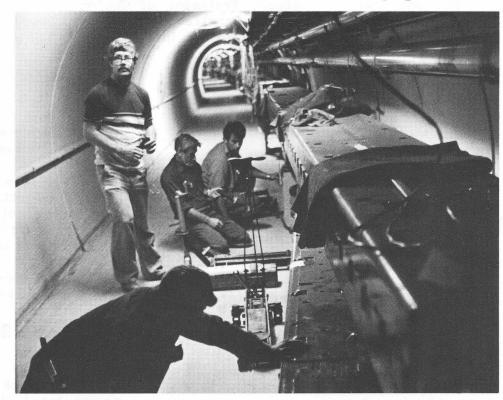


Russ Harrison connects cryoger between magnets.

ING TUNNEL TO BUILD ENERGY SAVER/DOUBLER



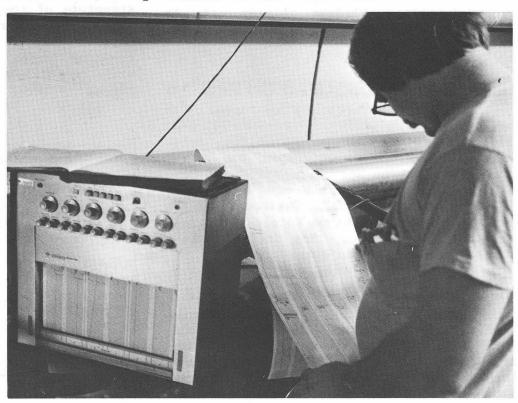
surveying techniques to align a inch.



Merrill Albertus (standing), Ken Meissner (foreground), Rine DeKing, and Gene Witt install a superconducting dipole magnet under a Main-Ring magnet by gently sliding it into place.

"The Saver is our key to a solid future. It is essential for both scientific and energy saving reasons...1983 is the light at the end of our tunnel!"

"People with skill and expertise in diverse groups will be asked to take on Saverprojects related and to carry these out with the same love and dedication as they put on their own specialties. This is because the future of Fermilab hinges on this plan. If survive the dangers of schizophrenia and carry it off we will be the pre-eminent laboratory in the world."



Using a chart recorder, Roger Thomas reads output from six leak detectors spaced 100 feet apart.



TALK TO ASSESS ENVIRONMENT'S EFFECT ON LIFE SPAN

Dr. Joan Smith-Sonneborn, Professor of Zoology at the University of Wyoming, will deliver a Sigma Xi lecture at Fermilab on Thursday, December 9, at 8 p.m. in Curia II entitled "Environmental Modification of Life-Span Duration and Genetic Damage." Professor

Smith-Sonneborn's major research interest is centered on cellular mechanisms. She has been active on the committees of many organizations including the Gerontological Society of America and the Food and Drug Administration Science Advisory Board. Her lecture will be directed to



Smith-Sonneborn

a general audience and is open to the public.

CHARITY PLEDGES DUE TOMORROW

The deadline is approaching for the Fermilab Annual Charity Fund Pledge forms. Using the payroll-deduction plan, employees may make donations, totaling not less than \$12 annually, to as many as three charitable organizations. Deductions will begin January 1, 1983, and accumulated amounts will be sent to the charities of your choice at the end of the year.

Make sure your charities are on the I.R.S. approved list if you want to claim a tax deduction. Pledges already made in 1982 will be discontinued at the end of the year unless renewed.

CELEBRATE CHRISTMAS ON DEC. 15

A Christmas Party for employees will be held on Wednesday, December 15 from 5:15 p.m. to 10 p.m. in the Village Barn. "Final Touch" will entertain and fried chicken is on the menu. A variety of beverages will be available and a "spirits raffle" is scheduled. Chairpersons are Walter Coleman and Sharon Koteles with Jane Pesetski co-chairing. For further information, contact Sharon on ext. 3598.

IIT/V REGISTRATION HERE DECEMBER 6

A representative from Illinois Institute of Technology will be at Fermilab to discuss IIT/V and take registration materials from continuing students (see Ferminews, November 25, 1981). Anyone interested may attend the meeting in Curia II, Monday, December 6, from 10:30 to 11:30 a.m.

"SEXPLOITATION" IS TOPIC OF FILM

On Thursday, December 9, at 11:45 a.m., a film called "Sexploitation: Sexual Harassment in the Workplace," will be shown in Ramsey Auditorium.

