

FermineWS

FERMI NATIONAL ACCELERATOR LABORATORY

Main Injector Construction Begins

A groundbreaking ceremony will be held on March 22 to officially herald the construction of Fermilab's newest accelerator, the Main Injector.

Over the past few years, you have heard a great deal about the Main Injector Project. It has been called the "centerpiece of Fermilab's initiative for the 1990s" and hailed as the scientific tool that will take us into the 21st Century. But many of you may still be asking, "What is the Main Injector and why are we building it?"

The Main Injector is an accelerator designed to carry out in a more efficient manner the functions currently being provided by the Main Ring.

Through the 1970s the Main Ring was the primary high-energy-physics-producing accelerator at Fermilab. With the construction of the Tevatron superconducting accelerator during the early 1980s, the Main Ring was reconfigured to provide support for the Tevatron-based collider and fixed-target programs. This reconfiguration included the addition of overpasses around the B0 and D0 interaction regions and the addition of several new extraction areas required for operations with antiprotons. According to **Steve Holmes**, head of the Accelerator Division, these modifications had the effect of reducing the available aperture in the Main Ring to the extent that today the Main Ring represents the primary bottleneck in the delivery of high-intensity proton and antiproton beams to the Tevatron, and in the delivery of protons onto the antiproton production target. The Main Injector will replace the Main Ring and remove this bottleneck.

The Main Injector will allow the production of about four times as many antiprotons per hour as are currently possible using the Main Ring and will have the capability of delivering three times as many protons to the Tevatron. Additionally, the Main Injector will support the delivery of very intense proton beams for the use of state-of-the-art studies of CP violation and rare kaon decays and for experiments designed to search for transmutation between different neutrino generations. Low-intensity proton beams emanating from the Main Injector will support test and calibration beams required for the development of new experimental devices that will be required

both at Fermilab and at the SSC Laboratory.

When complete, the Main Injector will greatly enhance the capability and versatility of the Tevatron, currently the highest-energy accelerator in the world. When the Main Injector comes on line, physicists working at Fermilab will be able to do as much research in one year as they now do in five. The new accelerator will significantly increase the number of particles that collide at high energy. Since physicists are searching for extremely rare events and exotic particles, the more collisions the better. In addition, the Main Injector will allow the simultaneous running of fixed-target and collider experiments—something not possible with the Laboratory's current configuration of accelerators.

The Main Injector will be constructed tangent to the Tevatron in a separate tunnel on the southwest corner of the Fermilab site. The base of the tunnel will be buried approximately 27 feet below ground and covered with about 26 feet of earth shielding. The accelerator will be roughly half the size of the existing Main Ring—about 2 miles in circumference—yet will boast greatly improved performance.

The Main Injector will be built using 344 conventional iron-core magnets. Many of the technical components of the Main Ring—such as power supplies, rf systems, correction magnets, quadrupole magnets and diagnostic devices—will be re-used in the new accelerator. Fermilab's Main Injector should become operational in early 1997 at an estimated cost of \$217 million which is a small fraction of the cost to build the Tevatron accelerator complex.

The Fermilab Main Injector will enhance Fermilab's capabilities and allow physicists to further probe important questions about how our universe works, such as "Why does the universe have more matter than antimatter?" "Do neutrinos have mass?" "What is the character of the strange quark?"

Construction of this new scientific tool will guarantee that the United States retains its leadership in the field of high-energy physics—the field which studies the most basic particles of matter and the forces acting between them.

inside

People
page 2

■
Announcements & Events
page 4

■
Weighing Facts on Fat
page 6

■
Safe Driving Tips
page 7

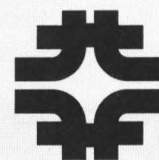
■
From the Stacks
page 8

FermineWS is published by the Fermilab Publications Office, MS 107, P.O. Box 500, Batavia, IL 60510, 708 840-3278, FNAL::TECHPUBS

The deadline for the Friday, April 2 issue of *FermineWS* is Wednesday, March 24.

Please send your article submissions or ideas to the Publications Office.

Fermilab is operated by Universities Research Association, Inc. under contract with the U.S. Department of Energy.



Guerrero busy returning a good deed

Rob Guerrero of the DOE Batavia Area Office is finding his schedule very full these days.

Besides his duties as a project engineer in the DOE Office, Rob volunteers as a tutor at the Midtown Center in Chicago. Midtown is run by the Midtown Education Foundation, an enrichment foundation that runs centers such as Midtown all over the world.

