

FermiNews

The Newsletter of the Fermi National Accelerator Laboratory

DUCKS, GEESE AND DOE RECOGNIZE FERMILAB WETLANDS

From last month's Congressional debate on the Clean Water Act: "Only a psychiatrist could explain to me why the ducks and geese...are so much better at delineating wetlands than five federal agencies. At least they can figure out where to land, and they have never landed in the parking lot at the Sands Hotel which, by the way, has been declared the jurisdictional waters of the United States of America."—Representative Jimmy Hayes of Louisiana.

Ducks and geese do land in Fermilab's new 8.5-acre wetland along Indian Creek, in the center of the Main Injector accelerator ring. And the Main Injector Project itself has landed an award for the quality of the fledgling wetland. On May 23, WILLIAM FOWLER (AD) and DON COSSAIRT (ES&H) accepted on behalf of Fermilab the Department of Energy's 1995 Office of Energy Research NCO Quality Award for Environmental Planning.



Physicist William Fowler conveys wetlands award to Director John Peoples in the award-winning wetland.

FermiNews



Friday, June 16, 1995 • Volume 18, Number 10

Computer Misuse Brings Four Employees Suspension	page two
Lab Reissues Electronic Network Accessing Policy	page three
URA Scholarship Winners Announced	page four
People & Events	pages six through eight

In a letter announcing the award to Director JOHN PEOPLES, DOE's Director of the Office of ES&H Technical Support, Joseph Maher, wrote, "Construction of the Main Injector required the taking of 5.7 acres of wetlands, the loss of which was mitigated by a replacement of 8.55 acres of wetlands in the same watershed of Indian

continued to page two

COMPUTER MISUSE BRINGS FOUR EMPLOYEES SUSPENSION

Improper use of a Fermilab computer and the communication network resulted in suspension without pay for four Laboratory employees in recent weeks. In addition, a user received a strong warning that further evidence of improper use would result in suspension from access to Fermilab's site and computers.

In each case, when Laboratory management learned of network access to sites with predominately inappropriate material, Associate Director TOM NASH requested that the Computing Division immediately conduct an investigation of the individual's computer files. The investigations revealed storage on the employees' workplace personal computers of graphic images clearly unrelated to Fermilab's scientific activities.

"A published statement governs the

use of computers at Fermilab," Tom said. "I wrote to all employees on October 13, 1994, enclosing the Laboratory's statement on the use of computer facilities. These suspensions show how seriously we take the policy, and how strictly we plan to enforce it. Our ability to preserve the free and open scientific atmosphere at Fermilab requires that employees exercise common sense in the use of computers and the network."

The Computing Division records the destination, source and length of all data entering or leaving the Laboratory on the network. The Computer Protection Program Manager (CPPM), IRWIN GAINES, and his assistants, monitor this information for indications of abuse.

In this issue of *FermiNews*, the Labora-

tory publishes a new policy statement on Publishing and Accessing Information on Electronic Networks (see page 3). The policy addresses the new and powerful capabilities of the Internet and World Wide Web. It is based on work over the last month by the Computing Division, which will issue related procedures and guidelines to assist managers, employees and users.

Improper use of computers also includes "hacking," attempts to access a computer without authorization. "With the summer here, supervisors should be sure to remind temporary employees that hacking of Fermilab or outside computers is a particularly serious no-no," Tom said. Employees who have questions about proper use of computers and networks should consult their supervisors or Irwin Gaines.

WETLANDS

continued from page one

Creek. The wetlands mitigation project was thoughtfully planned and implemented, and has a good chance of success."

Federal laws require replacement of wetlands lost to construction, but not all new wetlands stay wet. Accounts abound of wetlands that revert to dustbowls as soon as developers leave town. Brian Smith, a wetlands scientist of the environmental engineering firm Consoer Townsend Envirodyne, who helped plan and design Fermilab's wetland, believes that successful wetland creation requires a combination of "good science, enough funding—and rain.

When wetlands fail, it is usually for lack of one or more of these factors."

Fermilab's Fowler, who oversaw the Environmental Assessment for the Main Injector Project, which included the wetland, estimates the construction cost of the wetland at \$700,000.

ROD WALTON (ES&H), Fermilab environmental scientist and a technical consultant to the project, supported Smith's view. "Good science at Fermilab included careful siting of the wetland in a place that required minimal excavation, surrounded by natural wetlands," he said. "There is already a band of forested wetland along Indian Creek;

we just added to it. Then we had two wet summers in a row."

