

FermiNews

The Newsletter of the Fermi National Accelerator Laboratory

PRODUCING "THE BEAM"

By Donald Sena, Office of Public Affairs

The most thrilling moments of scientific discovery at Fermilab do not happen in the Accelerator control room; that glory is saved for the detectors. However, there would be no discoveries at all without the critical component the Accelerator team provides—the beam.

The beam, a stream of subatomic particles forced into dramatic collisions, is the main tool used to get to the heart of the universe's matter.

"In the case of the top quark..., not many events can occur even in a particle accelerator. The ability to see an occasional event is [fairly] rare, and so you need lots and lots of beam and you need the beam to be there continuously. Without it...the physics would be at a very, very slow rate; it would take literally years to...gather the data, and in some cases, [experiments] couldn't be done," said BOB MAU, department head, Accelerator Division Operations. "Without the

particle beam, there are no events and no apparatus will detect anything. It's really that simple."

The last accelerator run shut down in August, primarily to allow for Main Injector construction. The shutdown also provided a window for accelerator maintenance, which ranged from replacing a vacuum valve, a four-hour job, to replacing four VBump magnets and doing construction work on the beam pipe, a project that took about 10 days.

Accelerator shutdowns typically range from one day to several months for upgrades and maintenance.

When maintenance is complete, Accelerator Division personnel perform complicated and orchestrated tasks to get the beam operating again.

FROM SHUT DOWN TO START UP

First, the Laboratory chooses a date, albeit a soft one, for experiments to begin; this date sets in motion nu-

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merous tasks that eventually lead to collisions at the detectors.

Soon after the date is set, workers turn on the water system and purify the water. Many of the magnets and power supplies are water-cooled, and the water must be as pure as possible. Conductive water, like the kind in homes, can short out the magnets.

Accelerator staff then secure and power up the Preaccelerator, Linac and Booster ring. To secure beam enclosures, operators walk the areas looking for workers. Safety personnel hide dummies in the enclosures to ensure a thorough search; if the team misses a dummy, they search the entire area again and possibly receive more training. Workers have missed only three dummies in 24 years.

To "power up" the various systems, workers make sure all components,

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PRODUCING "THE BEAM"

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such as magnets, have been installed and work properly.

Operators and physicists then inject beam into the Preaccelerator, Linac and Booster ring. Soon after, they secure and power up the Main Ring and inject beam.



Operators in the Main Control Room use computers to monitor and control the various stages of the accelerator.

Meanwhile, attention also focuses on the Tevatron. Two weeks before the Tevatron is turned on, Accelerator staff cool it down. The superconducting magnets must be very cold—about 452 degrees below zero Fahrenheit—in order to produce a strong magnetic field with minimal electrical resistance. Operators and

physicists then inject beam after the Tevatron reaches the proper temperature.

Around this time, the Antiproton Source is activated, allowing for the creation and accumulation of antiprotons that are used in collisions, and the process is complete.

THE PRESENT TIME

At this writing, beam has been injected into the Booster. Also, the Tevatron has started to cool down. Several factors affect the next stages.

A possible impasse in budget and reform negotiations between Congress and President Clinton may hold up the fiscal 1996 budget, which could affect the Laboratory's timetable.

Also, the most recent phase of Main Injector construction will end in mid-October, and antiprotons cannot be produced until that work is complete.

Mau emphasizes that the success of any start-up directly corresponds to the thoroughness of maintenance performed during the shutdown.

"Many of the engineers and technicians are...double-checking the work they do to make sure it's really ready to go," said Mau. "If everybody does that, and does it well, start-up activities are much easier."

And Mau expects his crew will soon be back producing the Tevatron's beam with little glory and few accolades—just reliability. ■

STOPGAP FUNDING IN PLACE

On Saturday, September 30, the last day of FY95, President Clinton signed stopgap legislation authorizing continued funding for federal government operations through November 13, 1995. This continuing resolution gives the Congress and the Administration six weeks to reach agreement on the 13 spending bills that will fund government operations for FY96, including the appropriation for Energy and Water Development that funds Fermilab.

