February 7, 1985
FERMI NATIONAL ACCELERATOR LABORATORY

FermiNews

FERMILAB FUNCTIONS ON F.O.E. POWER

Gary Teague repairs a broken water line in the Meson Detector Building.

People Behind The Jobs...

They're dirty jobs, but somebody's got to do them.

When the jobs in question amount to shouldering responsibility for maintaining and repairing most aspects of the site-wide physical plant at Fermilab, "somebody" is the Facility Operations and Engineering Department.

Formerly known as Plant Maintenance, F.O.E. operates on "a 24-hour a day, 7-day a week, 52-weeks per year basis," according to Chuck Anderson, head of the department. In fact, shortly after Chuck's **Ferminews** interview, his department's round-the-clock on-call status was brought into focus when they responded to the failure of one of the huge transformers that provide power to the site (see adjacent article).

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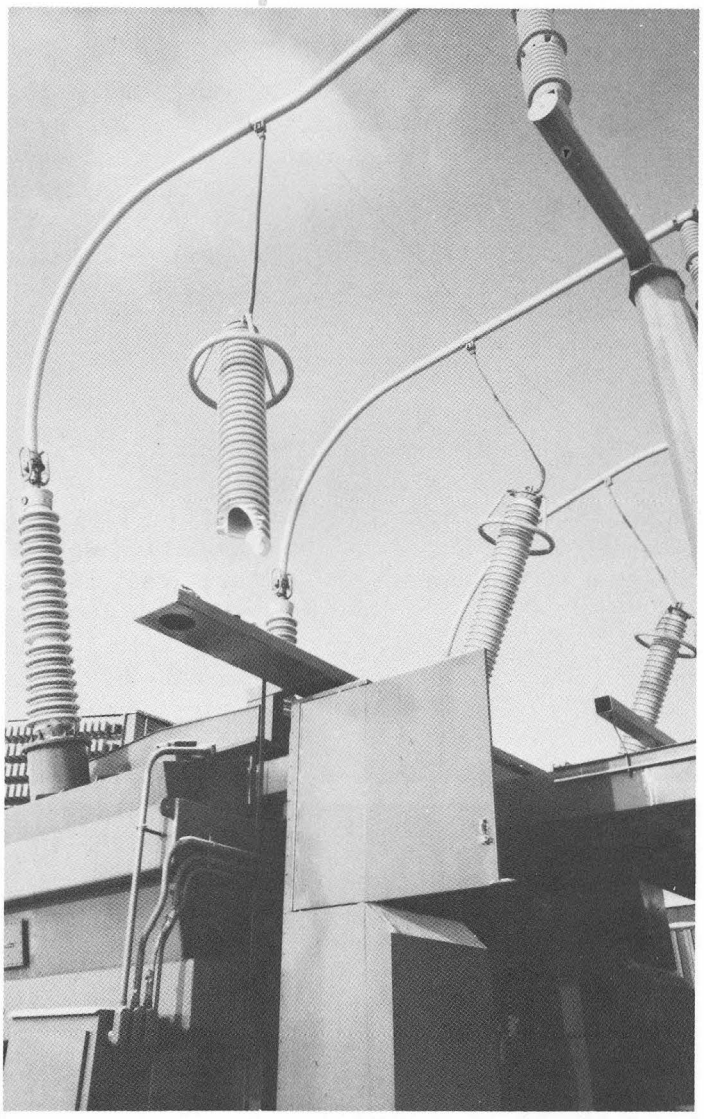

Damage to lightning arrester caused when power transformer failed.

F.O.E. Handles Power Failure

At 11 p.m. on Thursday, January 24, an internal fault in the Laboratory's largest 13,800-volt pulsed power transformer shut off power to the Main Ring, Wilson Hall, and most of the site.

Announced by a concussion felt all the way at the Site 38 Fire Department, the fault cracked the 3/4-in. thick steel walls of the transformer, shattered 8-ft lightning arresters, bent steel conduit, and moved the 250-ton transformer about 4 inches due north.

(cont'd. on col. 2, pg. 2)

Facility Operations Jobs . . .

(cont'd. from col. 1, pg. 1)

The department is comprised of several distinct groups, each with its own specializations:

Electrical Group. This group is responsible for maintaining and operating all low and high voltage distribution systems, motor control centers, street and building lighting, emergency lights, and fire alarm systems. They also repair overhead cranes, emergency generators, etc. The electricians provide service ranging from changing a light bulb to repairing the 13,800 volt electrical feed to the accelerator.

