

# The Village Trier



fermi national accelerator laboratory

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## FERMI LAB COPING WITH RISING COSTS OF ELECTRICAL POWER

An overall 46% rise in the cost of electrical power since April, 1974, has affected every facet of Fermilab operation, and the Laboratory is taking extraordinary measures to end FY 75 ahead of the electric bill.

How big is this bill? It would currently be about \$440,000 each month, for the 33,000 megawatt hours of energy consumed when the normal 300 BeV research program is run in all four experimental areas for thirty days. Prior to April, 1974, when it rose to \$354,000, this power use cost \$303,000 each month. In February, 1975, an interim rate increase was granted by the Public Utilities Commission of Illinois pending the outcome of a request for a permanent change. This would take the bill for 33,000 MWH to \$440,000 and there are prospects of another raise in the offing. In fact, the present basic power bill, as determined by the demand charge specified in the contract with the Commonwealth Edison Company, is nearly \$330,000 and that provides only for about 23,500 megawatt hours of energy use per month.

With the Main Accelerator using about half of the power consumed at Fermilab each month, consideration of saving measures had to begin there. The running schedule for the Main Ring currently includes a "down" week at the end of every other month and the beginning of the next, i.e. a nominal six weeks on, followed by two weeks off, schedule. Other adjustments in the Main Ring schedule during accelerator research periods will bring savings in the cost of running the Main Ring, which is almost \$1.00 per pulse (\$475 per hour), during normal 300 BeV operation.

When any part of the accelerator system is turned off for more than 30 minutes, to carry out repairs, the Main Ring ramp will be shut off or greatly reduced and experimental area beam lines turned down to low power until full operation can be resumed.

In addition to the major program alterations, other efforts can help. A recent request to "turn off the lights" in the Central Laboratory during a special maintenance project brought a surprising drop in demand from 1.9 to 1.6 megawatts. The weeks before the air conditioning demand increases should bring more savings if people continue to "turn off the lights" and eliminate all other unnecessary power loads.

"Using energy wisely is using our money wisely," Halsey Allen, head of Operations, points out. "When we save energy, we save money and are thereby being doubly good stewards of our available resources."

The Laboratory learned in early April that the transformer expected to be delivered and installed during the April-May shutdown failed on its final performance test at the vendor's factory. The earliest it could now be expected to arrive is June. The giant transformer will provide the capability of pulsing the Main Ring up to the 500 BeV level when operated in conjunction with the series capacitor bank installed last year. This installation is of great importance to the future plans for increasing the energy of the accelerator and will provide the most efficient means for achieving an operational status at energies of 400 BeV and above.

The installation of a superconducting transmission line, now in the design stage, to feed power from the Master Substation to the Main Ring, will greatly reduce the energy losses in that portion of the system, particularly when running at the higher energies. Although the total energy consumed will be greater during the higher energy operation, the overall efficiency will be markedly increased and, in that sense, an energy saving will be effected.

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1975 SWIMMING POOL SEASONS BEGINS MAY 24

The 1975 swimming pool season at Fermilab will open on Saturday, May 24 at 9:00 a.m. The pool will again provide recreational and social opportunities for the Laboratory staff and visitors. This year, pool membership is open to the Fermilab staff, their guests and visiting experimenters and their families, the ERDA office at Fermilab and employees of Mercury Management and Advance Security members working at Fermilab.

Season memberships to the pool will be on sale from May 12 - May 16 at the Travel Office CL-1W and at the Users Office, CL-1E from 9:30 a.m. - 4:00 p.m. The rates for pool membership are as follows:

Single Person	\$15.00
Married Couple	\$25.00
Family	\$30.00

Without pool membership tags, persons wishing to use the pool may pay an admission fee of \$1.00 per day. Daily admission charges will be strictly enforced.

The pool schedule is as follows:

Weekdays --

6:00 a.m. - 8:00 a.m. - adults only, no lifeguard

11:00 a.m. - 9:00 p.m. - family swimming, lifeguard on duty

Weekends and Holidays --

9:00 a.m. - 9:00 p.m. - family swimming, lifeguard on duty

Swimming Instruction for children will again be part of the pool program. The lessons will be taught by a Certified Water Safety Instructor. Sessions will be on the following dates:

Session 1 - June 9 - July 11

Intermediate Lessons--Tuesday-Thursday, 9:30 - 11:00 a.m.