The stopgap bill specifies a funding level equal to the average of the House and Senate appropriations bills, minus five percent. Following announcement of the legislation, the Department of Energy has made allocations to Fermilab for operations through November 13. Unfortunately, this level of funding will not permit the Laboratory to move forward with completion of the fixed-target experiments, Collider upgrades, and Main Injector construction as planned. Laboratory plans had called for obligating roughly one fourth of Fermilab funds for the fiscal year in the first six weeks. Fermilab and DOE officials are currently discussing possible tradeoffs among the options of operating the Collider, upgrading the detectors, and continuing magnet production for the Main Injector. As of this writing, the Laboratory is issuing purchase orders only for essential operating expenditures. Currently, Fermilab is issuing no new equipment purchase orders.

A YEAR IN THE LIFE OF FERMILAB'S PRAIRIE



Lead Groundskeeper Mike Becker and Wheaton volunteer Candice Taylor harvest seed during the 1994 Fermilab prairie harvest.

By Donald Sena, Office of Public Affairs

Racing flames. Soft green regrowth. Brilliant flowers. Enthusiastic volunteers harvesting seeds—all part of the annual cycle of life on Fermilab's prairies. However, don't forget weeding, surveying and seed cleaning.

Seed cleaning? Excitement levels may drop off with these activities, but they are still vital to the acres of grasslands at Fermilab.

It takes multifarious tasks to keep the prairie thriving, and the Roads and Grounds Department works hard to keep up with the demands of the grasslands through the seasons. "It's a continuous learning process," says BOB LOOTENS, lead groundskeeper, when asked about his involvement in the prairie's life cycle.

Winter, the dormant season, is the prairie's "downtime." But workers are busy cleaning seeds, separating the seed from the chaff to make planting easier.

Early spring brings the first burn. Lootens and his crew set large areas afire to promote growth of deep-rooted native plants and retard the shallow-rooted non-native species. Lootens admits

burning is one part thrilling and two parts nerve-racking; a 50-acre tract can burn up in only 10–15 minutes.

The crew then plants seeds to enrich existing tracts and begin new prairie plots. Soon after, the prairie makes its spring debut.

Asked about his favorite part of the cycle, lead groundskeeper MIKE BECKER says, "...when the prairie emerges in the spring and those flowers come up."

In summer, with the prairie in full bloom, weeding is a constant chore. Surveying allows the crew to find what species are growing and where they need to plant next spring. Recently, groundskeepers were excited to find Bottle Gentian, a plant indicating a healthy prairie, on a tract.

The fall brings the seed harvest, performed both mechanically and by volunteers during the popular public seed gathering. This year's public harvest will take place on October 7th and 28th from 10:00 a.m. till 2:00 p.m.

Soon after the harvest, the first frost hits, leading to the fall burn, and then it's back to the dormant season. Lootens and Becker said they're in constant contact with other area prairie-keepers through the year, exchanging expertise, advice and seeds.

...So, as the blazes of the burn season light up the autumn sky, remember: it's just one small part of a prairie's life. ■

DOE Appoints Pat Rapp as Fermilab Monitor

JOHN O'FALLON, director of the Department of Energy's Division of High Energy Physics, announced the appointment of PATRICK D. "PAT" RAPP as DOE laboratory monitor for Fermilab on June 15, 1995. In this liaison position between the Laboratory and DOE-ER, Dr. Rapp replaces GORDON R. CHARLTON, who now serves as monitor for Argonne National Laboratory and Stanford Linear Accelerator Center.