The Midtown Center in Chicago provides educational tutoring and sports programs for inner-city boys from the 4th through 9th grades to supplement their school education.

Rob is one of many young professionals who help to tutor boys at the center two nights a week and on Saturdays. Rob has been tutoring boys at Midtown for close to two years and was recently appointed to the MEF Junior Board of Directors.

Although Rob has been tutoring at Midtown for only a few years, this is not his first involvement with Midtown. Rob himself is a product of Midtown Center, going through the program in 1979-1980.

Rob said that his involvement in Midtown as a boy was very good for him. "I think it really helped me and prepared me for high school, consequently, I did pretty well," Rob said.

Today, Rob finds his volunteer work rewarding. "When I talk to other people about volunteering, I tell them what a special feeling it is when you see a kid come in and say, 'Look what I got on my last test!' It's just great. I really can't put into words what a good feeling it is."

Rob said he hopes that other young professionals can see that there is a need for volunteers. "A lot of these kids," Rob said, "come from low-income families and some from neighborhoods where there are gang problems. I think they really need something like this to give them a good positive influence in their lives."

Rob added that he gets a special feeling knowing that he is giving back to people what he received.



Joe Miller retiring



Joe Miller (BS/Purchasing) is saying goodbye to Fermilab after nearly 15 years of service to the Laboratory.

Joe began working at the Laboratory in the Contracts Department on July 7, 1978. Joe, an avid golfer, was also a member of the Fermilab golf league for 13 years.

After he leaves the Laboratory on March 31, Joe said he plans to spend time during the summer "up north" making travel plans and deciding on what he would like to do in the next few years. Joe said he found Fermilab pleasurable. "This is an excellent place to work, the people are great."

Jones elected to Kane County Board

Congratulations to new Kane County Board Member **Gerald Jones**. Gerry, a Fermilab employee for 24 years, works in the Business Services Information Systems Department. In November, he was elected the Democratic Representative from District 7, which covers much of the east side of Aurora.

Gerry ran a campaign emphasizing his positions on the issues of gang violence, economic development, health care and flood control. He also encouraged people to exercise their right to vote.

The County Board is a 26-member elected legislative body headed by a chairperson. It determines policy and/or allocates budgetary funds for various property and service projects. Among these are health care, courts, zoning for unincorporated areas of the county, forest preserves and environmental issues

and ecological considerations.

This is the first time Gerry has run for a public office, but it won't be the last. He said he plans to run for the board again after this two-year term is over.

Gerry said his involvement on the board has so far been rewarding. He said there is satisfaction in being able to represent his constituency and knowing that what he does he is doing for other people.

One of the benefits of consulting with a county board member, Gerry added, is that he or she is a neighbor and a part of the community and more accessible than a public official in Springfield or Washington, D.C. for example.



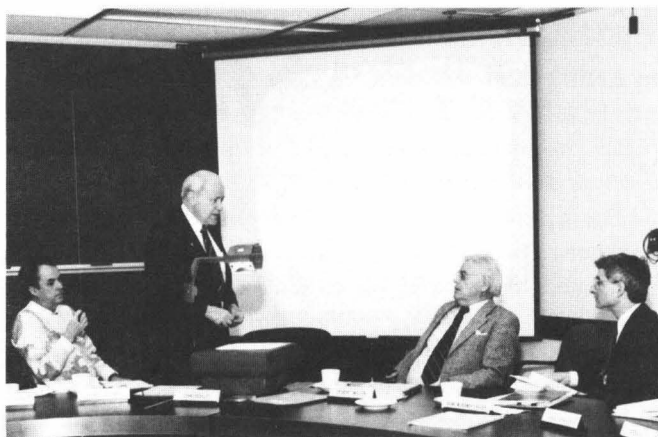
Board of Overseers meets at Fermilab

On March 12, the URA Board of Overseers met at Fermilab. The 18-member board meets three times a year at the Laboratory. They are the governing body that monitors the operations and management of the Laboratory to insure our compliance with the policies and directives of URA. They also provide advice to the Laboratory director.

The Board of Overseers reports to the URA Board of Trustees and informs the Board of Trustees of the state of the Laboratory and of any major changes in the direction of the Laboratory.