Beginning Lessons--Monday-Wednesday-Friday, 10:00 - 11:00 a.m.

Session 2 - July 14 - August 15

Same days and hours

The fee for swimming lessons is \$12.00 per session. Children must be at least three feet in height to join swimming lessons. Interested persons may sign up for lessons at the Travel Office from May 12 - May 16. Class size is limited and placement in classes will be on a first-come, first-serve basis. On bad weather days, safety instruction will be given in the Village Barn.

Adult lessons will be offered on Thursday evenings from June 12 - August 14, from 7:00 - 8:00 p.m. The fee is \$12.00 and persons may register at the Travel Office.

A new program at the pool will be the Fermilab Swim Team. The team is open to children from ages 7 - 16 years. Details on practice times will be issued at a later date. Interested persons may sign up for the team at the Travel Office.

The pool operation will be administered by Jane Theis, Recreation Manager, with the help of the Employees Swimming Pool Advisory Committee. Members of the committee are Dave Carey, chairman, Joyce Sobinsky and Tom Pawlak. The pool committee welcomes your suggestions for improved pool operation. Call Jane, Ext. 3082.

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TENNIS COURT SCHEDULING has been revised. Courts now may be reserved for one hour of play. A sign-up sheet will be posted on a weekly basis, beginning Monday, May 12, on the bulletin board by the Village Barn.

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BLOOD DONATION DAY AT FERMILAB... Mon., May 19. Call Medical Dept, X3232 for appointment NOW!

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FERMILAB BOWLING CHAMPS

FERMILAB bowlers finished their 1974-75 season and awarded trophies at a gala banquet...

FIRST PLACE TEAM  
"Tony and the Tigers"

Tony Winchester      Bob Florian  
Barb Schluchter      Jack Smith  
                                 Dick Downs

SECOND PLACE TEAM  
"Fighting Irish"

Jack Jagger      Marion Richardson  
Tom Saunders      John Santori  
                                 Joe Heim

HIGH AVERAGE

MEN: Harland Gerzevske  
WOMEN: Joy Thomas

HIGH SERIES

Tony Rader  
Joy Thomas

HIGH GAME

John Santori  
Liz Foster

MOST IMPROVED

Dick Downs  
Jackie Gifford

HIGH TEAM SERIES: Turkey Chokers, Doug Maxwell, Captain

HIGH TEAM GAME: Turkey Chokers, Doug Maxwell, Captain

Clarence Bowling bowled one game which was more than 100 pins over his average: 229, which qualified him for an award called the "Century Club" award.



...First Place, (L-R) D. Downs, T. Winchester, B. Schluchter, J. Smith and Bob Florian...



...Second Place, (L-R) T. Saunders, J. Jagger, J. Heim, J. Santori, and M. Richardson...



...'74-'75 Officers, B. Schluchter, H. Gerzevske, S. Nila, and H. Ecker...



...Joy Thomas accepts award from Harland Gerzevske...



...Jackie Gifford...



...Jan Raboine...



...Hal Satter...



...Left photo (L-R) Theo Gordon, Tony Albano, John Robb, Jean Plese, Jackie Satter, and Ralph Ovitt...

**FERMILAB RECEIVES TOP ENGINEERS' AWARD**

John A. McCook, Associate Director for Administration at Fermilab, announced this week that Fermilab is the recipient of one of the top ten national awards from the highly-esteemed American Consulting Engineers Council. The awards are made annually by the Council for extraordinary excellence in architectural concept and design. Fermilab was selected from some eighty candidates, receiving the award jointly with Daniel, Mann, Johnson, and Mendenhall of Los Angeles, one of the DUSAF joint venture firms, at a meeting at Las Vegas on May 7. Henry Hinterberger, Head of the Fermilab Technical Services Division, accepted the award on behalf of R. Wilson, Fermilab Director.

**TAX REDUCTION ACT OF 1975**

Because of changes made by the Tax Reduction Act of 1975, new withholding tables, which are reproduced below, have been issued by the Internal Revenue Service. These tables will be used by Fermilab for wages paid on and after May 1, 1975.