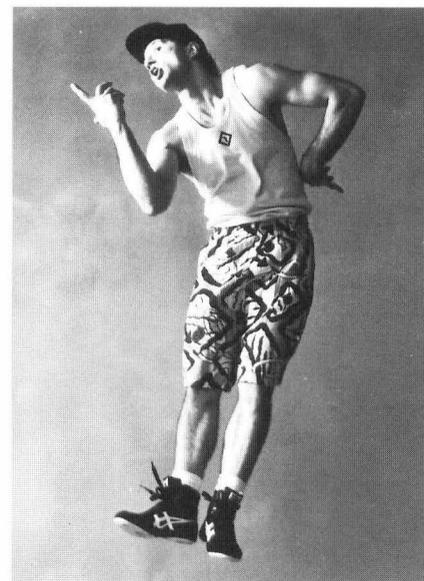
Dr. Rapp's connections with Fermilab go back a long way. "I taught Pat

when he was an undergraduate at Columbia College," said Fermilab Director JOHN PEOPLES. Dr. Rapp went on to earn a Ph.D. in high-energy physics from Columbia University, where he did graduate research with Fermilab Director Emeritus LEON LEDERMAN on muon scattering experiments. From 1976 to 1982, he worked at Fermilab as a post-doctoral physicist on experiments with Fermilab physicist ERNEST MALAMUD.

Most recently, he served as DOE laboratory monitor for Brookhaven National Laboratory.

People Events

FERMILAB ARTS SERIES PRESENTS



PETER PUCCI PLUS DANCERS
SATURDAY, OCTOBER 14, 1995

"...Mr. Pucci draws his audience into the world of a choreographer-performer of unmistakable intelligence, integrity and sensitivity."—Jennifer Dunning, *The New York Times*

Peter Pucci Plus Dancers portrays the human experience through the form of dance—from the complete jubilation of simply being alive to the poignant beauty and sadness of love. Experience Peter Pucci Plus Dancers when they visit Fermilab's Ramsey Auditorium on Saturday, October 14, 1995 at 8 p.m. Please note that within the performance there are will be two short segments of two works containing nudity.

For nine years a principal dancer with Pilobolus Dance Theatre and a guest artist with numerous ballet and modern dance companies including The Joffrey Ballet ("Billboards" to music by Prince), Peter Pucci has directed and choreographed for his own remarkable company, Peter Pucci Plus Dancers, since 1986. The company has thrice performed in New York as part of The Joyce Theater's Altogether Different Festival and at Lincoln Center's Serious

Fun Festival. The company has toured extensively throughout the United States and Europe, and has twice been presented on public television. Pucci has set repertory on numerous ballet and modern dance companies. Most recently he has created two new ballets for The Joffrey Ballet, "Moon of the Falling Leaves" and "Willing and Able," the closing section of Joffrey's "Billboards."

Peter Pucci Plus Dancers was presented by the Joyce Theatre in a full week of eight performances in April, 1994. Highlighted by two world premieres, three commissioned scores, live music, and sold-out houses, the season garnered wide critical and popular acclaim.

Peter Pucci Plus Dancers performs at Fermilab's Ramsey Auditorium

on Saturday, October 14 at 8 p.m. Tickets are \$15. For tickets and more information call the box office at (708) 840-ARTS.

NOTICE

The program to be performed by Peter Pucci Plus Dancers includes two short segments containing nudity. Should you find this objectionable please contact the Fermilab Arts Series box office (840•ARTS) to return your tickets.

ARIANNA QUARTET
SUNDAY, OCTOBER 8, 1995

The Arianna Quartet concert will be held on Sunday, October 8 at 2 p.m. Tickets are available only at the door and are \$5. Children under 12 are free. The program includes music by Mozart, Ralph Shapey and Ravel.

Congratulations!

Caroline and WADE MILLER (RD/Radiation Safety Group) on the birth of their daughter Sarah Jeanne Miller. Sarah was born at Silver Cross Hospital in Joliet on September 5, 1995 at 1:46 a.m. She weighed six pounds, eight ounces and was 20 inches long. Sarah was welcomed home by big brothers Alan, age 5 and Eric, age 3.

