

Security intensified following copper theft

An unusual call for help interrupted Saturday afternoon chores, shopping or relaxing for several Fermilab employees. On November 9, the Aurora Police Department called Fermilab for assistance in dealing with a quantity of copper metal delivered to S&S Metal Recyclers, Inc. of Aurora. The police requested that Laboratory personnel identify the material and survey it for radiation.

Subsequently, the police took an individual into custody with the charge of misdemeanor theft. Associate Director **Dennis Theriot** noted, "This is the first theft of radioactive material in Fermilab's 25 year history."

Fermilab personnel called to the scene—**Don Cossairt**, **Billy Arnold** and **Robert Kingsley** all of ES&H—confirmed that the copper was indeed radioactive. **Gary Verseput** and **Greg Falkman**, both of BS/Security, were also present. According to Don Cossairt, Head of the ES&H Section, the radioactivity of the largest piece was such that an occupational worker spending 40 hours within one foot of the piece would receive the allowable radiation dose for a year. The Fermilab Ra-

diation Guide classifies this level of radioactivity as Class 4. "The other pieces were only low level radiation," said Don.

Roger Braun and **Harold Wilkinson**, both of BS/Dist/Rcvg/Ship, transported the copper to the Laboratory for secure storage and further investigation. This was done as a protection for the public and as a governmental courtesy even though it was not clear at the time that the copper was definitely from Fermilab.

The stolen copper consisted of ten rods measuring approximately 2" x 2" x 8' and a plank measuring 2" x 6" x 5' weighing about 280 pounds.

Two days after the police call, after extensive detective work involving checking photographs and blueprints as well as consulting with members of the Research and Accelerator Division, it was determined that the eleven copper pieces were indeed Fermilab property. They came from a beam absorber, dismantled in 1986, which had been used for E605 in the Meson east beamline. A beam absorber filters the Tevatron's proton beam in order to provide an

experiment the specific particles it requires. Subsequent investigation revealed that all of the material stolen from this beam absorber had been recovered.

The copper pieces were being stored for possible future use in an area known as the Railhead on the northern portion of the Laboratory site. In addition to entering the storage building, the alleged thief penetrated two layers of eight foot fencing, both topped with three rows of barbed wire.

"We are very concerned with the persistence of the thieves and are in the process of implementing changes in our security that will preclude future occurrences," said **Jim Finks**, Head of Business Services.

Upon learning of the theft, immediate measures to improve security were implemented. Surveillance at the storage building was more than doubled; huge concrete blocks were placed in front of the two doors; and fence repair was started.

Several other steps to heighten security at the Railhead are currently being examined. These include increasing the lighting, in-

"We are very concerned with the persistence of the thieves and are in the process of implementing changes in our security that will preclude future occurrences."
— **Jim Finks**,
Business Services Head.

stalling motion detectors and other intruder sensors, replacing the barbed wire with "razor ribbon" and clearing brush and other materials from the fence perimeters. In addition to these measures, Dennis has also directed a survey be conducted to ascertain all the storage places—both indoors and outdoors—of copper and aluminum—both radioactive and nonradioactive. This will enable enhanced accountability and security.

In looking back at the events of the past few weeks, Jim noted, "I am grateful for the support from the Divisions and Sections as well as management in helping to remedy this situation."

Wilson Hall windows to receive energy-saving facelift

Storm windows are being installed on all windows in occupiable space in Wilson Hall. The project, which began November 15, is estimated to take about four months to complete.

The installation of the new storm windows, which also includes the application of solar film to existing windows, will represent a substantial energy savings to the Laboratory. "There may be some increase in the comfort level in the building, but the real significance of this project is the energy-saving factor," said **Kent Collins**, Wilson Hall manager.