Mechanical Group. The mechanics maintain and repair all the pumps, air compressors, fire hydrants, valves, etc. They are also responsible for the domestic water, cooling/fire protection water, gas lines, and sewers on the entire site. Cooling ponds for accelerator and beam line operations are also maintained by this group. Literally all plumbing problems

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Power Failure . . .

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Responding to the emergency, 9 members of the Facilities Operations and Engineering Department were faced with two immediate tasks: restoring power to the site and coping with the 20,000 gallons of oil inside the transformer which was in danger of seeping out through the cracked transformer case.

The first 3,000 gallons of oil were pumped into 55 gallon drums until a Commonwealth Edison tanker truck arrived to accommodate the remaining 17,000 gallons.

By 1 a.m. on January 25, power was restored to the site when a back-up transformer was brought on-line, but oil-pumping operations weren't completed until 9 p.m when the last of the 20,000 gallons was safely stored in the tanker truck.

Jim Covay, left, and Rick Groesch install a water heater at the Village greenhouse.

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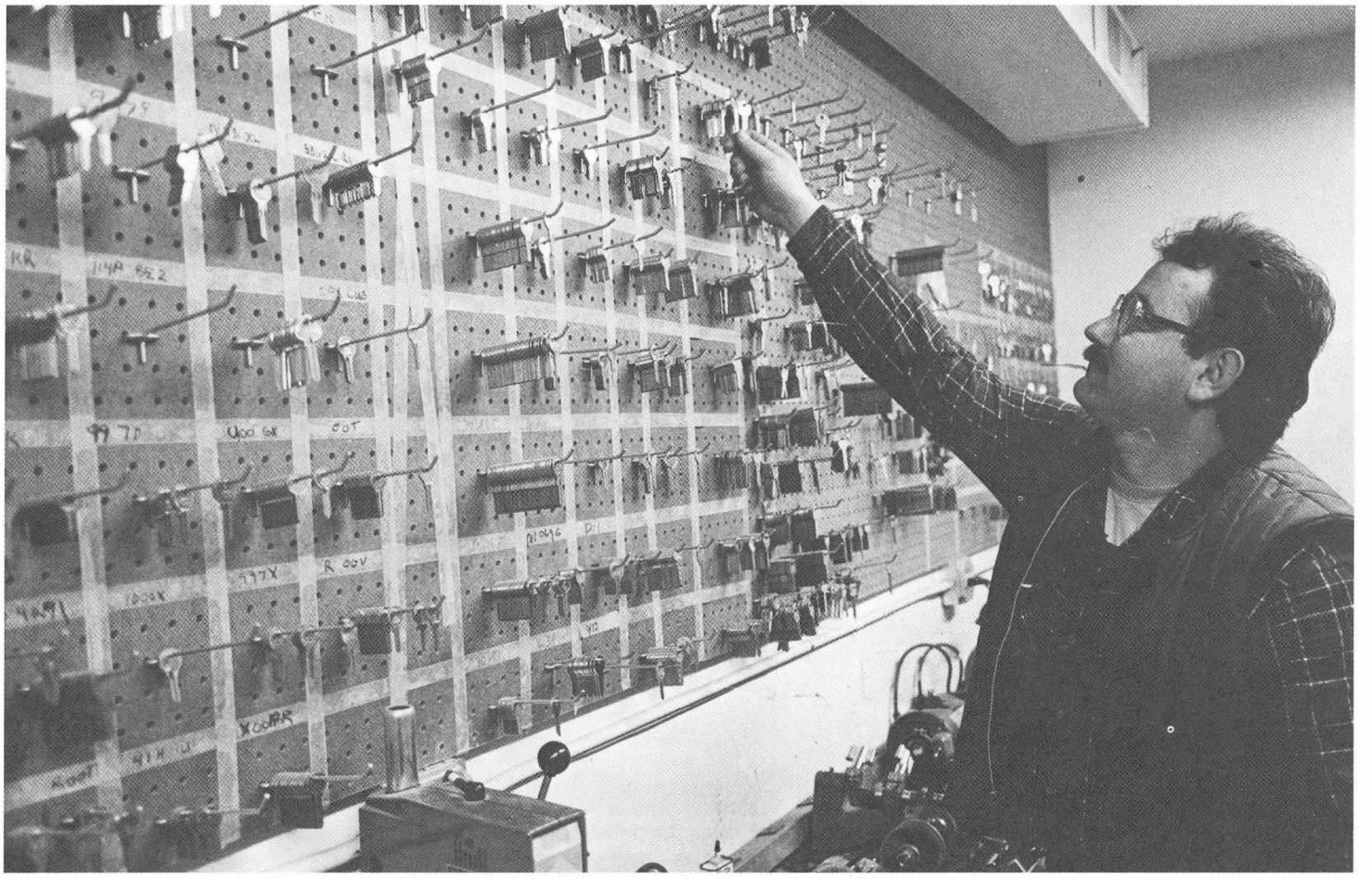