GIVE FROM THE HEART

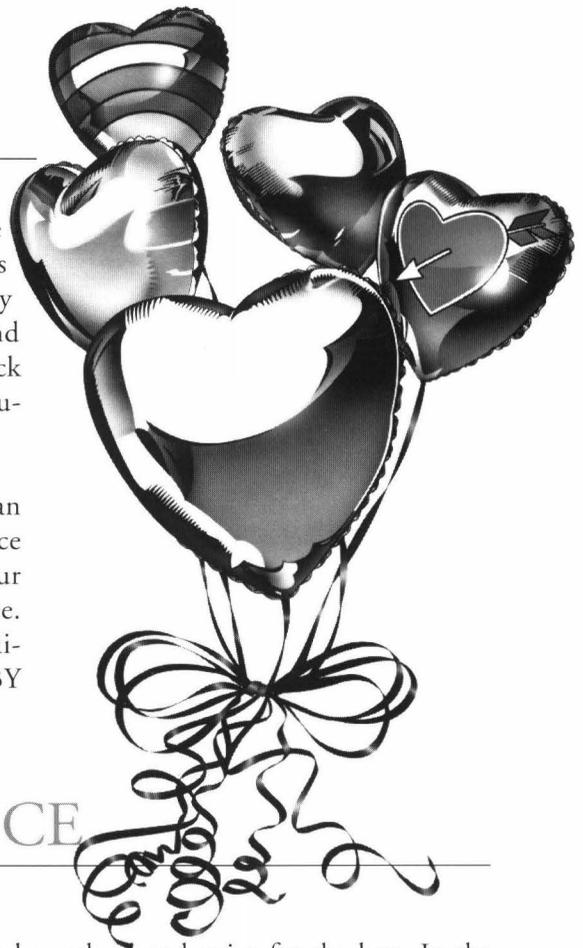
TAX-FREE PAYROLL DEDUCTIONS

As an employee of Fermilab, you have the opportunity to contribute by payroll deduction to one, two or three charities of your choice. Your participation is completely voluntary.

To participate, a contribution of at least \$26 for one charity and \$39 for two or more charities must be pledged. The charity must be ap-

proved by the Internal Revenue Service. The payroll deductions you designate will be made every pay period and will cease at the end of the calendar year. Your last check stub will show your total contributions for income tax purposes.

Please think about how you can help the charities of your choice during the upcoming year. Your contributions do make a difference. If you have questions, or need additional information, contact RUBY COILEY at x8365.



YOU CAN MAKE A DIFFERENCE

The Fermilab Equal Opportunity Office in partnership with the Chicagoland Chamber of Commerce is seeking volunteer speakers from the Fermilab community to help inspire young people through the Youth Motivation Program.

With just a few hours of your time, you can make a difference in the life of a

young person who needs a strong role model for success. As a volunteer, YMP will send you into the classrooms of Chicago public high schools where you will speak with students and about their futures and the importance of education.

As a volunteer, your encouragement may inspire students to work hard, stay in

school and strive for the best. In the process, you will be rewarded with the satisfaction of knowing that you have contributed to the future of your community.

If you are interested in becoming a YMP volunteer, please contact RUBY COILEY at x8365.

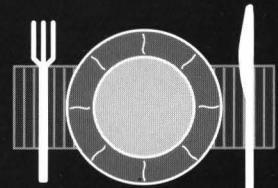
Harper's Index

Percentage of Americans who say that journalists are more cynical than other professionals: 45

Percentage of journalists who say this: 54

Chez Léon Menu

Lunch (Wed) \$8.00 • Dinner (Thurs) \$20.00
Reservations: x4512



Wednesday, October 11 • Cheese fondue, mixed lettuce with raspberry vinaigrette, pear tart

Thursday, October 12 • Potato and celery root soup, scampi, spaghetti squash, sauteed spinach w/lemon, garlic & pine nuts, pear and almond strudel

Wednesday, October 18 • Bouillabaisse, autumn root salad, chocolate hazelnut mousse

Thursday, October 19 • Sancocho, red snapper filet w/curry sauce, rice & beans, vegetable of the season, coconut cake w/caramel rum sauce

BROWN BAG SEMINAR

Katherine Huss and Donna Bellafiore will present a talk titled "Exercise, Depression and Mood Enhancement" at a Brown Bag seminar to be held October 18, 1995 in 1 West at noon. The presentation will include signs, symptoms and general causes of depression, treatment, and the benefits of aerobic exercise and strength training.

