

Fermilab/URA Reach First License Accord

By John Paulk

Marking an official entry into transferring technology to industry for commercial purposes, Universities Research Association, Inc. (URA) and Vern Kiebler Associates, Inc., recently signed a product license agreement. The license permits Kiebler Associates of Wheaton, Illinois, to commercially manufacture and market a high-voltage power supply developed at Fermilab by Tom Droege. In exchange for the technology received, Kiebler Associates will pay URA a percentage of the sales price as royalty.

Since this was the first license negotiated by URA and Fermilab, it involved a great deal of work on the part of many people. URA personnel including Ezra Heitowit, Vice President/Secretary of URA, and Maurice Glicksman, Provost at Brown University and Chairman, Administrative Committee of the Board of Trustees, along with Bruce Chrisman, Fermilab Associate Director for Administration, and Chuck Brown, Chairman of Fermilab's Sub-Committee for Electrical Safety, suggested innovative techniques to allow the power supply to be used in a less sophisticated environment than Fermilab. Bob Fieseler of the Neuman,

Williams, Anderson, & Olson patent law firm retained by URA/Fermilab, processed the patent documents and drew up the license agreement. He worked closely with Bill Schmidt, Fermilab general counsel, and John Albrecht, patent counsel for the Department of Energy's (DOE) Chicago Operations Office. The general licensing activity was handled by John Paulk, Fermilab license officer, and Dick Carrigan, Head of the Fermilab Office of Research and Technology Applications in the Director's Office.

The power supply is used to provide a selectable, precise current and voltage to drift chambers. Drift chambers are used for detecting and tracking particles during collider or fixed-target interactions. Several hundred power supplies are needed for the drift chambers in the collider-detectors at B0 and D0. Because drift chambers are usually located in inaccessible areas, a great improvement over an earlier design allows the power supplies to be remotely monitored and controlled by a computer.

Each power supply is very compact, about the size of a 35 mm camera so they can be closely mounted,

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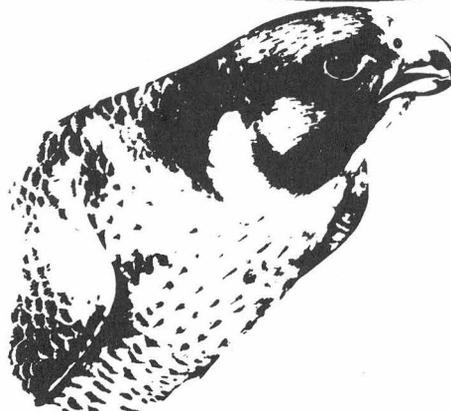
Perching Peregrine Resides at Fermilab

An endangered species of bird, a peregrine falcon, has found a home at Fermilab. The perching peregrine occupies a ledge on the 13th floor of Wilson Hall (apparently the bird is not superstitious). Peregrine, a Latin derivative, means wanderer. This falcon lives up to its name, having called the rooftop, 14th, 13th, 12th, and 5th floors of Wilson Hall home.

The peregrine falcon was put on the endangered species list in 1973 after studies showed DDT to be a harmful factor in the natural reproduction of the species. When DDT use was finally restricted, peregrines were successfully bred in captivity. Through efforts of concerned individuals, these peregrines were released into their natural habitats through a pro-

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You don't need my eyesight to find a copy of the all-new, 20th anniversary, Fermilab 1987 Annual Report. Just call or write the Publications Office, MS 107, WH 3E, ext. 3278, or stop by and pick one up.



Benefits Notes

TIAA/CREF Representative at Fermilab

In recent weeks you have received what looked like volumes of information from TIAA/CREF regarding all the new changes. If you did not have a chance to read all the material, understand it, or if you have questions, now is your chance to find out about the Money Market account, daily participation, etc.

Three employee meetings have been scheduled with Tom Koob from TIAA/CREF. Where: Ramsey Auditorium, Wilson Hall. When: Tuesday, May 24, 1988. Times: 8:00 a.m., 10:00 a.m., 1:30 p.m.

Each meeting should last between 1 and 1-1/2 hours. If you plan to attend a meeting, please get prior approval from your supervisor.

