

# FERMILAB NEWS

 Fermi National Accelerator Laboratory

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...Proton mechanical group members are L-R: B. Noe, Jr.; E. Mottys; M. Solis; R. Currier; A. Guthke; G. Smith; B. Carter; D. Sorenson; R. Davis; D. Hoffman and T. Waldrop...

## PROTON MECHANICAL EARNS 'A' FOR SUCCESS

While Fermilab danced, the Proton laboratory's mechanical group worked overtime recently to keep an important experiment running.

Thorton Murphy, Proton head, recounted the story with pride.

He cited mechanical group staffers for accomplishing a half year's work in about two months. "It was a great demonstration of the ability of diverse Fermilab groups to cooperate and handle a crisis," he said.

The story began in early July. A Proton target drawer magnet developed electrical shorts midway in its expected useful life. The apparatus is a 20-foot long iron box on rollers that contains two electromagnets, a beryllium target, and other components. It was decided that repair was not feasible. Since the drawer was vital to Experiment 152, scheduled to finish Sept. 5, it was decided to limp along to completion.

On July 27, the shorts had finally created a water leak. In desperation, a unique closed loop water system which recycled the leaking water was devised by Proton engineers. The Proton operations group worked gallantly around the clock



...Industrial II Conventional Magnet Group Staffers L-R: J. Mendoza; P. Rodriguez; I. Gonzalez; L. Griffin; M. Brooks; M. Clark; M. Sepulveda; and A. Gilbertson...

nursing the gradually dying drawer as E-152 continued to take data. The end came on Aug. 25.

During the crisis, project physicist Peter Garbincius coordinated the limp-along measures. On Aug. 3, Proton leaders decided to build a new drawer--Oct. 6 was set

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### PROTON MECHANICAL CONTINUED

as the deadline. "At first, we didn't think we could make that deadline," Murphy said.

Several groups assisted the Proton people. "We received cooperation from various corners of the Lab," said Murphy. "Booster" copper was borrowed from the Cooling Ring group.

Fabrication procurement won Murphy's praise for obtaining magnet steel "rush" from subcontractors. Giving the project top priority, the Magnet Facility, represented by Jack Jaeger's group, wound, insulated and tested the coils ahead of schedule. Village machine shop staffers manufactured special forms and tools for winding and potting the coils.

By Sept. 22, all of the various parts were in hand. Proton's mechanical group then took over and worked around the clock for five days to assemble the drawer. Group leader Ron Currier directed the

group's efforts throughout the project, taking graveyard shifts himself during the crucial five days.

It was on the second night of the three shift marathon that mechanical group members did the major assembly work with dancing above. It took place in the Central Laboratory's ground floor shop with a dinner-dance underway in the Atrium directly above. The occasion was in honor of former Fermilab director and deputy director Robert Wilson and E. L. Goldwasser.

During the crisis, Proton's site support and electrical instrumentation groups pitched in despite an already full work schedule for each.

"The drawer is installed and working," Murphy said recently. "We believe it will be far superior to its predecessor because of the careful construction and added protective instrumentation. The entire Proton Department and other Fermilab groups who cooperated to conquer the crisis have my gratitude."

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### DISCOUNT SKI LESSONS FOR EMPLOYEES

Skiing season is coming! Employees and visitors can take up the sport with discount lessons in downhill and cross-country variations of the sport.

Helen Ecker, Fermilab recreation manager, announced details. She said reduced rate lessons will be given at Villa Olivia, Elgin, starting in December. The lessons are available to employees through Fermilab's membership in the Chicago Area Recreation and Employee Services (CARES), an association of corporate and non-profit recreation managers organization.

Three five-lesson packages of downhill students, ranging from \$39 to \$45, are available; one package for cross-country skiers, will be held on three consecutive Sundays. Cost will be \$25 and \$5 equipment rental fee.

The first downhill lessons get underway Friday, Dec. 15. Cross-country lessons start Jan. 6. Call Helen at Ext. 3126 for details.

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### CHARITY DRIVE UNDERWAY

Employees can save time and money in contributing to favorite charities--payroll deduction is the way.

Fermilab's sixth annual charity drive is underway. Up to Dec. 1, an employee may designate three charities to receive gifts in 1979 through convenient payroll deduction. Pledge forms were distributed last week.

To enroll in the program, an employee returns the completed form to the Payroll Department. A carbon copy is provided for the donor's records. A minimum of \$12 per year must be deducted to participate.

Contributions will be deducted each pay period starting Jan. 1, 1979. The Laboratory forwards contributions to designated charities. Pledges for 1978 will be discontinued on Dec. 31 if not renewed. A statement listing total deductions to each contributor will be issued for income tax reporting purposes.

For more information, contact the Personnel Department at Ext. 3324.

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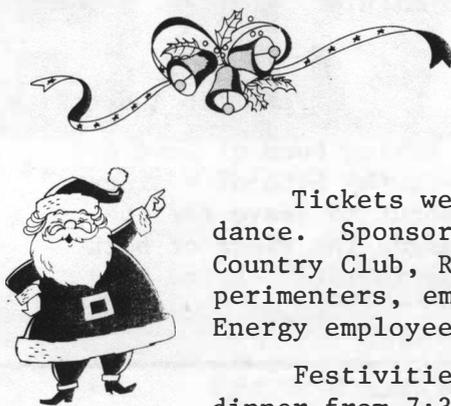
NALREC PRESENTS

ALL-LABORATORY CHRISTMAS DINNER DANCE

Friday, December 15

Fox Valley Country Club, N. Aurora

6:30 P.M. - 1 A.M.