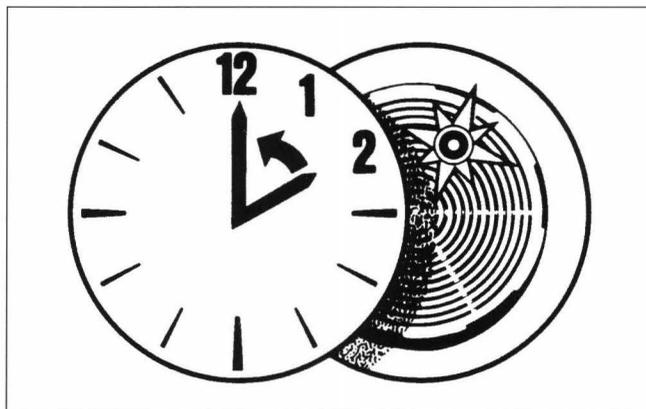
Katherine Huss is a personal exercise consultant. She is currently program director at the Corporate Fitness Center in Lisle and is a personal trainer for a private Chicago-based in-home fitness company. She also provides exercise training for physicians attending the Osler Institute. Recently, Katherine was recognized in *Chicago Woman* magazine as "a personal trainer to a major Chicago network news anchor."

Donna Bellafiore is a licensed clinical social worker and a certified alcohol and drug counselor and divorce mediator. She is in private practice with DRB Alternatives, Inc. in Naperville. Donna works with children, adolescents, adult couples and families. Her focus is on mental health maintenance and wellness. Donna was recently nominated as a "woman leader in Naperville" in recognition of her achievements in the field of social work.

FLU SHOTS AVAILABLE

Flu and Tetanus immunizations will again be offered by the Visiting Nurses' Association on November 1, 1995. Further information regarding appointments will be published in the next issue of *FermiNews*.
—Medical Office

CHANGE YOUR CLOCK, CHANGE YOUR BATTERY



In the United States, a residential fire occurs about every 66 seconds, with the peak time for home fire fatalities between 2:00 a.m. and 5:00 a.m. A working smoke detector cuts the risk of being injured or dying in a home fire by nearly half. It provides an early warning and the critical extra seconds to escape.

Non-working smoke detectors are a factor in approximately 3,800 deaths and 75,000 injuries caused by home fires each year. Smoke detector maintenance is one of the simplest, most effective ways to reduce home fire deaths and injuries.

October 29, when you turn back your clocks, take an extra minute to install fresh batteries, and vacuum or blow out any accumulated dust in your smoke detector. Then push the test button to make sure that the smoke detector is working.—
Steve Lusted, Fire Prevention Officer, Fermilab Fire Department

Caution Please!



During the fall, Fermilab's deer herd becomes more active and mobile. Please exercise caution when driving on site. To help avoid the possibility of an accident, watch ahead for deer while you are driving. If you see a deer cross the road or move from the roadside, be alert for another one. Deer may travel alone, but often they are seen in groups. Many vehicle-deer collisions occur within the first two hours after sunset. When driving at night, look ahead and to the side of the road for shining eyes. These can be seen before you spot the animal. If you do hit a deer, call x3414 and report the accident to Security.

HARVEST VOLUNTEERS NEEDED



Over 1000 acres of tallgrass prairie have been reconstructed at Fermilab.

Volunteers are needed on Saturday, October 7 and Saturday, October 28 to help harvest the Fermilab prairie.

Harvesting will take place from 10:00 a.m. until 2:00 p.m. on both days.

Wear field clothing, bring pruning shears and paper grocery bags. Follow the onsite directions to the harvest sites. Refreshments will be provided.

In case of bad weather on the scheduled dates, call the Fermilab switchboard at x3000. For further information, call the Office of Public Affairs at x3351.