Alert - Parents of 1988 Graduates

College graduation is around the corner for some employees' dependents. If they are enrolled in the Lab's medical and dental plans, their coverages terminate on graduation day, unless they will continue as full-time graduate students and are under 23 years old. If they do not have group medical and dental coverages elsewhere, they can elect to continue on the Lab's plans. Please call the Benefits Office at extensions 3395 or 4361 for additional information and an election form.

- Paula Cashin



'Wellness Works' News

WELLNESS Stepping Out

Now that you have walked in the Illinois Employee Fitness Day Walk/Jog Event and know that you can walk at least two miles, how about keeping those walking shoes on and joining the Wellness program's Walking Club?

The Walking Club is designed to be a flexible program tailored to your lifestyle and time frame. You can walk anywhere at anytime. However, you must walk a minimum of three times a week at the recommended mileage in the plan you select.

If you wish to participate or want more information, please pre-register for the first meeting by calling Dotti at ext. 4367. The meeting is scheduled for Wednesday, June 1, 1988 between 12:00 noon and 1:00 p.m. in Curia II (WH2W).

Consult your doctor before beginning a regular walking program, especially if you're out of shape (haven't exercised in years), have a heart condition,

or are seriously overweight. If your doctor says "go for it," lace your most comfortable supportive shoes, stand straight, pull your shoulders back, tuck your stomach in, breathe slowly and rhythmically, and go! In just weeks you will see the benefits - a mentally and physically stronger you!

- Paula Cashin

"License" continued from page 1

eight across, onto a common-sized printed circuit board. The board with eight units attached is packaged as a module that plugs into a standard electronic crate of the type extensively used at Fermilab and other facilities.

Kiebler Associates is a small-business electronics firm. They have done business with Fermilab for many years and are a frequent manufacturer of electronic components needed for the research program.

Tom Droege, a senior engineer working with the Collider Detector at Fermilab (CDF), invented the HV supply in response to the CDF design group's specifications. He filed a Record of Invention late last year and, subsequently, assisted by patent attorney Bob Fieseler, filed for patent. Tom is currently testing and putting final touches on an operational prototype so that it will be ready for production later this year. An earlier power supply developed by Droege was commercially manufactured by Kiebler and sold in hundreds to places all over the world.

Under provisions of federal legislation and the prime contract with DOE, URA may claim patent rights for technology developed at Fermilab. This is a relatively new government program. With a valid patent, URA is permitted to seek a royalty-bearing license agreement with firms in the private sector who may be interested in manufacturing and marketing the product. Royalties from the product sales are used to reimburse the costs of patenting and commercializing the product. Depending on the amount of royalties received, up to 50% are also shared with the inventor(s).

The Laboratory is currently soliciting licenses with industry for several inventions to which URA holds patent rights. Other inventions are being evaluated for patentability and market potential. As part of this ongoing program, it is important for all employees to report to the Office of Research and Technology Applications (ext. 3200) any new inventions developed in connection with their work at Fermilab.



Percentage of dogs that are overweight: 40

- Harper's Index



The Activities Office.

Tennis Leagues Forming

Have you noticed that spring keeps coming and going? Are you ready to start playing some semi-serious tennis? Activities available may include an Industrial Tennis League, Sunday Night Doubles (A) League, (A) Singles Challenge Ladder, (A) Doubles Challenge Ladder, (A)- and (B)-Level Singles Tournaments, (A) Doubles Tournament, and a Mixed Doubles Tournament.

Interested? Sign-up?? Questions??? Suggestions???? Contact Linda Even at ext. 4847 between 12:00 noon and 1:00.

Once set up, the challenge ladder will be posted by the tennis courts. From that point on, add your name to the bottom of the list and start working your way to the top!
- Linda Even

Canoe Rentals

Canoes may be rented through the Recreation Office. Rental is \$5 per day. Advance reservations and payment *must* be made prior to canoe pickup. For further information or to reserve a canoe, call Jean at ext. 3126.

Scuba Classes

The Recreation Office is looking into the possibility of offering evening scuba lessons at the Village pool. If you are interested, call Jean at ext. 3126 by June 1, 1988.

- Jean Guyer

"Peregrine" continued from page 1

cess called "hacking." Hacking involves raising young falcons, or eyases, in wooden crates structured in such a way as to allow the birds to see their natural surroundings, but not the humans who feed and observe them. When the eyases reach a stage where it is determined they can fend for themselves, they are released into the wild.