Earl Shaffer, locksmith, selects a blank to make a key.

find their way to these craftsmen who also service many heat exchangers and boilers.

Carpenter/Paint/Lock Shop. As the name implies, this group performs carpentry, painting, and locksmith services for the entire site. You may see them plying their trade in Wilson Hall, in the Village, or anywhere in between.

Engineering. The primary function of this group is to provide engineering support to the maintenance and utility functions in the department. This includes engineering investigations, utility systems analysis and studies, engineering designs, maintaining up-to-date drawing files, and providing fire protection engineering. In addition, the staff provides engineering support to other Business Services departments and to other sections upon request.

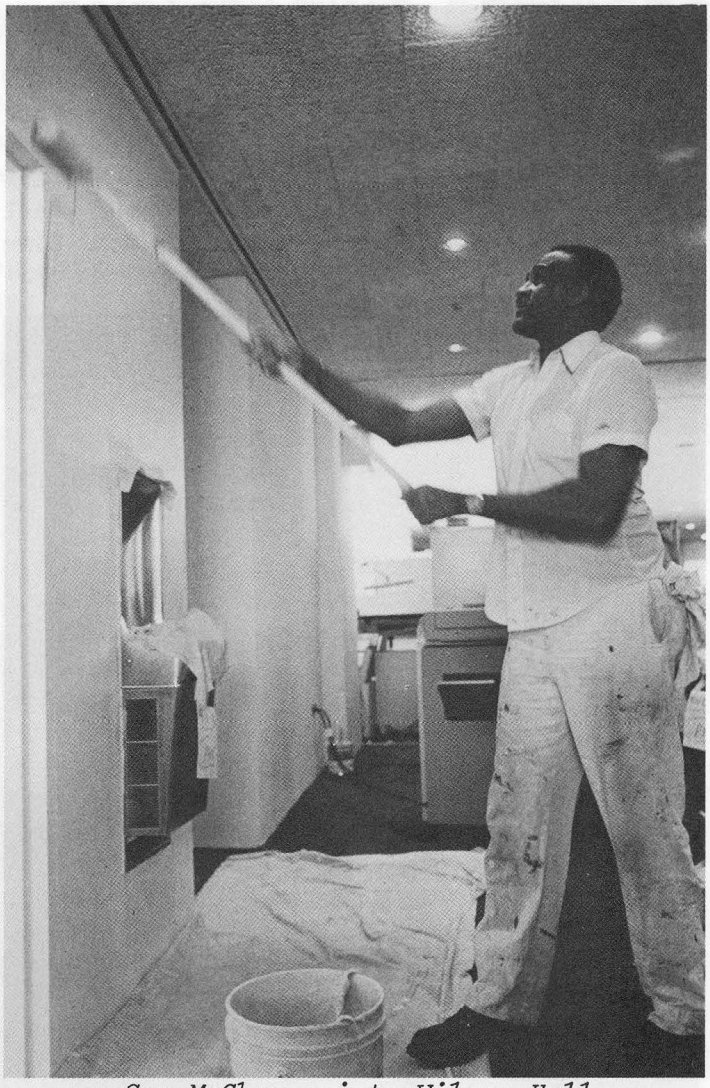
Coordination and Operations. This group is comprised of three small subgroups: The Parts group acquires the parts requested by the repair groups for use throughout the Laboratory; Work Central is the central receiving point for all trouble calls and requests for assistance. By dialing ext. 3434 you can report a problem or request help from any of the service groups within this department; T&M operations performs the liaisons and coordination functions between Laboratory personnel and the time and material subcontractors. They administer contracts for sheet metal fabrication, rigging/millwright work, electrical, pipefitting, and general construction. They estimate costs, process paperwork, track costs, and perform all clerical functions for these subcontracts.