GERMAN CLASSES

There is still time to join a German class. Angela Jöstlein teaches beginner classes on Tuesdays at 4:30 p.m. and advanced classes on Tuesdays at 5:45 p.m. Classes meet in the conference room at 20 Neuqua, just outside of Lab 7, across from the gym. If you have questions, call Hans at x4546 or Angela at 708-355-8279.

IN MEMORIAM

EUGENE BECK, Senior Technician, Physics Section, passed away on Saturday, September 23, 1995, at his home in North Aurora. He was 62.

Gene was employed at Fermilab for 25 years. Over the years he made many friends. He will be remembered for his outgoing personality and quick sense of humor.



Gene attended the University of Arizona and majored in fine arts. He was a gifted artist, who enjoyed oil painting and sketching. He also enjoyed gardening and reading and was an avid fisherman.

He is survived by his wife GLORIA BECK, who is retired from the Laboratory, and a brother and sister.

A memorial service to celebrate Gene's life was held Friday, September 29 at Yurs-Peterson Funeral Home in Batavia. Cremation took place at River Hills Memorial Park in Batavia. Contributions may be made in Gene's name to charities and organizations of your choice.

Lederman Award Winner



ALFRED B. U'REN is the 1995 recipient of the Leon M. Lederman Award. The award is sponsored by the Mexican Association of Physics Teachers and is given each year to an undergraduate physics student. The purpose of the award is to recognize achievement and to provide the recipient with a research experience. Alfred's research experience brought him to Fermilab for 14 weeks. During his stay, Alfred worked at DZero under the supervision of HERMAN HAGGERTY. As part of his research, he assisted with the design modifications for data acquisition electronics for the Muon group. Alfred is a student at Universidad Autónoma Metropolitana in Mexico City, Mexico.

FALL AND WINTER RECREATION PROGRAMS

FERMILAB REFEREED WINTER VOLLEYBALL LEAGUE

League play begins October 23. Captains meeting will be held October 6 at noon in the Atrium. Games are held on Monday nights in the gymnasium. Interested persons/teams contact Mark Nylund, almond::nylund@fnal.fnal.gov or Recreation Office, x2548. Current Recreation Facility membership required.

WINTER DOUBLES TENNIS LEAGUE

Games are held on Sundays from 4:00-10:00 p.m. (partners are randomly chosen each week). Play will begin on October 22. Registration deadline is October 16. For more information contact Steve Kuhlmann, fnald::kuhlmann or Recreation Office, x2548. Current membership required.

TAE KWON DO —THE KOREAN ART OF SELF DEFENSE

Classes are held on Monday, Wednesday, and Friday from 5:00 p.m. to 6:00 p.m. in the Recreation Facility gymnasium. The cost for each 10-week session is \$40.00. To register contact Al Haugen at the Recreation Facility during class hours. Students must provide their own uniform. Current membership required.

FERMILAB WINTER BASKETBALL LEAGUE

Games will be played on Thursday nights in the gymnasium. Play begins October 26. Captains meeting will be October 12 at noon in the Atrium (rosters will be due). Teams, individuals interested in playing con-

tact Denise Bumbar at x8277 or Recreation Office, x2548. Current membership required.

STEP/AEROBIC CLASS

Classes are held Monday and Wednesday, 5:30-6:30 p.m. in the Recreation Facility. October 2 - November 22. Cost \$40.00. Registration and payment must be made 24 hours prior to the start of the class in the Recreation Office, WH15W or send your name, name of the class and check (payable to Bod Squad) to MS 126. Current membership required.

MUSCLE TONING CLASSES

Do you want to tone up those abs,

strengthen your arms, reduce those hips, and slim down your thighs? Muscle toning classes are held on Tuesday and Thursday, 5:30-6:30 p.m. in the Recreation Facility. Classes include stretching, floor exercises, and upper body strengthening. Open to men and women. Cost is \$40.00 for each eight-week session. Schedule: October 3 - November 30, December 5 - February 8, and February 13 - April 4. Registration and payment must be made 24 hours prior to the start of each session in the Recreation Office, WH15W or send your name and check (payable to Bod Squad) to MS 126. Current Recreation Facility membership required.