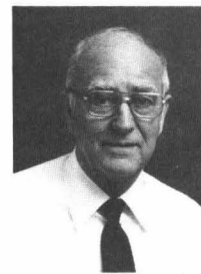
It is within the power of the Board of Overseers to nominate the director of the Laboratory for approval by the Board of Trustees. In consultation with the URA president, the Board of Overseers appraises the director's performance and recommends a salary level to the president. The board also approves the appointment of the Laboratory's deputy director, approves senior scientific appointments, establishes visiting committees, reviews internal audits, approves requests by the directors for allocation of funds by the Board of Trustees for Laboratory-related purposes and establishes other procedures necessary to carry out its responsibilities in overseeing the operation of Fermilab.

Members of the board represent both academic institutions and industry. The current board is composed of seven regional overseers and 11 at-large overseers. Members are elected by the Board of Trustees and serve three-year terms. Members can serve a maximum of two terms. The members of the Fermilab Board of Overseers are: **Robert K. Adair**, Sterling professor of physics, Yale University; **William V. Braun**, senior vice president and director of R&D, Motorola, Inc.; **David H. Cohen**, provost, Northwestern University; **E. William Colglazier**, executive director, Office of Internal Affairs, National Academy of Sciences; **Maurice Glicksman**, chairperson of the Fermilab Board of Overseers and professor of engineering and physics, Brown University; **Gail Hanson**, Physics Department, Indiana University; **Leland E. Holloway**, Department of Physics, University of Illinois-Urbana; **George R. Kalbfleisch**, Department of Physics and Astronomy, University of Oklahoma; **Alexander MacLachlan**, senior vice president, DuPont Research and Development; **John P. McTague**, vice president for technical affairs, Ford Motor Company; **Roberto Peccei**, chairperson, Physics Department, University of California-Los Angeles; **Charles E. Putman**, executive vice president for administration, Duke University; **David Schramm**, Louis Block professor, Enrico Fermi Institute, University of Chicago; **David K. Scott**, provost, Michigan State University; **Paul F. Slattery**, chairperson, Department of Physics and Astronomy, University of Rochester; **Harold K. Ticho**, vice chairperson of the Fermilab Board of Overseers, professor, Department of Physics, University of California; **Robert R. Wilson**, professor emeritus, Cornell University, director emeritus, Fermilab and **Irving Wladawsky-Berger**, assistant general manager, Supercomputing Systems, IBM Corporation.



l to r: Leland Holloway, URA President John Toll, Director Emeritus Robert Wilson and Irving Wladawsky-Berger at the opening session of the URA Board of Overseers meeting.

In Memoriam



It is with regret that we announce the passing of former employee Ralph Kramp on March 2, 1993.

After retiring as chief of the Aurora, Illinois, Fire Department, Ralph joined the Fermilab Fire Department on December 12, 1977 and served as fire chief until his retirement on June 30, 1989.

Ralph brought about many improvements to the department during his tenure including office computers, additional staff, new equipment and written mutual aid agreements with the surrounding fire departments.

After his retirement, Ralph kept in touch with the Fire Department and acted as unofficial advisor to his successor, Fred Cload.

He is survived by his wife, Alice, three daughters and one son.

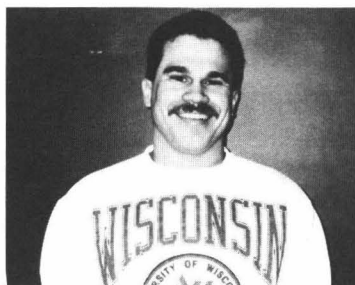
Harper's Index

Miles of bad checks written by Americans each year: 35,500.

Ratio of rats to people in Washington, D.C.: 2:1.

Perfect!

Jorge Hernandez (FESS/Bldg. Srvs.) did what many bowlers only dream about—he bowled the perfect game. Jorge landed the 12 strikes February 28 at Valley Bowl in North Aurora. Jorge, who belongs to the Latin American Mixed League, received a ring and \$300 for his expertise. And get this—he's only been bowling for two and a half years.



What's up for April Fools?

On April 1 there will be a Wellness Committee noon-hour seminar on healthy cooking in 1W. The speaker, JoAnna Lund, has a cookbook with lots of easy, nutritious recipes.

For those of us who thrive happily on coffee, doughnuts, Oscar Mayer wieners and exercising like maniacs, bring those long-awaited Girl Scout cookies to the noon-hour seminar on improving your communication skills, April 14 in Curia II.

"What else?" you ask. If you are in a step relationship (no, not with your aerobics instructor or stairmaster), try to attend the lecture *Thriving and Surviving in Your Step Family*, 7 to 8:30 p.m., March 22, Ramsey Auditorium.