Installing the storm windows will require a two stage process. The first stage involves the removal of any existing blinds which will be cleaned and repaired, washing the interior of the windows and applying solar film. The solar film, which reflects the heat load, bonds to the window through a water application process. Consequently, all furniture near the windows will have to

be pulled out of the way. After the solar film is applied and the moisture has evaporated to an appropriate level, the storm windows are then installed. The installation of the storm windows completes the energy conservation project by pro-

stalled and we ask that everyone try to be patient and cooperative," said Kent. "We admit that there will be some hassle during installation, but when the project is finished, the windows and blinds will be clean, air

"There may be some increase in the comfort level in the building, but the real significance of this project is the energy-saving factor."

— Kent Collins, Wilson Hall manager and project coordinator.

viding an insulating barrier to air infiltration.

Window installation began two weeks ago on the east side of the 15th floor. Contractors will complete the windows on each floor in a descending order. All work will be done during the normal work hours.

"We are doing everything we can to make this as painless as possible," said **Vic Kuchler**, Facilities Engineering. "We realize that employees will be somewhat inconvenienced while the windows are being in-

filtration will be sealed and the thermal quality of the windows will be improved."

In order to minimize disruptions to employees' work schedules, Kent will select a contact person on each side of each floor to help coordinate the effort. "The contractor will not remove anything from an area without permission from Kent and the floor coordinator," said Vic. Employees will be notified in advance when their areas are scheduled for installation.

The storm window installation project is being funded through the Department of Energy's In-House Energy-Management Program (IHEM). This program provides funds which are in addition to the normal operating budget for energy conservation projects. In order to receive IHEM funding, a project proposal must be submitted to the Department of Energy. "They weigh the merits of the projects against a favorable energy-saving payback," said Vic. The Department of Energy is committed to supporting energy conservation programs and has set an energy reduction goal of 10% for all DOE buildings by 1995.

Over the years, Fermilab has shown leadership and initiative in the area of energy conservation and last year was the recipient of the DOE IHEM program award for the best energy management program at a laboratory.

If you have questions, please contact Kent Collins at x4753.

Blood drive to be held at Fermilab

The Heartland Blood Center will hold a blood drive Tuesday, December 17 in the 1 West Conference Room. Donate blood and give the gift of life to someone who needs it. A single donation can produce red blood

cells, cryo and liquid recovered plasma or platelets and fresh frozen plasma.

Each person has his or her own blood group and type. The four major groups are O, A, B and AB. Addi-

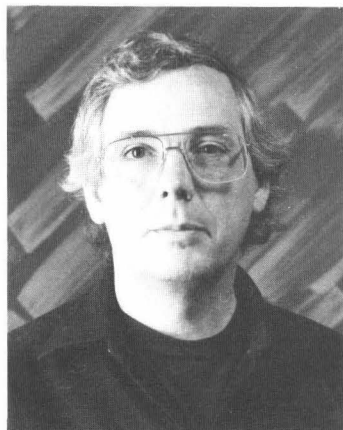
tionally, a person may be either Rh positive or Rh negative. Donations are needed from all groups.

Your contribution is an invaluable gift during the holiday season. Donors

should be in good health between the ages of 17 and 75. For more information, call x3598. Come when your schedule allows.

Staff physicists named new APS Fellows

The American Physical Society (APS) recently elected Fermilab Associate Director for Technology **Dennis Theriot** and Solenoid Detector Collaboration (SDC) Head **Dan Green** to Fellowship in its organization. The Council of the American Physical Society made the announcement at its November 3 meeting.



Dan Green

Dennis was elected "For his crucial leadership in the construction of the CDF detector," his sponsors cited. Between 1981 and 1989, Dennis served as Deputy Department Head, Deputy Operations Group Leader, Experimental Support Group Leader and during construction Deputy Project Manager of the Collider Detector Department.