Village gets energy-efficient face lift!



New energy-efficient thermally insulated vinyl windows and insulated siding were installed in the Sauk Circle houses and the Village houses. The houses were sided in the traditional Fermilab colors of National Blue, Aqua Blue, Fire Hydrant Red and Safety Orange in accord with a master color plan developed by ANGELA GONZALES (Director's Office) originally in 1970. The total of over 100,000 square feet of insulated siding was installed in 10 days by 6 separate siding crews under the supervision of JOHN BARRY and DAN LEE of the Accommodations Department. Pictured above, John (driver) and Dan used hay wagons and farm tractors to expedite the daily materials delivery to each job site.

NALWO INVITES YOU

All women associated with Fermilab (wives, users, employees, guests) are cordially invited to participate in the National Accelerator Laboratory Women's Organization. We especially encourage visitors from afar both to join our activities and suggest ways that we can enhance your stay at Fermilab.

NALWO sponsors regularly scheduled activities and occasional special events.

INFORMAL GATHERINGS

Every Thursday morning there is an informal gathering for refreshments and conversation in the Users Center from 10:00 a.m. until noon. We encourage foreign guests to come and practice speaking English, ask questions about living in this area, and meet new friends.

POTLUCK DINNER

Approximately every six weeks, NALWO hosts a potluck dinner in the Village Barn. Each family or person brings a dish to share and everyone gets a chance to taste the many different foods. Desserts are provided by the NALWO officers.

PLAYGROUP

Playgroup is a cooperative organization of mothers with pre-school children. The group meets three mornings each week at the Children's Center from 9:00 a.m. until 11:30 p.m. Newcomers and people only visiting for a short time are always welcome to join. The cost is \$24 for three months. Mothers can have some "blissful child-free time" while the children play together. Each mother spends a little time each week supervising at Playgroup.

FOLK DANCING

The International Folk Dancing group meets every Thursday evening, and the Scottish Country Dancing group meets every Tuesday evening. Both are held at the Village Barn, and the music, exercise, friendship, and dances are varied and wonderful. Dances are taught starting at 7:30 p.m. and requests are honored during the evening. Beginners, novices and experienced dancers are always welcome.

SPECIAL EVENTS

NALWO also offers many other special activities including cooking demonstrations, luncheons, day trips to interesting places in Chicago (museums, parks, ethnic neighborhoods, architectural walks, boat trips), crafts workshops, lectures, and musical presentations. Most of these programs are presented by NALWO members, and they demonstrate the variety of interests and the many talents and skills of Fermilab women. Suggestions and ideas are always most welcome.

We announce our special events by publishing a newsletter, posting information in the FNAL.EVENTS section on the Lab's WWW pages, articles in *FermiNews*, and putting up posters.

Please come anytime! For further information, call SELITHARAJA, 305-7769 or see JUDY BOOTH at WH1E for current bulletins.—*Sue Mendelsohn*

NEW IN THE STOCKROOM

The following items can now be obtained from the stockroom:

1218-1200 Washers, lock, AISI 18-8, stainless steel, Foremost Fastener Company, P/N 2-1278B-A2, M-2.

1218-1240 Washers, lock, AISI 18-8, stainless steel, Foremost Fastener Company, P/N 6-127B-A2, M-6.

1218-1280 Washers, lock, AISI 18-8, stainless steel, Foremost Fastener Company, P/N 10-127B-A2, M-10.

1305-0510 Book, computer operations, *Scientific Engineering C++* by Horstmann, P/N 0471594849.

1780-0585 Tape cartridge, data, for media recognition system, DDS-90, size 4mm x 90m long.

OCTOBER WELLNESS WORKS PROGRAMS

- Wednesday, October 11 - Fire Safety & Prevention, Chief Steinhoff, 1 West Conference Room, noon - 1:00 p.m.
- Tuesday, October 17 - Blood Pressure Screening, Users Office, WH1E, 11:30 a.m. - 1:00 p.m.
- Wednesday, October 18 - "Exercise, Depression & Mood Enhancement," Katherine Huss & Donna Bellafiore, 1 West, noon - 1:00 p.m.
- Thursday, October 19 - "Nutrition & Your Heart," AMA, 1 West, noon - 1:00 p.m.
- Monday, October 23 - "Street Smart/Street Safe," Deputies Dean and Mary Beth Sloggett, 1 West, noon - 1:00 p.m.