Thinking about joining a gang? There will be a speaker on gangs at the end of April. I'll keep you informed.—*Audrey Hopper*

Construction wrapping up

Phase I construction is nearing completion on the Wilson Hall ground floor remodeling project.

Current remodeling and construction on the ground floor east and west hallways, two conference rooms and a west office area is scheduled to be finished in early May. A new west side entrance door will also be completed. The door will lead from the outside into the ground floor office space. In addition, the west side stairwell from the first floor to the ground floor will be reopened at that time.

Phase II of the project is scheduled to be completed in August. It involves the construction of office space on the mezzanine.

Nalrec news

Don't forget the party tonight, plenty of pizza and fun for all at the Kuhn Barn. Come see!!

Mark your calendar for the Spring Fling on April 16. This really looks to be a great night out and a super meal deal. Entertainment will be provided by that great D.J., Homer. Hope you'll be there.

Calling all Kane County Cougar fans! Get ready for a winning day on June 13, the weekend before Father's Day. Treat dad or the whole family to a fun, fun day at the ol' ball park.

We're sorry to say that our funding will not allow the Children's Easter Egg Hunt this year.—*Charlotte Smith*

Get in shape

An eight-week low-impact aerobics class will be offered on Monday and Wednesday evenings from 5:30-6:30 p.m., beginning March 29 through May 19 at the Recreation Facility. This fun-filled class is designed for those who want a complete workout and is open to both men and women. Emphasis is on increasing cardiovascular fitness as well as toning hips, thighs, abdomen, etc. Cost for the eight weeks is \$40. Registration is required—no walk-ins. Please wear comfortable clothes (shorts, t-shirts, leotards, etc.) and supportive court shoes.

An eight-week muscle toning class will be offered on Tuesday and Thursday evenings from 5:30-6:30 p.m., beginning March 30 through May 20 at the Recreation Facility. This is not an aerobics class—focus is on toning and shaping muscles. This is a great class for men and women. Cost for the eight week program is \$40. Registration is required—no walk-ins. Please wear comfortable clothes (sweat suit) and gym shoes. Light hand weights will be used as well as resistance bands. You may bring them if you have them. They will also be available in class.

Both classes will be taught by instructors from the Bod Squad. All instructors are dance/exercise and CPR certified. Throughout the session, you will receive numerous articles on topics such as basic nutrition, weight loss, stress, how to choose good shoes and much more.

Bod Squad currently has 26 classes in DuPage county. Students are encouraged to make up missed classes at any Bod Squad location. You can make up missed classes anytime during your session. A list of locations will be provided when the session begins.

Registration for either or both classes can be made through the mail by sending your check, payable to the Bod Squad to Jean Guyer, MS 125 or at the Activities Office, WH15W. Please specify which class you wish to attend. For more information call x2548. You must be a current gym member to participate in either class.

Stockrooms closing

The Fermilab Stockrooms will be closed for annual inventory. The Wilson Hall Stockroom will be closed Friday, May 14 at 12 noon and will re-open Monday, May 17 at 12:30 p.m. The Site 38 Stockroom will be closed Monday, May 17 and Tuesday, May 18, all day both days. Please plan accordingly. Any questions, call the Supply Office at x3808.

German language classes offered

Starting Tuesday, March 23, three German language classes will be offered free of charge.

A beginner's class for those with little background will be held Tuesdays from 5:30 to 6:30 p.m. A class for people who speak some German will be held Tuesdays from 4 to 5:15 p.m. These two classes will be taught by Angela Jostlein, 708-355-8279.

A more advanced class will be taught Wednesdays from 4:15 to 5:15 p.m. by Ulla Baker, 708-231-0339. For more information you may also call Brenda Kirk at x3440. All classes meet in the conference room in the house at 20 Neuqua in the Village.

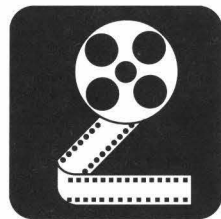
Movie schedule announced

The Fermilab International Film Society presents movies from all over the world. Movies are shown on Fridays at 8 p.m. in Ramsey Auditorium. All foreign films have English subtitles. Admission is \$2.

March 26: *Unfaithfully Yours*, directed and written by Preston Sturges, this original 1948 version stars Rex Harrison as an orchestral conductor who believes his wife is unfaithful, U.S., 105 minutes.

April 16: *Drowning by Numbers*, metaphorical game-playing of sex and death set in an idyllic English summer landscape with a tribute to the numbers 1-100. Peter Greenaway, director, Great Britain, 1988, 114 minutes.