Tickets went on sale Wednesday for Fermilab's 1978 Christmas dinner-dance. Sponsored by NALREC, the event will be held at the Fox Valley Country Club, Rt. 25, N. Aurora. Invited are Fermilab employees, experimenters, employees of subcontractors and Fermilab-Department of Energy employees and their spouses or guests.

Festivities open with cocktails from 6:30 to 7:30 p.m.; a prime rib dinner from 7:30 to 9 p.m.; and dancing from 9 p.m. to 1 a.m. to the music of the "Mello-Tones." Tickets will be \$7 per person and include dinner and two drinks. Only 450 tickets will be sold.

Deadline to purchase tickets is Dec. 1. For tickets contact NALREC representatives or dinner-dance committee members: Jesse Guerra, chairman, Proton; Jo Baaske, Payroll; Chuck Grozis, Research Services; Jean Plese, Directorate; and Pat Yost, Guest Office.

FERMILAB ART SERIES PRESENTS...

...*"A Choreographer's Showcase"* on Saturday, December 9 at 8 p.m. in the Fermilab auditorium.

Five Chicago dance groups will perform on the Fermilab stage in *"A Choreographer's Showcase."* Making a return appearance will be the Richard Arve Connection and Pascual Olivera and Angela del Moral. Debuting in a Fermilab showcase will be the Hubbard Street Dancers, the Joliet Ballet and Gregory Begley and Amy Rose.

Begley was principal dancer for the Chicago Ballet. He was the lead dancer in an October Channel 11 production of *"Frankie and Johnny."* He and Miss Rose have qualified to compete in the International Concours de Ballet in Varna, Bulgaria, next summer. The Joliet Ballet



...*Amy Rose*...



...*Gregory Begley*...

will present two Spanish dances and a comedia del arte number.

Tickets will be \$4 per person. Reservations are being accepted and tickets will be available Monday (Nov. 13). For reservations contact the Guest Office, Ext. 3124.

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VISITOR HELPS ASSEMBLE COIL

Dr. Chou Chi-kang (R), one of four scientists visiting Fermilab from the People's Republic of China, helps Hendrick Van Leesten (Accelerator Mechanics) and Dave Cosgrove (Accelerator Mechanics) install molded fiberglass insulation. The insulation is a component of an orbump magnet coil. The magnet is used for H-minus injection into the Fermilab booster accelerator. Fermilab is collaborating with and assisting in the development of an accelerator to be built in Peking.



FERMILAB INTER/NATIONAL FILM SOCIETY PRESENTS

"CLEO FROM 5 to 7"

8:00 p.m.

Friday, Nov. 10, 1978

Fermilab Auditorium

Produced mainly in the streets of Paris, "Cleo" is a moving poem of love and death. Portrayed are 90 minutes (the length of the film) in the life of a singer who learns that she has cancer and meets a young soldier about to leave for the Algerian War. The underlying theme is fear and how it changes the views of both heroine and the audience. A French/Italian production made in 1961. Rated PG.

Admission: \$1.50 for adults; 50¢ for children.

DR. LANG SAYS ...

Quit smoking for a day! Dr. Charles Lang, Fermilab physician, urges Fermilab employees and visitors who smoke to take a 24-hour break from cigarettes--Thursday, Nov. 16.

That's the date set aside nationally for "The Great American Smokeout." The American Cancer Society is the sponsor. The all-out effort to concentrate on one day is based on the idea that every smoker can quit for at least a day.

Health benefits of giving up smoking include: lowered carbon monoxide levels in the blood; symptoms of cough and shortness of breath usually improve over first two weeks; ex-smokers' death rates from coronary heart disease, chronic bronchitis and emphysema become less over time than those of continuing smokers.

Also, smoking kills an estimated 300,000 people in the U.S. each year. "Be good to yourself," Dr. Lang adds, "take the pledge to take a day off from smoking Nov. 16."

\$171,694 PAID TO ACU MEMBERS

Argonne Credit Union shareholders on record as of September 30, 1978, were paid third quarterly dividends totalling \$171,694. Dividends credited to 7,008 accounts on record as of Sept. 30, 1978, appear on statements mailed last month. According to John Chonko, ACU manager, the share dividend rate paid was 6.1 percent annually--a .1 percent increase over the previous quarter.

"This was made possible," Chonko said, "because of increased loan volume. Total outstanding loan balances have increased over \$1 million in 1978."

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GARDEN CLUB HOLDS FALL MEETING MONDAY

Past and prospective Fermilab gardeners are invited to the Garden Club's fall meeting Monday at 5 p.m. in Curia II.

The meeting is open to all interested persons. On the agenda are officers' reports, election of new officers and discussion of successes and problems.

Members interested in holding club offices should contact Alan Schiz at Ext. 4149.

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SCIENCE/ENGINEERING ENROLLMENTS STABILIZE

Enrollments in graduate science and engineering programs leveled off last fall, says the National Science Foundation.

According to an NSF survey, enrollment in graduate science programs declined by a percent in late 1977. The decline ended a period of continued growth begun in 1973.

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