**TABLE 1. WEEKLY Payroll Period**

(a) SINGLE person—including head of household:				(b) MARRIED person—			
If the amount of wages is:		The amount of income tax to be withheld shall be:		If the amount of wages is:		The amount of income tax to be withheld shall be:	
Not over \$25		0		Not over \$48		0	
Over—	But not over—		of excess over—	Over—	But not over—		of excess over—
\$25	—\$67	16%	—\$25	\$48	—\$96	17%	—\$48
\$67	—\$115	\$6.72 plus 20%	—\$67	\$96	—\$173	\$8.16 plus 20%	—\$96
\$115	—\$183	\$16.32 plus 23%	—\$115	\$173	—\$264	\$23.56 plus 17%	—\$173
\$183	—\$240	\$31.96 plus 21%	—\$183	\$264	—\$346	\$39.03 plus 25%	—\$264
\$240	—\$279	\$43.93 plus 26%	—\$240	\$346	—\$433	\$59.53 plus 28%	—\$346
\$279	—\$346	\$54.07 plus 30%	—\$279	\$433	—\$500	\$83.89 plus 32%	—\$433
\$346		\$74.17 plus 36%	—\$346	\$500		\$105.33 plus 36%	—\$500

**TABLE 4. MONTHLY Payroll Period**

(a) SINGLE person—including head of household:				(b) MARRIED person—			
If the amount of wages is:		The amount of income tax to be withheld shall be:		If the amount of wages is:		The amount of income tax to be withheld shall be:	
Not over \$108		0		Not over \$208		0	
Over—	But not over—		of excess over—	Over—	But not over—		of excess over—
\$108	—\$292	16%	—\$108	\$208	—\$417	17%	—\$208
\$292	—\$500	\$29.44 plus 20%	—\$292	\$417	—\$750	\$35.53 plus 20%	—\$417
\$500	—\$792	\$71.04 plus 23%	—\$500	\$750	—\$1,146	\$102.13 plus 17%	—\$750
\$792	—\$1,042	\$138.20 plus 21%	—\$792	\$1,146	—\$1,500	\$169.45 plus 25%	—\$1,146
\$1,042	—\$1,208	\$190.70 plus 26%	—\$1,042	\$1,500	—\$1,875	\$257.95 plus 28%	—\$1,500
\$1,208	—\$1,500	\$233.86 plus 30%	—\$1,208	\$1,875	—\$2,167	\$362.95 plus 32%	—\$1,875
\$1,500		\$321.46 plus 36%	—\$1,500	\$2,167		\$456.39 plus 36%	—\$2,167

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.....THE USERS CENTER, located in the old Village Cafeteria, will be open from 5 p.m. to midnight Monday-Friday and closed on weekends effective May 5. The Center offers a variety of activities including chess, checkers, pool, ping pong, darts, cards, magazines, color television, and a relaxing atmosphere for informal discussions.

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NALREC Arts and Crafts Show will be held in the Atrium of the Central Laboratory May 12-16.

THE INTERNATIONAL FILM SOCIETY WILL PRESENT *Children of Paradise (Les Enfants du Paradis)* on Friday, May 9, at 8 p.m. in the Central Laboratory Auditorium. The film was directed by Marcel Carne. Admission for the film is \$1.00 for adults and 50¢ for children.

**CLASSIFIED ADS**

**WANTED BY LIBRARY** - Will borrower please copy article and return Volume 7 of the Encyclopedia Britannica.

**FOR SALE** - 1974 Dodge Royal Sportsman Maxiwagon, 15 pass. 360/V-8, AT, AC, P/S/B, Loaded, \$7247.65 new, make offer. Homer D. Clover, Ext. 3089, 554-1375.

**FOR SALE** - 1973 Monte Carlo, brown & beige Landau top, 28,000 mi. Disc brakes, swivel buckets, console, AM-8 track radio, rear defrost, AC, more. \$3000. T. Golaszewski, Ext. 3122.

**FOR SALE** - 1966 Pontiac Wagon, New tires, clean, runs good. \$250. Ron Fast, X3381, 879-2483.

**FOR SALE** - 1974 Ford Ranchero, P/B/S, new tires, exc. cond. 1966 Ford Squire, good cond. 1970 Cadillac, good cond. 1966 Pontiac, good cond. MUST SELL. B. Murphy, 879-7562.