Refrigeration. Prime responsibilities of the Refrigeration group are to perform preventive maintenance and repairs on direct expansion cooling equipment and gas-fired heating equipment. This equipment includes furnaces, unit heaters, boilers, air conditioners, refrigerators, freezers, heat pumps, and water chillers. Equipment sizes range from residential furnaces and window air conditioner units to large commercial boilers and chillers which are located in various places on the site.

Will Hobbs wraps conduit.

Ken Lindberg, left, and Don Walker repair a water distribution pump in the Maintenance Shop.

Victor Mendoza repairs the broken water line that put this water cooler out of commission.



Sam McGhee paints Wilson Hall.

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Electrical Power. An important function of Facility Operations and Engineering is the responsibility for site wide high voltage electrical power distribution. Commonwealth Edison Co. provides power to the site at 345,000

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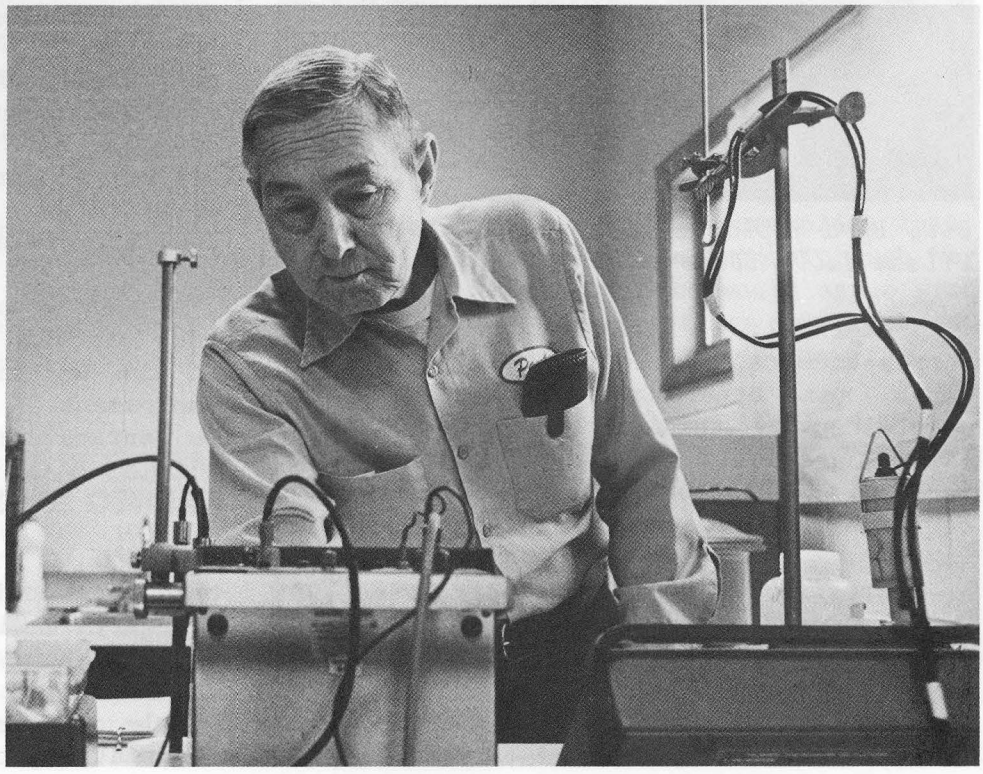

Paul Linden, Waterworks Operator, tests water for impurities at Site 38. Paul takes water samples from various places around the site and tests them in the Water Lab. ⟶