Dan was elected "For his leadership in particle physics experiments including the muon system for the Fer-

"For his leadership in particle physics experiments including the muon system for the Fermilab DØ detector, the SSC Solenoid Detector Collaboration and in several physics administrative positions at Fermilab."

milab DØ detector, the SSC Solenoid Detector Collaboration and in several physics administrative positions at the Laboratory." His recent work includes conduct-



Dennis Theriot

"For his crucial leadership in the construction of the CDF detector."

ing SSC physics and serving as SDC deputy spokesperson. He has been a staff scientist at Fermilab since 1979, serving as Research Division Facilities Support Group Head from 1982 to 1984, Physics Department Deputy Head from 1984 to 1986 and Physics Department Head from 1986 to 1990. Dan's recent commit-

tee work includes the Fermilab Users Executive Committee, the Fermilab Breckenridge Workshop, the Organizing Committee for the 1990 meeting of the Division of Particles and Fields and Snowmass 1990.

Only APS members who have contributed to the advancement of physics by independent, original research, or who have rendered some other special service to the cause of science are elected into Fellowship. Less than one-half of one percent of the APS membership obtain Fellowship each year.

The March 1992 *Bulletin of the American Physical Society* will publish Dennis' and Dan's election and citation. Formal announcement of their election will take place at the 1992 Division of Particles and Fields business meeting.

I remember...



With the 25th anniversary of the Weston site selection just around the corner, *FermiNews* would like to invite all veteran Laboratory employees to sub-

mit ideas and articles for a "25th Anniversary" series scheduled to run throughout 1992. No idea is too big or too small to consider featuring it, and we welcome your story ideas.

Think back to "the good old days" and summon up a few memories that your co-workers might have forgotten over the years, or recall a bit of Fermilab folklore that the newcomers might

not know. Sure, we know 25 years is a lot of history to remember, but think of how much fun it would be to relive the early days. Maybe something along the lines of "I remember in the Oak Brook office..." or "Back when we were in the Village..."

Use the opportunity to finger an old friend or to show some never-before-published photos. Even if

we ran it in a previous issue of *FermiNews* or the *Village Crier*, remember, it's still fair game for a 25th anniversary piece.

You get the idea. Now we want to hear it or see it, so drop us a line at the Publications Office, MS 107, or FNAL::TECHPUBS.

Milestones: twenty-year service awards

NALREC news



Associate Director Bruce Chrisman presented 20-year service awards to 31 Fermilab employees at a luncheon held in Wilson Hall 1 West on November 15. The recipients were (row 1, l to r): Filip Johnson, Chuck Chizzo, Larry Rodriguez, Ed Podschweit, J. Ticku and Dave Dewitt. (row 2, l to r): Joseph Gehard, K. C. Kirksey, Buzz Rodewalt, Frank Juravic, Roy Mraz, Patrick Gorak and Eugene Beck. (row 3, l to r): D. Zafiropoulos, Ralph Ovitt, Thomas Baird, Ken Schultz, Robert Trendler, and Bill South. (row 4, l to r): Junior Jones, Steve Barath, Jeff Mack, John Reed, Bruce Chrisman, Paul Forester and Norbert Engler. (row 5, l to r): Chuck Nila, Kurt Kasules, Dan Smith, Bob Angstadt and Bob Morrison.

Thanks to all who made the November Turkey party a great success and congratulations to the lucky turkey winners.

The Children's Christmas party is this Sunday, December 8 from 1:00 to 4:00 p.m. in Ramsey Auditorium. There will be cartoons, refreshments, a special visit from Santa, plus Garfield Goose and his TV friends will perform at 2:30. Don't miss this annual holiday event. Open to children up to age 8. For further information, please contact John Satti at x3088.

We hope you have received your invitation to the Christmas Dinner dance to be held December 21 and NALREC's New Year's Eve party scheduled for December 31. Both will be held at the Fox Valley Country
Continued on page 5

In memoriam

Roberta Myers, Fermilab's English as a Second Language (ESL) teacher, passed away on Thursday, November 14.

As Fermilab's ESL teacher for over ten years, she touched the lives of countless people around the world whose stay at Fermilab was enhanced by her patient instruction and devotion to education.