Rod explains that wetlands serve three main functions in the environment. They provide floodwater storage to prevent downstream flooding; they preserve species diversity; and they have a high capacity for cleansing water, preventing pollutants from moving downstream.

Clarence Hickey, NEPA Compliance Officer for DOE's Office of Energy Research and ER Director Martha Krebs presented the award for the wetlands at a ceremony in Washington, DC. No ducks or geese were present.—*Judy Jackson* ■

Lab Reissues Electronic Network Publishing and Accessing Policy

The technology of the international computer network (Internet) and the evolving applications and standards that support it (especially the World Wide Web) provide unprecedented power to access and publish information almost instantaneously. Its impact on the collaborative field of high-energy physics is particularly profound. It is an ideal tool for communication in the field. Fermilab strongly encourages its use.

This new capability comes with new challenges and individual responsibilities since this technology invites a much more immediate and wide dissemination of information. Despite the new power of this technology, the fundamental policy of Fermilab, and of its parent agency, about information and the use of government property remains unchanging and simple:

1. Fermilab's single mission is science and the Laboratory will maintain an open scientific environment where the free exchange of ideas is encouraged and protected.
2. The use of government property is for the government's purposes only.

There is no real conflict between these two principles since Fermilab's mission is for the government's purposes. The problem is in the interpretation of which ideas and what information are in the interests of Fermilab's science and open environment. Fermilab's policy is to take the broadest possible interpretation. There is a large gray area, and to protect the free exchange of ideas, it is the responsibility of every Fermilab employee and user to use common

sense and good judgment.

Some material is not in the gray area. Sexually related material is clearly inappropriate, and when found either on Fermilab computers or posted externally from a Fermilab network address, Fermilab will initiate disciplinary action, including, at minimum, suspension without pay for employees, or suspension of site and computer access privileges, for users. In some cases, certainly those involving the felonious possession of pornography involving children, the government will take criminal action. Other legally prohibited material, such as interstate gambling information, could also bring severe disciplinary or criminal sanctions.

Many people access the network and its postings. Most of them are from outside the scientific culture, and they may not understand how a particular posting may be related to the government's business. Therefore, it is Fermilab's policy that material which is published or posted with external visibility must be clearly related to Fermilab's scientific mission.

The ease of use of this technology breaks down traditional mechanical barriers to publication prior to review. The disappearance of these barriers does not permit bypassing established rules and procedures regarding publication. For the purposes of these rules and procedures, electronically posted information with visibility external to the Fermilab community are to be understood as public documents.

The many crosslinks possible (on the Web, for example) and their ephem-

eral nature, means that pointers (links) to external addresses can quickly become a source of embarrassment. Employees and users should use common sense in displaying links on pages with Fermilab addresses; a link should only point to material that is predominately appropriate reference material—and likely to stay that way.

The head of the Directorate's Office of Public Affairs has the responsibility for maintaining a home page and auxiliary pages presenting Fermilab to the public. Other Laboratory entities may also provide such public information. In each case, there must be an individual, approved in writing by a division/section head or a scientific spokesperson and identified on the electronic page, with responsibility for the material. Division/section heads and spokespersons are responsible for determining the classes of material that should be posted for external (as opposed to Fermilab community) access.

Under the oversight of the associate director for computing and information, the Computing Division, through a Lab webmaster, will manage and lead the use of the World Wide Web and related information systems. The Computing Division will disseminate rules and procedures to implement the policy described here and in related policy statements, and will provide evolving technical guidance particularly with regard to protection of material not released for external viewing. The Computing Division also prepares related documents such as *Proper Use of Fermilab Computing Facilities* and *Responsibilities of Fermilab Computer Users*.

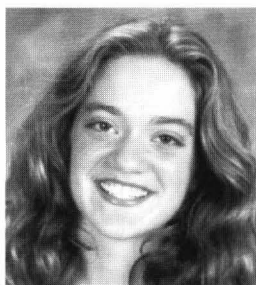
URA SCHOLARSHIP WINNERS ANNOUNCED

The Universities Research Association has awarded its annual scholarships to 13 sons and daughters of URA employees. The scholarships are designated for graduating seniors beginning a four-year degree program the following fall. The maximum amount of the scholarship is \$3,000 towards tuition and fees and is renewable for four years if the student stays in good academic standing. Awardees were selected on the basis of Scholastic Aptitude Test (SAT) scores.