This film will give a general overview on the subject of sexual harassment. It is composed of a series of scenarios that highlight the most common experiences employees face in the workplace. It is about one-half hour long and will be followed by a question-and-answer period. Everyone is invited to attend with supervisor approval.

NEW RATE STRUCTURE FOR BONDS

A major improvement in the U.S. Savings Bonds program took place November 1, 1982, with the change to a variable market-based interest rate structure on Series EE Bonds held five years or longer. The minimum yield on new EE Bonds held five years or longer is 7.5 per cent per annum, compounded semiannually.

There is no change in series or in the structure of the savings bonds program, so payroll savers will not need to re-enroll. Current payroll savers and owners of outstanding Series EE and most Series E Bonds will benefit automatically from the new rates. For more information, contact Payroll, ext. 3046.

Laboratory Holiday Schedule		
Event	Date Observed	Day
Christmas Eve (half-day)	December 23	Thursday
Christmas Day	December 24	Friday
New Year's Eve (half-day)	December 30	Thursday
New Year's Day 1983	December 31 1982	Friday

Fermilab is operated by Universities Research Association, Inc. under contract with the U. S. Department of Energy. Ferminews is published by the Publications Office, P. O. Box 500, Batavia, IL 60510, phone (312) 840-3278.

FOR SALE: HOUSES:

TWO-BEDROOM FOR RENT OR POSSIBLE OPTION TO BUY. NW Aurora; liv. rm., din. rm, fam. rm., carpeted, attached garage, stove, refrig., dishwasher, central air, and fenced yard. \$465 per month. Call 898-8453 before 5 p.m., or 859-3510 after 5 p.m.

TWO-BEDROOM CONDOMINIUM FOR RENT. Near Rt. 59 and Batavia Road, includes full basement, washer, dryer, disposal, air cond., and dishwasher. Call Dan Owen, ext. 3313, or evenings 393-2388.

THREE-BEDROOM CONDO FOR SALE. Near Rt. 59 and Batavia Road, includes din. rm., rec. rm., bsmt., 2 baths, attached garage, all appls.; near pool. VA-FHA OK; rent with option considered or assume low %. Seller anxious; \$54,900. Call ext. 3377, or 393-1711.

LAND:

THREE ONE-ACRE-PLUS LOTS FOR SALE IN WISCONSIN. Wooded, 15 lakes nearby, 25 minutes from downtown Milwaukee. Call Cheryl, ext. 3777 for more information.

CARS:

1974 BUICK CENTURY STAGE I. Rebuilt 455 cu. in. engine and 400 turbo transmission; pwr. str., pwr. brakes, air cond., elec. sun roof, and positraction. \$1,400. Call Kevin Graham, ext. 4668 or 4553.

1939 CHEVROLET MASTER 85 SHOW CAR. Antique, original throughout, 58,000 mi., must see and drive. \$4,200 best offer. Call ext. 4344, or 894-4559.

MISC.:

1981 SUZUKI RM250. Very good condition, \$1,000. Call 892-3331.

GOODYEAR D78-14 WSW TIRES. Two "Suburbanite" snowtires, good tread, \$15 ea.; two "Power Guide," reg. tread, good cond., \$10 ea.; all four, \$40. Call Randy, ext. 3355.

SPECIAL:

For information on the following items, call Nora at 469-7073, or 858-9443:

• FURNITURE. Last month's prices cut; make offer. Scandinavian bunk beds, complete, good condition; large sturdy maple table with 2 leaves; 5 maple kitchen chairs, need recovering; small 1930's decorative wood desk with chair; sofa and chair set, beige upholstered, can sell separately, good condition; school desk with attached chair, wood and metal; dark hardwood coffee table; birch frame love seat, needs cushions; metal folding cot; folding metal high chair; twin-size bed frame and foundation; 42 in. diameter round table with metal legs.

- CLOTHING. Boys's age 11, 32 in. long English import rain coat, navy blue, zip-out pile lining, never used, \$15; woman's size 7 white all leather ice skates, good condition, \$13; man's size 8 black-brown leather racer ice skates, \$8; small black Spanish leather woman's purse, 4 compartments, excellent condition, \$9.
- APPLIANCES, ETC. Tasco refractor telescope, 300X Solarama, needs minor adjustment, \$59; Oster automatic fruit and veg. juicer, never used, in box, \$59; animal cage, size 4, new, in box, \$9; child's wagon with extra-high wooden sides, \$15.