Roberta was born in

Springfield, Illinois on February 26, 1917 and lived in Naperville for 40 years before moving to Yorkville in 1981. In Naperville, Roberta was a supporter of the Naperville Humane Society and the Naperville Heritage Society, to which she and her husband donated the church that now sits in the Naperville Settlement.

Roberta was a dynamic person who completed her undergraduate and Master's

degrees after raising her five children. She graduated from North Central College in 1963 and later from the University of Michigan with a graduate degree in Linguistics. Roberta is survived by her husband of 53 years, Gerald, sons Evan (Joette), Mark (Linda), Brian (Debbey), daughters Jerrienne (Donald), Holly, grandchildren Jason, Leika, James and Paul Myers and brother Joseph (Marcella Imlay) of Springfield

Funeral services were held Monday, November 18 at the Beidelman Funeral Home in Naperville. If you would like to send a card or visit the family, Gerald's address is 6650A Minkler Rd. Yorkville, IL. 60560.

Any donations made in Roberta's memory should be directed to the Naperville Humane Society, 1630 Diehl Road, Naperville, IL. 60563.

Quality corner

Linac lookin' good after cleanup

For a while back in September, it seemed like the Accelerator Division Controls Group hardware personnel were packing up and moving out. Surplus material, computer terminals and junk almost entirely blocked the loading area to the Linac on the east side facing the hi-rise. To some passersby, the area might have looked as if a high-tech flea market had pulled into town and decided to exercise squatter's rights to the pre-accelerator.

Not to worry, **Bob Ducar** (AD/Controls) told us. Rather, on Thursday, September 26, it was members of the Controls Group who undertook an area-wide clean-up effort to demonstrate compliance with OSHA general house-keeping requirements.

The first and second floors of the Linac annex saw a flurry of activity that day, Bob said. No desk, work bench or work area was left unturned (or uncleaned). Even the Controls Group vehicles got the once-over.

In the course of one day, the clean-up effort produced some startling results. "We had a pile of stuff that went to surplus," Bob said. Things that found their way out the door included white and

computer paper, excess chemicals and spray cans, more than 1,000 lbs of recyclable metals and anything that "wasn't doing any good or just taking up space," according to Bob.

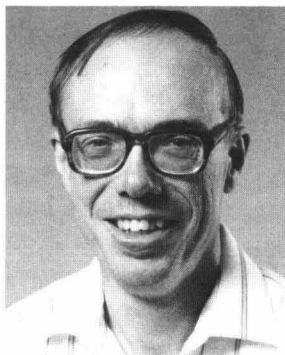
More than 1,000 items were returned to stock, 100 special or hazardous items were identified and are now being dealt with, and cleanup personnel made 15 trips to the dumpster. All together, 480 cubic feet of trash left the Linac, filling up one large dumpster.

At the end of the day, the crew met at the Village barn for pizza and refreshments.

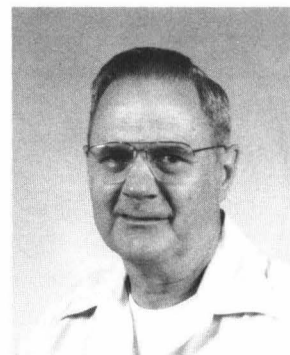
The results were well worth the time, Bob said. "Everybody really pitched in, and a lot was pitched out." The whole effort was so successful that similar cleanups are expected to take place yearly if not more often, Bob added.

The Quality Assurance and Value Engineering Office appreciates contributions to the Quality corner column in FermiNews. If you have a suggestion on how to improve the quality, efficiency, reliability or effectiveness of a Laboratory service or operation, please send it to Mark Bodnarczuk, MS 200 or FNAL::Bodnarczuk.

New Acting Deputy Head for Technical Support Section



Ray Hanft



Frank Turkot

Ray Hanft was appointed Acting Deputy Head of the Technical Support Section. Ray replaces Frank Turkot who is on a one-year assignment from Fermilab to work on the ZEUS Detector at DESY. This appointment was effective November 1.