April 30: *Local Hero*, offbeat comedy about a Texas oil executive sent to a coastal village in Scotland to purchase the drilling rights for his company. Bill Forsythe, director, Great Britain, 1983, 111 minutes.



Activities Office offers savings

Miss Saigon, one of the biggest hits ever, is now available on Hit Show Club discount coupons. This is a limited offer now through April 15. This sweeping musical by the creators of *Les Miserables* is one you will talk about for years to come. Stop by the Activities Office and pick up your coupon for 40% off the regular show prices.

Playgroup events



Sesame Street live!

The Fermilab Playgroup will sponsor a trip to see Big Bird and the ABC's at the UIC Pavilion Friday, April 23.

The cost for the event for those two years and older is \$8 per person. The cost includes \$6 for admission and \$2 for the bus trip. The bus leaves from the Users Center at 8:45 a.m. sharp and will return by 2 p.m. Book now—only a limited number of tickets are available. For reservations call Anna-Maria Feher at 708-897-7228 or contact the Playgroup at x2034 (mornings).

Discover... the Discovery Zone

Every month the Fermilab Playgroup organizes a trip to the Discovery Zone, Fox Valley Mall, Route 59 in Aurora. The group rate is \$2.95 per child. Adults are free. An optional "meal deal" lunch is available for \$2 per person.

The next outing is planned for Tuesday, April 13. There are also outings planned for May 12, June 18 and July 15. Please check with the Playgroup the morning of the outing to confirm. These dates are tentative.

Those wishing to attend may meet at the Discovery Zone at 10 a.m. If you do not know how to get there, you may meet at the Playgroup at 9:30 a.m. and caravan. If you need transportation contact the Playgroup to arrange a ride.

The event ends at 12:30 p.m. Participants will be back at Fermilab around 1 p.m. Money is collected the day of the event.

This and all Playgroup activities are open to all Fermilab employees, visitors or users and their families. For further information, contact Anna-Maria Feher at 708-897-7228 or the Playgroup at x2034.

Your right to know

Access to records

Working at Fermilab you may be exposed to potentially harmful chemical or physical agents. Your ES&H Group assesses these exposures and sometimes conducts a sampling to determine if there is a hazardous situation. Based on this assessment, medical surveillance is sometimes recommended. Employees who are exposed to hazardous levels of lead and noise, for example, are enrolled in a medical surveillance program. Records are maintained of workplace exposure monitoring and medical surveillance.

The results of all environmental workplace monitoring are entered into a database by the ES&H Section. The ES&H Section also maintains any written documentation which accompanied the samples. A written report of sample results is sent to the appropriate ES&H Group.

If an employee participated in "personal" monitoring, the sampler was attached to the employee to reflect his or her personal exposure. Copies of the sample results are sent to the employee and the Medical Office for inclusion into the employee's medical file.

Since all of this information relates to your health, you have the right to
Continued on page 8

By calling toll free 1-800-252-2901, you can receive the Central Florida Vacation Information Guide FREE. This valuable pamphlet can save you hundreds on your vacation.

Visit the Activities Office, WH15W and check out the pamphlet racks for additional coupons and vacation information.

Weighing the facts about fats

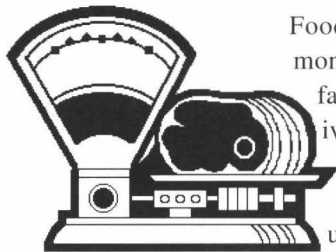
When you go to the refrigerator for a snack do you grab for that leftover pizza or that gallon of fudgy-nut ice cream, or do you open the veggie crisper searching for a carrot or a chunk of lettuce? The decision you make can have an effect on your health, according to JoAnn Skabo, a nutritionist with the Kane County Home Extension.

Skabo gave a noon-time seminar here recently on fats and cholesterol in the diet, explaining how to change your diet to cut out fat and lower your cholesterol level. The seminar was one in a series of lunch-time seminars sponsored by the Fermilab Wellness Works Committee.

Skabo said that being aware of how much fat you eat is a step you can take towards a healthier lifestyle. Knowing the difference between fats and cholesterol, and knowing how to choose foods low in both is an additional step towards good health. Many people confuse fats and cholesterol, Skabo said. People can cut down on their cholesterol, but still have high amounts of fat in their diet and can cut down on the fat but still have a high cholesterol level.