CLASSIFIEDS

■ VEHICLES

1991 Ford Mustang 5.0, emerald green, 5-speed. Full 2 1/2" exhaust including Mac headers; 3.73 gear. Various other performance options. Newer BFG Z-rated tires; 42k miles. Excellent condition, \$9,000 o.b.o. Call 708-665-1951.

1990 Jeep Wrangler, navy blue, 6 cyl., 5-speed, AC, alarm, alloy wheels, JVC detachable stereo/cass., roll bar speakers, soft/bikini tops, mint condition, from Texas, 57k miles, \$10,500 o.b.o. Call Sandy at x4171 or 708-323-9381.

1989 Mercury Sable Wagon, 75k miles, gold, power seats/windows/locks. Good condition, \$5,100. Call Frank at 708-264-1921.

1988 Dodge Caravan, auto, AC, AM/FM radio, 104k, good condition, \$4,750 o.b.o. Call Greg Wojciechowski at x2719 or 708-789-9202 evenings.

1988 Ford Bronco II XLT, 4 wheel drive, 5 speed, 62K miles, air, power windows & door locks, AM/FM stereo/cassette, tilt wheel, cruise control, luggage rack, running boards,

cargo cover, new tires, exhaust & battery. Clean, little rust. \$7000. o.b.o. Call x2279.

■ MISCELLANEOUS

Zenith 25-inch console color TV with remote (35" x 18" x 30"). Excellent condition, great picture and sound. Will deliver within Fox Valley area, \$100. Call 708-406-9848.

Two end tables, hexagon shaped, dark pine, good condition, \$50 for both. Call Rich at x3880 or 708-690-1691.

1987 MasterCrafter 17' fiberglass Pro-Bass boat and trailer, 50 HP force, swivel seats, 2 live wells, 2 depth finders, floor controlled trolling motor, well kept, reversible deck converts to seating, swimming ladder, black metal flake, \$4,200. Call Frank at 708-264-1921.

Miscellaneous items: Computer (286) IBM w/special bios, 100M IDE HD, mouse, Herc, mem ext, perfect for terminal and word processing and more; Yorx Music Center; rocking chair; barstool; 2 rugs; telephone; clock radio; blanket; iron; toaster; dishes; etc. Call Istvan at x8195 or 708-416-8192.

■ REAL ESTATE

Townhouse for sale: 3 bedrooms, 2 bath, attached single family home in Warrenville's Thornewild subdivision. Two miles east of Lab off Rte. 59 and Rte. 56. Neutral decor. Kitchen recently updated. Lots of upgrades. Available in mid-winter. Listed for \$100,000. Call Lisa for an appointment at 708-393-3819 or page 708-722-4068.

Brick and cedar home for sale. 3 bedrooms + den, 2 baths. Gas fireplace in family room, AC and 2 car garage. Newly remodeled. Paved drive and walk. Leaded glass entry. Cedar privacy fence. Close to shopping, schools and 10 minutes from Lab. 1121 Hill Rd, Geneva, \$176,900. Call Gerry at x3930 or 708-232-4061.

■ WANTED

Wanted: Interactive, qualified child care sought for a lively, pleasant nine-month-old girl. Needed one day per week (Tuesday, Wednesday or Thursday). Position open now until mid-December. Hours needed 9:30 a.m. - 5:30 p.m. Salary negotiable. English fluency desired. References please. Call Nicole Jordan at 708-393-3947.

FermiNews

*The Newsletter of the
Fermi National Accelerator Laboratory*



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The deadline for the
Fri., October 20, 1995
issue is Wed., Oct. 11.
Please send your article
submissions or ideas to
the Publications Office.