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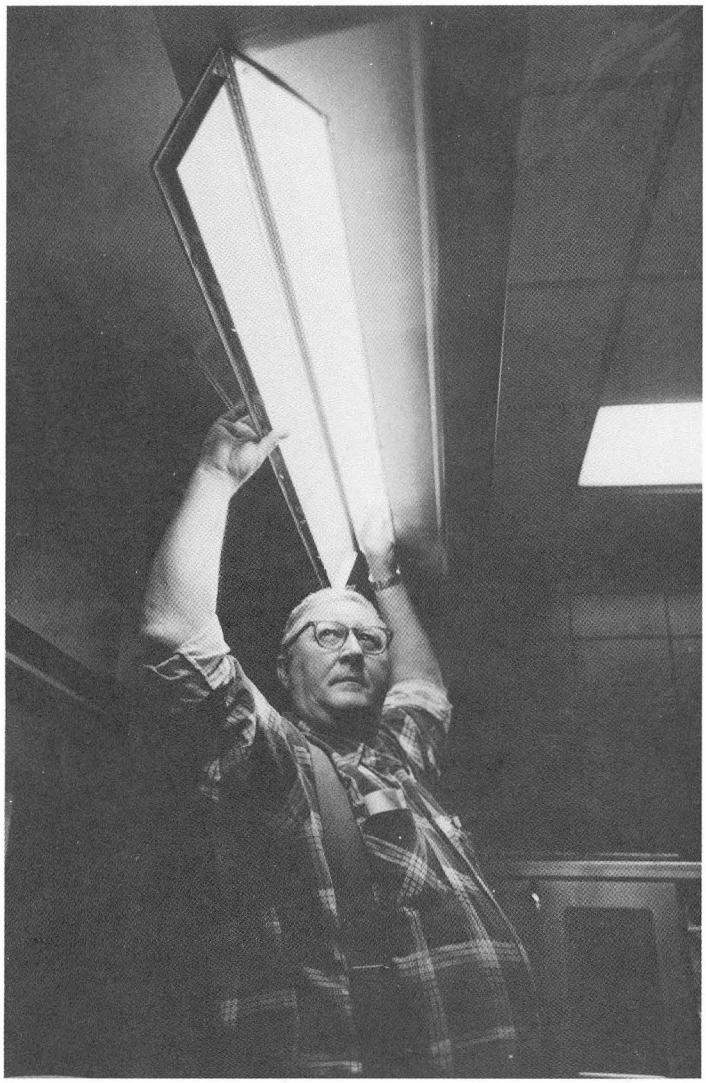
volts, and F.O.E. personnel maintain and coordinate the transformers, switches, and relays necessary to distribute this power at the proper voltage throughout the site. The continuity for power distribution requires a team effort as personnel deal with emergencies and interface with contractors and other Laboratory departments.



Bill Byrd replaces fluoresent tubes in the Wilson Hall kitchen.

Clerical. All records, reports, correspondence, periodic maintenance updates and other required records are maintained by this force. Approximately 14,000 preventive maintenance cards were handled in FY84. There are 4500 pieces of equipment associated with these cards.

Special Projects. Facility Operations and Engineering oversees the construction, inspection, and acceptance of new utility lines, power installations, and other improvements or modifications to the physical plant.

ATRIUM TO BLOOM WITH ORCHIDS

The Batavia Orchid Society is once again sponsoring an orchid show on Saturday and Sunday, February 9 and 10. This will be their third and largest show, drawing orchid growers from all over the Midwest.

The flower and arrangement competition and the potting demonstrations will be in the atrium of Wilson Hall. A lecture by Otto Leupi on "Native Midwest Orchids in Bloom in May and June" will be given in Ramsey Auditorium at 1 p.m. both Saturday and Sunday. At 2 p.m. Dr. David Niemann will lecture on "Native Fox Valley Orchids." A film "The Orchid and The Grower" will be shown each day at 3 p.m. An orchid art show will be exhibited in the gallery area on the second floor of Wilson Hall.

The Batavia Orchid Society's Third Annual Show will be open to the public Saturday from 11 a.m. to 5 p.m. and Sunday from 10 a.m. to 5 p.m.

UPDATE OUTSIDE EMPLOYMENT RECORDS

The agreement with Department of Energy under which the Laboratory is operated requires that any employee notify the Laboratory administration of any outside comparable employment he or she proposes to undertake.

This notification is for the purpose of determining whether any organizational conflicts of interest may exist. Laboratory employees are entitled to pursue outside employment; however, outside employment may not interfere with the proper and effective performance of the employee's position with the Laboratory nor create a conflict-of-interest situation.

When a person enrolls on the Laboratory payroll, a brief statement is included in the material completed regarding other employment. Pat Moyer, ext. 4365, should be contacted to update that statement.

NALREC SPONSORS TRIP TO MARDI GRAS

NALREC will sponsor a seven-day rail trip to Mardi Gras in New Orleans, from February 15-21.

Tour price is $499/person, based on double occupancy. For reservations or more information, call Jesse Guerra, ext. 4305.

SYBIL KREBS RETIRES FROM DUPLICATING SERVICES

"Sybil, do you think you can do it?" With that oft repeated question, Sybil Krebs "did it" for 10 years. When she started at Fermilab, Duplicating had an A. B. Dick press, a Xerox 7000, and a 3M camera, and as Sybil says, "the only way to move was up." Doing exactly that, Sybil increased the volume and particularly the quality of Fermilab publications.