As Acting Deputy Head, Ray will be involved with budget management, ES&H activities and Tiger Team preparations. According to Paul Mantsch, Head of the Technical Support Section, Ray will continue to be concerned with magnetic measurements at the Magnet Test Facility.

NALREC continued from page 4

Club. Send in your reservation card with your check and be a part of these two special events.

A special thanks to all who sent recipes for the Fermilab cookbook. We have quite a few, but could use more. If you would like to contribute a recipe, mail it to Nancy, MS 315 or Charlotte, MS 228. Spouses and family members are also welcome to submit examples of their culinary expertise.

The Big Powderhorn ski trip, February 21-23 is only \$165. It's a great price for a great trip. Package includes lift ticket, two nights lodging (per person, double occupancy), bus transportation with sandwiches and refreshments. For further information, contact Nancy Bartlett x2902.

The NALREC Employee Christmas party will be December 20 at 5:15 p.m. in the barn. There will be lots of raffles, music by *Crusin the Loop* and more. Further details will be in the next *FermiNews*.

Holiday entertaining tips



The holiday season is just around the corner. During this time of the year, many of us either host or attend parties. The following tips provided by the Fox Valley Chemical Dependency Consortium can help you and yours enjoy a safe, healthy and happy holiday season.

If you are hosting, remember to plan your party around a fun event. Activities can give guests a reason to put down their drinks.

Serve food. Snacks slow the rate at which the body absorbs alcohol. *Set a positive mood* by introducing guests to other people in the room. Often people drink because they don't know anyone else. *Keep the cocktail hour short.* Serve meals quickly. *Always offer non-alcoholic beverages.* Many people cannot or prefer not to drink alcohol. *Use a non-carbonated base (fruit juice or tea) for the punch.* Alcohol is absorbed faster when teamed with a carbonated

mixer. *Measure drinks.* Don't guess and don't go overboard. *Never force guests to drink.* They know their limits better than you. *Stop serving alcohol well before the party ends and serve food instead.*

The combination of time and food helps the body absorb alcohol. *Keep an eye on your guests.* If they're drinking too much, slow them down with conversation or food and offer them non-alcoholic drinks. Don't let them drink and drive; have them spend the night, call a taxi or have a sober guest drive them home.

If you are partying, remember that abstinence is always acceptable, but if you choose to drink then set limits and stick to them.

Eat food. Food slows the absorption of alcohol into the bloodstream. *Stop drinking before you leave.* Get the alcohol out of your system before you get into your car. *Drink slowly.* Sip, don't gulp. *Don't be forced into another round.* "How 'bout another?" isn't a good reason to drink. *Don't drink what you can't identify.* A bizarre potion could turn out your lights before the party is over. *Don't drink to relax.* Try sleeping instead.

Educational stocking stuffers

Here it is—your handy holiday science toy shopping guide! Maybe you were looking for gifts or stocking stuffer ideas, or perhaps you have parents with whom you'd like to share this information. Whatever the case, there is plenty of fun and real science happening when children of all ages play with these toys!

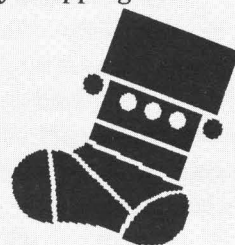
Motion and energy toys include *Puddle Jumpers*—hand-propelled plastic or wooden gizmos that teach aerodynamics and motion and *Tops*—available in many sizes and colors that spin just like you remember. *Tops* show motion, forces and angular momentum

Optics and light toys like a *Zoetrope*—a cardboard moving picture device—demonstrate persistence of vision and optical illusion while *diffraction grating tops, jewelry, pencils, glasses and ornaments* show spectra and color in addition to waves.

Magnetism and electricity toys like the *Water Watch*—a transparent watch powered by a tap water battery—illustrate conduction, ions and principles of cathodes and anodes. *Magnetic Marbles* are plastic marbles with magnets inside that demonstrate magnetic fields.