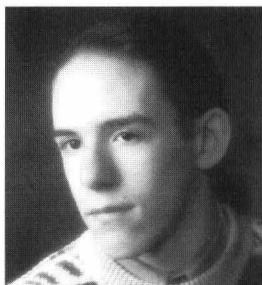
SONIA MARIE BROWNING, daughter of FRED BROWNING (RD) and MARY BROWNING (ES&H) is a graduate of Sandwich High School and an Illinois State Scholar. Sonia was also designated a James Scholar from the University of Illinois, Urbana-Champaign and a recipient of the Merit Recognition Scholarship from the University of Illinois. Sonia will study biology at U of I and hopes to become a doctor.

ERIC ROBERT DAHL is a graduate of Glenbard West High School in Glen Ellyn and the son of SUSAN DAHL (LS). A National Merit Scholarship semi-finalist and Illinois State Scholar,

continued to page five



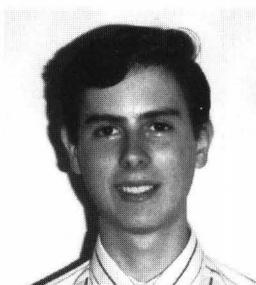
S. Browning



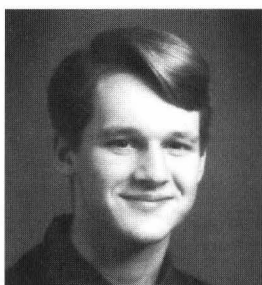
E. Dahl



R. Gaines



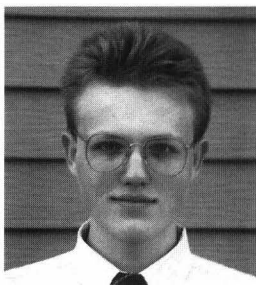
M. Green



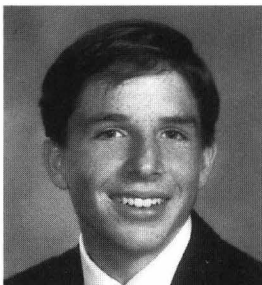
J. Hauser



H. Kasper



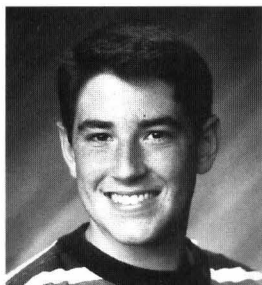
D. Mokhov



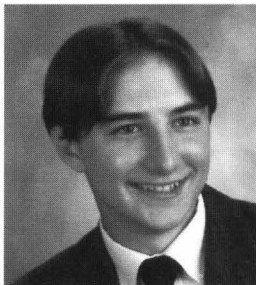
R. Montgomery



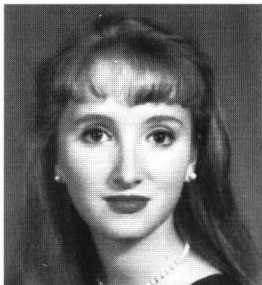
M. Petravick



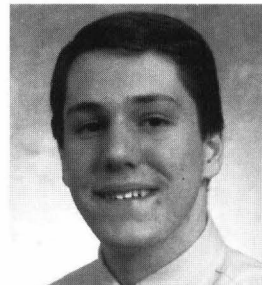
M. Pordes



A. Stolz



V. Thatcher



R. Tokarek

URA SCHOLARSHIP WINNERS

continued from page four

Eric will study computer engineering at the University of Illinois, Urbana-Champaign and plans to have a career in computers.

REBECCA STEPHANIE GAINES, daughter of IRWIN GAINES (CD), will attend Harvard University in the fall to pursue a degree in government or history. Rebecca then plans to go on to law school. She is a graduate of Naperville North High School.

MICHAEL CULLEN GREEN, son of DAN GREEN (DZero), is a National Merit Scholarship Finalist and a member of the National Honor Society. Michael, a graduate of Batavia High School, plans to begin his studies at Cornell University in Ithaca, New York this fall.

JONATHAN MICHAEL HAUSER will attend Augustana College in Rock Island, IL. this fall to pursue a major in music education and a minor either in chemistry, physics or mathematics. Jonathan, the son of RICHARD HAUSER (AD), is a graduate of Marmion Academy in Aurora and the recipient of a Augustana College Music Scholarship and Presidential Scholarship, a Northeast Missouri State University Academic Scholarship and a Northern Illinois University Music Scholarship.