This was a challenge to Sybil because at Fermilab she had to work with a paper master (offset printing) and her training at Standard Publishing Company in Ohio, where she received her craftsman card, schooled her in printing practices employing metal masters. As she had done throughout her life in tough situations, Sybil quickly mastered this technique, as proven by her many conference books, auditorium programs, and personnel handbooks.

Sybil Krebs (seated) surrounded by former, and present employees, and her sons during her retirement party. Left to right are Millvenia Stiff, Jacqueline Stevens, John Krebs, Jim Krebs, Eva Tuggles, Vanetta Readus, and Donna Bohler. Not pictured are former employees Sandy Poll and Dee Young.

Millvenia Stiff (Property Office), one of Sybil's former employees, commented at Sybil's retirement party, "Sybil worked hard to teach us the value of teamwork and cooperation. Her motto was always 'Keep Working'." Thus Sybil worked with fervor to meet last minute publication deadlines and to produce a product in which her department could be justifiably proud.

Sybil's first goal for her retirement is to regain her health. To accomplish this, she is considering relocating anywhere from southern Illinois to Florida, and although her grandson Jason would miss his "Gamma," Sybil thinks that a warmer climate would agree with her. And, then, maybe volunteer church work, a little writing, and letters to Jason and her son Jim will keep her occupied, fulfilling her adage.

RD

HOUSING RESERVATIONS DUE SOON

The deadline for receipt of reservations for summer on-site housing is Friday, March 22. Housing assignments for summer experimenters will be made in April, and responses will be mailed April 12. The starting dates for summer occupancy will begin May 27. For further information contact Pam Naber, ext. 3777.

Assorted Photos Available

Old **Ferminews** photos are available in the Library on a first-come-first-served basis. For more information, contact Sue Winchester, ext. 3278.

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LUCKY JOE MILLER WINS TRIBUNE'S SUPER BOWL TRIP

by Sue Winchester

Imagine having seats on the 45-yard line for the 1985 Super Bowl game between two of the most high-powered teams to ever compete, the Miami Dolphins and the San Francisco 49'ers. Some people were paying $800 to $1000 for such seats.

Joe Miller of Purchasing, won those tickets on the 45-yard line, 12 rows up from the field, in a contest promoted by the **Chicago Tribune.** To qualify initially for the finals, Joe had to pick the four winning teams of the selected weekly professional football games listed in the Monday edition of the **Chicago Tribune.**

The names of ten of the weekly winners were selected by lot and each of the winners were awarded a complimentary evening at one of the local Marriott Hotels. In addition, each of the weekly winners then qualified for the finals. Next Joe had to predict between the Chicago Bears and the 49'ers in the National League and the Dolphins and the Pittsburgh Steelers in the American League which team would go to the Super Bowl and the total points scored in both games. He correctly predicted the highest scoring teams in four games.

Joe's trip also included an all-expense paid vacation for five days, including a rental car and $500 spending money. Not only did he get this once-in-a-lifetime trip to the Super Bowl, but Joe was also able to spend some of his time sightseeing. While he was in California, Joe visited Chinatown, Fisherman's Wharf, the Golden Gate Bridge, Stanford University, and several wineries.

On January 20, when most of us were busy jump-starting our cars, Lucky Joe was able to sit back, enjoy the fine weather of California, and cheer the 49'ers to a victory of 38 to 16 over Miami. Talk about an armchair quarterback's dream come true!

Joe Miller is all smiles as he shows off his tickets for the Super Bowl game.

Congratulations To . . .

Lillian Hoddeson (Historian) and Gordon Baym on the birth of Carol Lis Baym on January 20, 1985 at Carle Clinic in Urbana. Carol weighed 7 lbs. and 6 oz. Carol joins older brother Michael at home.

FRENCH FILM PROVIDES LAUGHTER

Fermilab's International Film Society will present "Jour De Fete" (France), on Friday, February 8, at 8 p.m. in Ramsey Auditorium. Jaques Tati's film about a village postman who decides he can deliver mail as quickly as the New York Postal Service contains the finest slapstick since the heyday of Chaplin and Keaton.

Admission is $2 for adults and 50¢ for children at the door. For more information, call ext. 3353.