Chemistry toys like the *Moon Blob* are dehydrated plastic that "crawl" out of their container to represent phases of matter in living and nonliving things through use of observational skills. *G.U.T.S.* are super absorbing polymer tablets that grow to 100 times their original size when placed in water. *G.U.T.S.* demonstrate principles of polymers and the difference between chemical and physical change.

This was just a partial list of ideas compiled by the Education Office to help make your child's Christmas more enjoyable and educational. Many of these items are available through: American Science and Surplus Stores, Edmund Scientific, Kipp Toys Wholesalers, Klutz Incorporated, K-Mart and other department stores, Natural Wonders, local gift, grocery, drug and toy stores. A more complete shopping list and approximate item costs is available from the Publications Office. Happy holiday shopping!



Is the season getting you down?

Have you felt more anxious or irritable lately? Possibly you've gained weight, craved more carbohydrates, or even become lethargic and somewhat depressed. You know the feeling when you can't concentrate or you find that you are sleeping longer hours. Well, you are not alone with these feelings.

It's possible that you may be suffering from seasonal affective disorder, commonly known as SAD. The symptoms usually begin in October or November (depending on the individual and the climate) and often last until March or April.

This disorder usually begins in early childhood. It affects four times as many women as men. Very seldom is hospitalization required for this disorder. As spring approaches, the symptoms subside, followed by a hypomaniac mood, where the individual experiences improved creativity, decreased need for sleep, reduced appetite and a loss of the winter weight gain.—*Provided as a service by Eleanor Thomas Grumbach, Employee Assistance Program. The Employee Assistance Program helps employees find confidential assistance with personal problems that may be affecting job performance, including legal, family, marital or alcohol / drug abuse problems.*

Fermilab art gallery opens new exhibit

An exhibition of paintings by artist Martyl is currently on display at the Fermilab Gallery on the Wilson Hall second floor cross-over. The exhibit will continue through December 31.

As a young artist, Martyl's paintings and drawings were often depictions of the social conditions of the Depression, much in the tradition of American artists such as Joe Jones, originally a St. Louis painter whom she knew well. Martyl's husband, Alexander Langsdorf, Jr., is a well-known nuclear physicist who worked with Enrico Fermi on the development of the first neutron chain reactor.

By 1947, she was producing works entitled *Cyclotron* and *Radio Oscillator*. She also, however, produced landscapes and nature studies which utilized the techniques of various styles of modernism. But with time and as her work progressed, Cezanne became the artist with whom she shared, and continues to share, the greatest affinity. Cezanne's muted palette and deconstruction of the landscape into a planar surface are qualities that

can be found throughout all of Martyl's paintings, both early and recent.

In 1966, Martyl was given the opportunity to travel to Greece at the invitation of George Mylonas, archaeologist of Mycenae, to make paintings of that spectacular country. In 1969 she was invited by Robert Braidwood, archaeologist at the Oriental Institute of the University of Chicago, to visit Eastern Turkey to paint and draw the landscape.

In 1985, the Brooklyn Museum invited Martyl to join its annual archaeological excavation at the precinct of Mut in Luxor, Egypt, about 325 miles south of Cairo. This invitation recalls a series of historical events. On July 2, 1798, Napoleon Bonaparte landed his forces



Sandy Anderson (l) and Marilyn Smith view a painting from the collection by Martyl, on display now through December 31 in the Fermilab Gallery.

at Alexandria and conquered Egypt in four months. By November 1798, the French Commission on Sciences and Arts sent a delegation of scientists, artists and topographical drafters to make a study of the newly-conquered land. The exoticism of the location drew many nineteenth-century artists to record the "rediscovered" land. Delacroix, Ingres, Renoir and Matisse all travelled there and created many works based on the imagery they found.

Harper's index

Percentage of Americans who say they are "addicted" to television: 13
Number of Americans treated last year for bowling-related injuries: 22,515
Number of last year's NEA grant recipients who perform mime: 5

Cla\$\$ified ad\$

Automobiles

1989 Hyundai, excellent condition, 19k miles, 5-spd., blue, 4-dr., AC, AM/FM cass., pwr. sunroof, \$4400. Call 708-897-9494.