Cholesterol is found only in foods of animal origin, Skabo said, and its usual companion is saturated fat. Therefore by reducing the total fat in your diet, you will lower your cholesterol and saturated fat intake.

Certain types of fat, such as monounsaturated, can also lower your cholesterol level. Monounsaturated fat lowers the level of LDL, or "bad" (low density lipoprotein) cholesterol, but not the level of HDL (high density lipoprotein) cholesterol. LDL is called the "bad" cholesterol because it carries about one-half to two-thirds of the blood cholesterol. The higher LDL levels are the greater the chance of producing fatty deposits in the arteries. HDL, however, is the "good" cholesterol because it contains little cholesterol and actually carries cholesterol away from the body's tissues. Another kind of fat, polyunsaturated, also lowers cholesterol levels, but it lowers both LDL and HDL levels. Although mono and polyunsaturated fats can lower cholesterol they are still high in calories.



Foods that have monounsaturated fats include olive, peanut and canola oils, while polyunsaturated fats can be

found in soy, corn and fish oils. Saturated fats can be found in foods containing animal fats, such as fatty meats, butter, milk, cheese, coconut and palm oil and foods fried in lard.

Skabo said by choosing leaner cuts of meat, removing skin from chicken, eating less eggs and more lentils or beans and broiling or baking foods instead of frying, you will reduce your fat and cholesterol intake. She added that even though too much fat in your diet can be bad for you, it is important to have some fat in your diet. Fat gives the body concentrated calories, supplies essential fatty acids and energy, absorbs vitamins, gives flavor to food and makes you feel satisfied after eating.

How fat is this food?

Choosing healthy foods is a difficult thing to do at times. Labels on packages claim that this food is fat-free, that that food contains no cholesterol, and so on. To be sure you are buying what you want, you can calculate for yourself the amount of calories in a food that come from fat. A simple rule to remember is that every gram of fat has nine calories. To calculate the percentage of calories from fat, multiply the grams of fat by nine and then divide that total by the total calories in the food. For example, a label on margarine might say it has a total of 80 calories and 8 grams of fat per serving.

To calculate the percentage of fat:
 $8 \text{ g. fat} \times 9 = 72 \text{ calories}; 72 \div 80 = 90\%$

This means that 90% of the calories in the margarine comes from fat. Does that make your arteries quiver or what?

Tornado seminar coming

The annual Fermilab tornado seminar, featuring meteorologist Tom Skilling, will be held in Ramsey Auditorium on April 3 at 1 p.m. and 7 p.m. This is the 12th year Fermilab has sponsored the informative talk, organized by the National Severe Storms Forecast Center. Admission to the seminar is open to all Fermilab employees and the public free of charge.

Knowing what to do during a tornado can save your life. It is important to know proper tornado safety procedures both here at the Laboratory and at home. At Fermilab, a tornado warning is indicated by an intermittent alarm indoors in selected buildings and a steady siren outdoors. Whether you are inside a building or out, go to a designated shelter immediately. A tornado warning means that a tornado has been sighted in the vicinity.

If you do not know the location of the shelter in your area or are unfamiliar with your area warning devices, ask your supervisor or your division's or section's ES&H Group. A sitewide listing of Fermilab shelter areas was published in the *Tiger Teams at Fermilab* book. (Copies are still available from the Publications Office).

During a tornado warning, Wilson Hall residents are to proceed down the south stairs to the basement and connecting utility tunnels. Employees with disabilities will be escorted by the floor warden to a restroom located on their floor. The warden will immediately call the Communications Center at x3131 and give the exact location of the disabled person and then follow the standard emergency evacuation procedures.

During a tornado it is important to stay away from windows and glass. If you are in Feynman Computing Center, do not use the open stairwells with glass exposure, go to the rear stairway, tape vaults and washrooms. If you do not have time to reach a designated shelter while outside, seek shelter in the nearest ditch or natural depression in the ground. Do not stay in your vehicle. Those working in one of the many portakamps on site should quickly go to their designated shelters.

Beautiful, graceful and dangerous

In the last issue of *Ferminews* we reported that the number of deer on the Fermilab site has increased dramatically. As we move into spring and warmer weather, the deer herd will become more mobile.

This period of increased mobility is anticipated by many of us who love to get a glimpse of these graceful animals, but it is also a time to exercise extreme caution when driving. Over the last few years there have been 61 vehicle-deer accidents on the 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 of two, three or a dozen.

When you see a deer slow down at once to avoid crashing into a second deer while you are watching the first one. Blink your headlights or toot your horn to scare the deer.