HEIDI D. KASPER, daughter of PETER KASPER (RD) is an Illinois State Scholar and a former member of the Geneva High School JETS team. A graduate of Geneva High School, Heidi will attend the University of Illinois, Urbana-Champaign to major in architecture.

DMITRI N. MOKHOV is a graduate of Batavia High School and the son of NIKOLAI MOKHOV (AD). Dmitri received a gold medal in math and a silver medal in physics in the Illinois JETS district competition. He also received a bronze medal in physics in the JETS regional competition. Dmitri plans to study math and computer science at the University of Illinois, Urbana-Champaign beginning this fall.

RICHARD MONTGOMERY will attend Cornell University in the fall to study medicine or biomedical engineering. Richard is the son of HUGH MONTGOMERY (DZero) and a graduate and co-valedictorian of the Batavia High School class of '95.

MEREDITH CLARE PETRAVICK, daughter of DONALD PETRAVICK (CD), is a graduate of Rosary High School in Aurora. Meredith is an Illinois State Scholar and a member of Who's Who Among American High School Students and the National Honor Society. She was a Saturday Morning Physics participant, a member of the Rosary High Math Team and vice president of Mu Alpha Theta Math Club. She is also the recipient of the Young Scientist Award from the Chicago Museum of Science and Industry and a member of the High Honor Roll at Rosary. Meredith will study mechanical engineering at the University of Illinois, Urbana-Champaign beginning this fall.

MICHAEL IAN PORDES, is a graduate of Glenbard West High School in Glen Ellyn and the son of

STEPHEN PORDES (Physics) and RUTH PORDES (CD). Michael will attend the University of Illinois, Urbana-Champaign to pursue a degree in pre-med. Michael plans to become a doctor or enter a people-orientated career.

AARON GRANT STOLZ will attend the University of Illinois, Urbana-Champaign in the fall to study anthropology. Aaron is the son of MICHAEL STOLZ (CD) and a graduate of Crystal Lake Central High School. Aaron is an Eagle Scout and has received a National Merit Commendation and a Lake Keesus Women's Club Scholarship.

VICTORIA ANNE THATCHER, daughter of ROY THATCHER (CD), is a graduate of Glenbard South High School in Glen Ellyn. A member of the National Honor Society and French Honor Society and recipient of the Brown University Book Award for Outstanding Writing, Victoria plans to attend Dartmouth College in Hanover, New Hampshire to pursue a career in neonatal pediatrics/obstetrics.

RYAN TOKAREK is the son of ROGER TOKAREK (RD) and step son of LISA CHEN-TOKAREK (Physics). Ryan is a graduate of West Chicago Community High School, an Illinois State Scholar and a member of the German National Honors Society. He was named captain and most valuable player on the Scholastic Bowl team. Ryan plans to study computer engineering at the University of Illinois, Urbana-Champaign.

People Events

FERMILAB ARTS SERIES PRESENTS

SAN FRANCISCO TAIKO DOJO
Saturday, July 22, 1995 - \$17

“The essence of the San Francisco Taiko Dojo is not only the skillful playing of percussion instruments, but also the discipline of mind and body, in the spirit of complete respect and unity among the drummers.”—*Grand Master Seiichi Tanaka, Founder of San Francisco Taiko Dojo*

The exact origin of Taiko remains unknown. However, through ancient folklore, historical writings and anthropological studies, it is known that Taiko has been associated with many aspects of Japan's culture. In Buddhism, the drums represented the voice of Bud-

dha. Farmers used drums to chase pests from the fields. Drumming was used in times of war to signal men in battle.

Grand Master Seiichi Tanaka founded the San Francisco Taiko Dojo 21 years ago and is credited with bringing Taiko to America. His philosophy is evident in performances that blend contemporary rhythms, a variety of percussion instruments, singing and Taiko and martial arts stances. Past performances include a command performance before Emperor Hirohito; appearances on national and international television and a unique collaboration with jazz great Art Blakey. Tanaka and San Francisco Taiko Dojo have also appeared in the films *Apocalypse Now* and most recently, *Rising Sun*.

COMING UP

Milt Jackson Quartet, August 26, \$20. Don't miss this chance to see one of the leaders of modern jazz and be-bop.

WELLNESS WORKS

Bike to Work Day is Friday, June 23. This is the day to try an alternative form of transportation as part of the Wellness Works Summer Fitness Challenge. If you plan to ride to work that day, you should turn in a registration form to the Recreation Office by June 22. For information call x2548 or x5427.