Miscellaneous

Blaupunkt AM/FM cassette receiver, Portland SQR 26 model with built-in Dynamic Noise Reduction (DNR) and many other features. DIN design for easy installation. Also has digital clock. Asking \$125. Call Fred at x4364.

Panasonic 19" color television, perf. cond., 5 yrs. old, block channel programming, remote, R-tune, sleep timer, mute, cable

ready. Call Matt at x3005 or 708-393-0330.

Space heater, 45,000btu, natural gas burner, \$20. **6 string accoustic guitar** with case, made by Hohner, very good cond., \$50. Call Ed at 708-690-1145 after 5.

Atari Lynx portable color video game system with AC adaptor and com-lynx cable, great X-mas gift, \$89. **Lynx game cards** (Klax, California Games, Blue Lightning, Slime World) \$19 each or 4 for \$72. **Many Atari ST software packages** (orig. disks in orig. packaging with instruct. Call for list). Sell or swap. Also looking to buy Atari

8-bit cartridges and 8-bit/ST disk drives. Call John at x4774.

Futon couch, under 1 year old, full size (frame, mattress and cover included), \$300 o.b.o. Call Ryan at x2811 or 708-925-8178.

Rowing machine, like new, asking \$35. **Radiant heater** on wheels, like new, asking \$25. Call Harold at x3575 or 708-851-5041 after 5.

Shotgun, J.C. Higgins (Sears) 20 gauge double barrel "side by side" model 101.540 with a 2 3/4" chamber. In good cond. Asking \$250. Call Troy at

x3542 or 815-744-2339.

Gas dryer, never used, \$300. Call x3492 or 708-859-8699.

Real estate

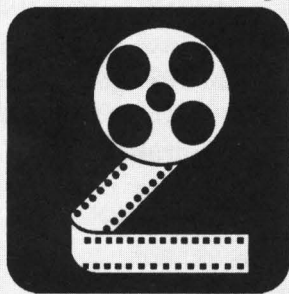
Large studio apt. for rent in Aurora, \$325 per month. **One bdrm. apt. for rent** in Aurora, \$400 per month. Call 708-859-8699 after 5.

Wanted

Have a PC XT or AT that you don't use anymore? Want to sell/donate it for a good cause? Call x2394.

Wanted TI 99/4A or 99/8 home computer, cartridges and peripherals. Call Walt at x3893.

International Film Society



The Fermilab International Film Society will meet in the next few weeks to prepare for next season's film presentations. If you are interested in participating, please contact Paula Garrett at x3401 or FNAL::PGARRETT.

January's screenings will be shown in Ramsey Auditorium at 8 p.m. Admission costs \$2.

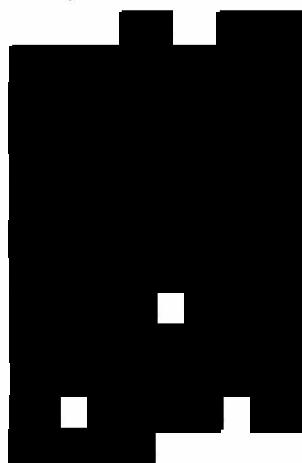
Friday, January 10
Pelle the Conqueror

Searching for opportunity, a Swedish boy and his aging, destitute father (Max von Sydow) go to a farm in Denmark where they are ill treated. Best Foreign Film. Billie August, dir. Sweden, Denmark, 1988, 138 minutes.

Friday, January 24
Story of Women

Isabelle Huppert portrays a working class housewife who performs abortions to provide for her family in German-occupied France. Based on a true story of one of the last women to be guillotined. Claude Chabrol, dir. France, 1988, 108 minutes.

Congratulations to:



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The deadline for the Friday, December 20 issue of *FermiNews* is Wednesday, December 11. Please send your article submissions or ideas to the Publications Office.