A driver who sees a deer on the road should stop. Attempting to dodge a deer at any speed is risky, even if you are able to maintain control of the car. The deer may suddenly bound ahead of the car or run a zigzag course all over the road. Also avoid tailgating another motorist. If the vehicle ahead has to stop suddenly, so do you!

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 long before you spot the animal.

According to statistics from the National Safety Council, collisions involving deer can be serious and costly. Average damage to grilles, fenders, lights, hoods or doors is more than \$1,200. Many times the vehicle cannot be driven away because the radiator is pushed into the fan and is leaking.

Motorcyclists are particularly vulnerable in a collision with a deer and should exercise extreme caution during this time period.

Fortunately there have been no serious injuries on site due to vehicle-deer accidents, but, as the deer population increases, so does the potential for injuries. Your best defense when driving is to be watchful and ready, wear your seat belt and DRIVE SLOWLY.



Although the site is posted with deer-crossing warnings, the little critters are seldom seen gathered around the signs waiting to cross. Exercise caution where ever you drive on site. Catching a grown deer in midleap on the windshield of your car may fill the front seat with broken glass and a struggling, 150 pound animal.

If you do hit a deer on the site:

- Call x3414 and report the accident to Security.
- In deer-vehicle accidents, the animal is frequently killed. The motorist may legally keep the deer, but only if a security report is obtained.

Cartoon by Emil Huedem, FESS/Eng. & Planning

New from the Stockroom

1330-0910 Portfolio, double inside pockets, coated leather grained paper stock, for 12 in. x 9 in. sheets, white.

1330-0915 Portfolio, double inside pockets, coated leather grained paper stock, for 12 in. x 9 in. sheets, yellow.

1980-1070 Argon gas, compressed, ind. grade, minimum purity 99.995 pct., CGA 580 fitting, 2200 PSIG at 70 deg., 20 SCF cylinder size, non-flammable.

1980-1155 Helium gas, compressed, ind. grade, minimum purity 99.995 pct., CGA 580 fitting, 2200 PSIG at 70 deg., 20 SCF cylinder size, non-flammable.

2650-5000 Lockout device, padlock, accepts 6-padlocks up to 3/8 in. shackle dia., vinyl-coated steel, 1 in. jaws, red, Osborn P/N OG-80.

2650-5010 Lockout device, ball valve, 1/4 in. to 1 in. valve size, maximum 9/32 in. dia. x 1 in. length, super tough nylon, red, Brady P/N 65666.

2650-5020 Lockout device, ball valve, 1-1/4 in. to 3 in. valve size, maximum 9/32 in. dia. x 3/4 in. length, heavy steel, red, Brady P/N 65692.

2650-5030 Lockout device, gate valve, 1 in. to 2-1/2 in. valve handle diameter non-

adherent plastic to resist chemicals and hot and cold temp., Brady P/N 65560.

2650-5040 Lockout device, gate valve, 2-1/2 in. to 5 in. valve handle diameter non-adherent plastic to resist chemicals and hot and cold temp., Brady P/N 65561.

2650-5050 Lockout device, single pole circuit breaker, accepts up to 9/32 in. shackle dia. lock, red, Brady P/N 65688.

2650-5060 Lockout device, 277 v circuit breaker, accepts up to 9/32 in. shackle dia. lock, red, Brady P/N 65965.

New in the Fermilab Library:

Stephen Hawking's A Brief History of Time: A Reader's Companion edited by Stephen Hawking; prepared by Gene Stone. New York Bantam Books, c1992. QB981.H377 S74 1992, locked cases.

Stephen Hawking: A Life in Science by Michael White and John Gribbin. New York: Dutton, c1992. QC16.H33 W45 1992, locked cases.

Excel 4 for the Macintosh: Spreadsheet Solutions and Data Designs by Edward Jones. Berkeley: Osborne McGraw-Hill, c1992. HF5548.4.M523 J653 1992, locked cases.

A Guide to Radiation and Radioactivity Levels Near High Energy Particle Accelerators by A.H. Sullivan. Ashford, Kent, England: Nuclear Technology Pub., c1992. QC795.32.S3 S85 1992, locked cases.

'92 *Electroweak Interactions and Unified Theories: Proceedings of the XXVIIth Rencontre de Moriond, Les Arcs, Savoie, France*, March 15-22, 1992. Gif-sur-Yvette: Editions Frontieres, 1992. QC794 .R292 1992 v.1, locked cases.