NALREC NEWS

Have a remarkable chili recipe you want to share? Then don't miss the first Hard Times Chili Cook-off, June 23 from 5:15 to 9:15 p.m. at Kuhn Barn. First, second and third place People's Choice trophies will be awarded. Contestant guidelines and registration forms are available at the Atrium desk or from Dominick at x3187 or Alan at x2870.

Mark your calendars for these great upcoming events: A trip to Ravina is scheduled for August 4. For more information and reservations, contact Lyn Bagby at x3100 or quickmail.

Don't miss FermiFest '95 on August 11, 1995. Family fun for all is planned plus a sure-to-be-good performance by local band Deluxury.

Tickets for Six Flags Great America Theme Park are also available from JoAnn Hall, WH4W.

TOP QUARK SEMINAR

Wed., June 21, 12 noon, WH1W

If you are not a physicist, or if science at school left you totally confused, you might like to hear MIKE ALBROW talk about quarks in the simplest terms and give a glimpse of the excitement behind the discovery of the top quark. Mike is a physicist on CDF who talks to the general public about particle physics. This talk was first given to technicians, programmers and secretaries in CDF, after which he was encouraged to present it more widely. When several people said they regretted missing his first brown bag seminar to the general Fermilab audience, Mike decided to repeat it June 21. All are welcome; physicists, only if you are interested in the popularization aspects.

Users Annual

Meeting Scheduled

The Fermilab Users Annual Meeting will be held July 13 and 14, 1995. The meeting begins with an afternoon session at 1:30 p.m., Thursday, July 13. The Friday, July 14 session begins at 9 a.m. and runs all day. Both sessions will be held in Ramsey Auditorium. Registration starts at 12:30 p.m. on July 13 and 8:30 a.m. on July 14. For more information, contact the Users Office at x3111 or FNAL::USERSOFFICE.

LIGHTING INCREASED IN PARKING LOTS

For the night-time convenience of employees and visitors, additional light poles and lighting are being installed in the parking lots of Wilson Hall and the F4 Service Building.

The project began at the end of May to install 16 new lights in the Wilson Hall east and west parking lots and two lights in the F4 Service Building parking lot.

Most of the disruptive work in the parking lots is completed, said construction coordinator CHIP FISHER. "The contractor has drilled the light pole bases, and in roughly two weeks we will be ready to put up and anchor the poles." Construction is expected to be finished by the beginning of July. "This will create more lighting at night," said Chip. "Something we've needed for a while."

GIVE HEALTH A CALL

The National Heart, Lung and Blood Institute has established a toll-free telephone number—1-800-575-WELL—to provide recorded information on how to prevent and treat high blood pressure and cholesterol. After the recorded message, you can leave your name and address to request additional information.

Harper's Index

Average number of dimples on a golf ball: 415

Average amount spent on the tires used by each car during the Indianapolis 500: \$11,648

NALWO INFORMATION

The weather cooperated beautifully for Nalwo's annual Spring Tea, allowing many women to enjoy refreshments at the home of our hostess, Nancy Peoples. A thank you to all the women who brought food, and who helped with the set up and clean up. Thank you, too, to the Cafeteria staff for their excellent service and to SELITHA RAJA and MADY NEWFIELD for their executive skills.

Several Nalwo women enjoyed an excellent talk by Sharon Crane, an Australian native from the state of Victoria, at a special event coffee morning in May. Sharon presented a wonderful introduction to Australian geography, climate, history and political and social

structure. She exhibited a large map, showed a video and provided several books for perusal. She discussed the Aborigines, the original inhabitants of Australia who have lived there 40,000 years.

Everyone attending Sharon's talk was fascinated by the wealth of interesting information; many people resolved to visit Australia. A big thank you to Sharon for her terrific overview of the land down under.

Nalwo would be pleased to hear more presentations of this nature by people from various places. To make a suggestion or to volunteer, please call Selitha Raja at 708-305-7769.

—Sue Mendelsohn

MOVIE SCHEDULE

The Fermilab International Film Society presents movies at 8 p.m. Fridays in Ramsey Auditorium. Admission is \$4 for adults.

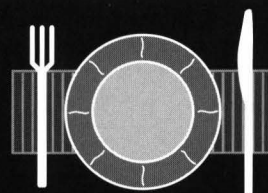
■ June 23 *Brazil*

Set at "8:49 p.m., somewhere in the 20th

century;" a surreal story of ductwork and bureaucracy run amok. A bureaucrat becomes an enemy of the state when he tries to fix a paperwork mix-up that led to the death of a shoe repairman. Monty Python meets *1984*. Terry Gilliam, director, UK, 1985, 131 minutes.