URA SCHOLARSHIP APPLICATIONS DUE

Universities Research Association scholarship applications are now available in the training office, Wilson Hall 15. The deadline for returning them is March 1.

CLASSIFIED ADS TO BE DISTRIBUTED WITH **FERMINEWS** FEBRUARY 7, 1985

FOR SALE:

HOUSES: THREE-BEDROOM YEAR-ROUND HOME AT LAKE DELAVAN, WI. Located in Assembly Park, approx. 65 mi. from Fermilab; completely furnished and redecorated, gas furnace, water heater, new sewer system, all furniture included. Low $50's. Call D. J. Mills, 352-8825 after 5 p.m.

FOR RENT:

TWO-BEDROOM APARTMENT IN ST. CHARLES. In older home, with garage, porch, fireplace, beamed ceilings, completely carpeted; quiet non-smoking couple preferred. $600 per month plus security deposit. Call David Lindley, ext, 3665.

TOWNHOUSE. 5 min. from Fermilab Village, long or short term, $520 per month. Call Henry, ext. 3377 or 393-1711.

AUTOS: 1980 FORD F150 RANGER FULL-SIZED PICKUP. Gold/maroon w/white fiberglass cap w/slide window, 302 h.p. V8 engine, manual 3-spd. w/overdrive transmission, P/S, P/B, A/C, full instrum. pkg., AM radio, LED clock, security lock pkg., tinted glass, slide rear window, dual gas tanks, and Ziebart rustproofing; $5900. Call Bob Vanecek, ext. 4468 or 879-8957 evenings.

1979 BLUE FORD MUSTANG. P/S, A/C, P/B, AM/FM, auto trans., clean, no rust; $3000 or best offer. Call 393-1228.

1978 PONTIAC GRAND LE MANS SAFARI 4-DR. WAGON. V6, A/T, P/S, P/B, A/C, cruise, AM/FM stereo w/cassette, lug. rack, 91,000 mi., very good cond.; $2995. Call Rich, ext. 3868 or 690-1691.

1974 FORD PINTO WAGON. Ran well before transmission problems. Call Bill Williams, ext. 3169.

1972 GRAND PRIX. White vinyl top, orange body, new tires, good work car, rusted. $600 or offer. Call Nelly, ext. 3090.

MISC: THOMAS ORGAN. Model El Camino 153, two 44-key colorglow keyboards, bass pedals, built-in drummer w/9 rhythms, 12 reg. organ tones and volume ocntrols, excellent condition; asking $450 or best offer. Call Terry Hendricks, ext. 4040.

PUPPY. Three-month old Golden retriever, A.K.C., with shots; asking $250. Call 355-6751.

For the following items call Bob Brooker, ext. 4700: Frigidaire upright freezer, very good cond., $100; antique dining table, $20; antique sideboard buffet, $15.

continued on reverse

For the following items call Charles Mangene, ext. 3614: Two Mediterranean-style pecan-wood finish bassett lamp tables, good cond, $30/pr.; twin frame, box spring, mattress, and headboard, $25 complete.

For the following items call Cynthia, ext. 3082: sunflower yellow, urethane foam, fold-out armless chairs, used as a chair or unfolded as a single bed, four at $40 each; goldenrod w/rust, green, and gold 5 ft×7 ft contemporary area rug, $50; brown cotton velvet sofa, $75.

For the following items call Sharon Koteles, ext. 3598: 2-H78-15 Firestone snow tires w/rim, used one season, asking $100; Polaroid Camera Model 210 w/flash and carrying case, asking $10; girl's NIKE roller skates in excellent cond., size 6, asking $50; several 78 RPM collector records.

For the following items call Barb, ext. 4136: X-country ski boots: men's size 11, leather and plastic , good cond., $15; size 6 (38 cm) leather, excellent cond., $18; size 3-1/2 (34 cm) leather, well used, $8. 1 pr. men's medium bicycling shorts, emily k, chamois seat, used once, $8; REI Alpine Expedition Tent A-frame shape w/ entrance at each end, excel. winter tent, sleeps 4, used one summer, $260 new, will sell for $120; 1 pr. men's size 12 leather figure ice skates, $10.

For the following items call Bill Williams, ext. 3169: new front hub/disk for '74 Pinto, new set of front disk-brake pads, coplete set of 1974 Ford shop manuals, any or all for best offer.

WANTED: To say "Good-by" to my many good friends at Fermilab, especially in Receiving. You will be missed! Good luck and see you in El Paso.

- Louis G. Navarro