The Library has begun placing records for preprints it receives in its on-line catalog. This is done when the new preprints are placed on display each Tuesday. A list of the preprints may be accessed in the search mode by using the date of the Tuesday of the current week and the keyword "preprint," i.e. "Find preprint and cataloged 16-MAR-1993." To get to the catalog, telnet to FNLIB.FNAL.GOV, and from the FNAL cluster or other DECnet nodes on HEPNET: SET HOST FNLIB, USERNAME: LIBRARY, or from the port selector prompt: FERMILAB=LAN, vista> C FNLIB (press return several times) USERNAME: LIBRARY. To request an item be sure you are in the "Catalog Mode" and enter R at the >> prompt, then follow the directions on your screen. To logout, issue control-Z to return to the initial screen and then respond with L to logout.—*Rob Atkinson*

Classified ads

Vehicles

1990 Miata, red, 5 speed, AM/FM/tape, air, low miles, good condition, asking \$11,800. Call x4361.

1989 mobile home, 14'x70', 2 BR, 2 BA, C/A, appliances, dishwasher, w&d, shed, eat-in kitchen. W/skylight, quiet neighborhood. Call Irene at x4788 or 708-888-0918 after 4 p.m.

1979 Olds 98, 117K miles, fully equipped, well cared for, \$900. Call Mike at x2220 or 708-557-2234.

Miscellaneous

Carrier air conditioner, 110v, 11000btu/hr., \$325; **Raleigh Record 10-speed bicycle**, 21" frame (suitable for person about 5'6"), \$50; **Bogen 3035 tripod**, accessories, \$125; **car ramps**, \$10. Call Al at x4829 or 708-513-7679 evenings.

4.5 foot **kitchen table**, wood w/laminated top, 1 leaf, 4 matching chairs, wood w/padded fabric cushions, \$125; **film development equipment**, enlarger w/accessories, \$100; **Westinghouse 1960s console-style stereo system**, wood cabinet, AM/FM/stereo recorder changer, \$75; **Pioneer SX980 and SX838 stereo receivers**, needs some repair, \$25 ea. Call 708-739-3895.

Soloflex, new condition, w/butterfly & leg attachments, curl tubes, books and over 300 lbs. in weight straps, \$725. Call Frank at x2140.

Cap for Nissan pickup truck, 6-ft. bed, \$100. Call Dave at x3632 or 708-552-1320.

Your right *cont.*

review it at anytime. This right is mandated by OSHA regulation 1910.20. It is also stated in the *Fermilab Personnel Policy Guide* (Article 27, Item 6). Requests for copies of exposure records can be made to your Division/Section ES&H Group, the ES&H Section or the Medical Office. Requests for information from your medical file must be filed with the Medical Office.

Men's brown leather jacket by Members Only, size 46, worn only twice, \$300. Call Shelley at x3324.

Men's 10 speed bike, "Italvega" 22" frame, 27" quick release wheels, center pull brakes, \$50 firm; **queen size waterbed** w/book-case headboard, padded rails, heater, (full flotation) \$75. Contact Ed at x3654 or FNAL::DIJAK.

15 gal. aquarium, comes complete w/oak stand, cover and light. All filters (U-gravel and external), gravel, plants, heaters and two air pumps included. Good condition, \$110. Call Gary at x2264 after 1:30 p.m. or 708-852-7278 after 6:30 p.m. or e-mail MWEST::TALASKA.

Golf clubs: Tour Model II (Ping clone) irons 2-9, PW & SW, like new condition, \$145; 747XL Kevlar-Graphite Hi Tech driver w/Aldila HM-40 Boron-Graphite shaft, \$90. Call Jack at x2812.

White **drafting table** w/storage tray, folds for easy storage, \$75. Call 312-974-4301.

Real Estate

Female roommate(s) to share expenses in 3BR, 2BA, 2.5 car garage in Batavia off Route 31 near the Lincoln Inn. Call Sheila at x3032.

Nicely decorated large **3BR town home**, finished family room w/wet bar, 2.5BA, formal dining, fireplace in living room, 2.5 attached garage, deck overlooking woods, pool, tennis courts, club house, 3 miles north of Lab, many amenities, \$158,500. Call 708-208-1189.

Chez Leon

March 24: Black bean soup, Cornish hens with guava glaze and vegetables of the season, tropical fruit platter, \$13.

March 25: Asparagus maitaise, grilled salmon with salsa verde, vegetable gratin and pear and hazelnut praline souffle, \$23.50.

For reservations call x4512.