Chez Léon Menu

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



Wednesday, June 21 • *Chinese noodle & chicken salad, fresh fruit in red wine & ginger syrup*

Thursday, June 22 • *Salad Nicoise, veal piccata w/capers & pine nuts, bow tie pasta w/grilled vegetables & parmesan, walnut bourbon pie*

Wednesday, June 28 • *Pasta rolls stuffed w/ricotta, spinach & prosciutto w/sun dried tomato vinaigrette; green bean & roasted onion salad; coffee flan*

Thursday, June 29 • *Tomatoes, fresh mozzarella & basil salad; fisherman's platter; small roasted pink potatoes w/garlic & rosemary; vegetable of the season; Pavlova w/seasonal berries & cream*

CLASSIFIEDS

■ VEHICLES

1994 Corvette Coupe, fully equipped, low mileage, very clean, \$29,000. Call Jim at x3371 or 815-729-9072.

1988 Mercury Cougar XR7, red, many power opts, light group, towing cap. of 2,000 lbs., 5.0 V8 gets up to 24 mpg, excell. cond., high miles, \$3,600. Call TJ at x4777.

1987 Nissan Maxima SE, 4 dr., 6 cyl, auto, air, leather, trip computer, excell. cond., 65k miles, \$5,800. Call Geoff at x5407 or 708-778-0235 (gone till 6/27).

1986 Olds Firenza, 4 cyl, auto, air, AM/FM stereo, some rust, pwr brk & steer, extra low orig. mi.: 56k, \$1,700 o.b.o. Call Lloyd at x2990.

1990 Stratos 289 fish & ski boat w/ Evinrude 150XP outboard motor, OMC Cobra trolling motor, Interphase fish locator, custom Stratos trailer, skis & knee board, fully rigged w/ extras, garage kept, excellent cond., \$11,000. Call Jim after 5 p.m. at 708-897-3245.

■ MISCELLANEOUS

Toro 21" lawnmower, rear bagger,

14 yrs. old, no safety features, light use, good cond., runs fine, \$50. Call Tom at x4458.

Bedroom set, full size mattress, frame, dresser & nightstand, \$100; 3-sp. ceiling fan w/lights, \$25; 3-way speakers, \$50/pr.; Panasonic vacuum cleaner w/ attachments, \$50; 2 cribs, natural wood w/mattresses, \$65/\$75. Call Kevin at x4959 or 708-910-7423.

16 ft. above ground pool w/filter, skimmer, liner, ladder & complete instructions, 4 ft. deep, \$200. Call Lee at x8236 or 708-897-8643.

Weber Duo Art reproducing console piano, reproducing mechanism in unrestored condition, piano in good condition, many reproducing rolls & some books available. Call Joy at x8209.

Callaway Big Bertha woods golf clubs, like new. Driver, deuce, #4. Call Jim at x4293 or 708-416-0548.

Lawnmower w/mulching blade, \$55 o.b.o. Call Taneuja at 708-406-0430.

■ PETS

Baby ducklings, \$2 ea.; Peafowl chicks,

\$15 ea.; 2 free 6-week old kittens. Call Edie at x3621 or 815-496-9434.

Free to good home: 3 yr. old male cat, black & white, neutered, all shots, very affectionate & playful. Call Darryl at x2901.

■ NEEDED

Transportation needed 1 day/wk. for visually-impaired person w/excell. mobility, no dog & flexible time sched. From Naperville (Washington @ 75th) & Ind. Cnt. Bld. Call George at x2899 or 708-416-3875.

■ SEEKING INFORMATION

Anthony Zerbe, an Arts Series performer, is seeking information about a family whose little girl is in need of a kidney transplant. He spoke with this family March 25, 1995 at the reception following his Laboratory performance of "Behind the Broken Words," and he doesn't know their name. He wishes to contact them. Anyone who knows this family or has information regarding them, please call Arts Coordinator Janet Mackay at x2059. All information will remain confidential.

FermiNews

*The Newsletter of the
Fermi National Accelerator Laboratory*



FermiNews is published by the Fermilab Publications Office

MS 107, P.O. Box 500 Batavia, IL 60510 • 708-840-3278 • TECHPUBS@FNAL

Fermilab is operated by Universities Research Association, Inc.

under contract with the U.S. Department of Energy

The deadline for the
Fri., July 7, 1995 issue
is Tues., June 27.

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