Having this bird with us is a rare occurrence, according to Vicki Byre of The Chicago Academy of Sciences. She and Mark Spreyer, an ornithologist with the Academy, have observed the falcon here. Our peregrine, a male named Perry Green by Spreyer, was part of a two-stage, 11-bird release that took place last year at Fort Sheridan, Illinois. He will be a year old in May. Right now he has his immature plumage, which is a dull brown, although his back is showing adult gray plumage as are parts of

his wings. Our peregrine is too young to mate. However, mating with an older female can occur.

Why has the peregrine chosen Fermilab as a place to live? According to Vicki, "To a peregrine the architecture of Wilson Hall suggests cliffs, which are natural dwelling places for birds of this kind." Fermilab was built on land that was historically a habitat for birds of prey and other species of animals that are no longer found in this rapidly developing, ever-expanding, populous region.

Vicki noted that mature peregrine falcons have established territories in the Chicago region adjacent to Lake Michigan, so this young wanderer probably flew south then west and found himself a haven while establishing territorial rights in this area of plentiful prey and open water. Falcons prey on pigeons or small birds. Vicki said that with this abundance of food and water, the peregrine could be a year-round tenant. The falcon has one problem. Fermilab is home to several pairs of great-horned owls, whose favorite food is baby peregrines. It is hoped that our falcon is too big for them to tackle. Said Vicki, "Fermilab should be proud of its peregrine because of all the areas it could have established as home, it chose Fermilab."

The peregrine will do well living at Wilson Hall, as his schedule parallels that of the human inhabitants. The peregrine has been observed moving about on his ledge about 7:30 a.m., preening his feathers and getting ready for his breakfast. He lifts from his perch about 8:00 a.m. in search of a tasty morsel, which is about the time the cafeteria begins to fill with human breakfasters. After eating, the peregrine settles down on his ledge to observe the goings-on around the Lab. Around 4:00 p.m. he begins stirring, as he will hunt once again before retiring for the evening. As the human inhabitants leave for the day, the peregrine leaves to hunt, being careful not to get caught in the evening rush. For avid birders and non-birders alike, Vicki indicated that these times are the best for watching his activity.

Along with the buffalo, the prairie, the many and varied species of flora and fauna, Fermilab can now add the peregrine falcon to its list natural wonders.

Connie Kania

Ratio of unexploded grenades, artillery shells, and landmines to sheep in the Falkland Islands: **1:4**

To people: **89:1**

Rounds of golf played in America each year: **400,000,000**
- from *Harper's Index*

Trudy's News from NALREC

According to the NALREC Committee meeting, the **Steak Fry** of April 29 was a tremendous success financially (that means it almost paid for itself). All who attended know that it was the best party we could have had to begin our spring/summer season. The steaks were great, the music was great, and the entertainment was also great for those of us who were close enough to hear it. Tons of new faces were there that evening, and we certainly hope to see them at every party. They are a *fun* group. Perhaps the big yellow chicken was part of their group?

The **Luau** is coming June 4. The tickets are only \$10 per person, and that includes a pig roast, authentic Polynesian dancers, a fire dancer, and a DJ playing all your favorites. Tickets must be purchased by June 1, 1988. Glenn Lee, Alma Karas, Keith Meisner, JoAnne Hall, Dominick Carullo, Jesse Guerra, and Trudy Kramer have the tickets, so please see one of us as soon as possible.

The **Hard Times Party** is now firmly scheduled for Friday, June 24. It seems some of you folks out there read *FermiNews* [Thanks - ed.] because the NALREC Board of Directors had phone calls expressing a preference for something other than pizza. Well. . . after much spirited discussion, I believe Tom Regan might be considering something else for dinner. Thanks to everyone for your interest. We welcome and encourage suggestions and/or comments from you regarding this affair or any other.

Again, the **Family Picnic** will be held Sunday, August 7, and for those of you who plan ahead, the **Christmas Dinner Dance** will be held December 17 in the Wilson Hall Atrium. Have a nice day!

River Rafting on the Wolf and Peshtigo rivers in Wisconsin includes golf and horseback riding. The Wolf River is basically a lazy river that provides plenty of time to relax and float for swimming and sunning before each white-water area of excitement. Date: June 25 and 26, one night's lodging and two days of rafting, for \$135. Date: July 22 to 24, two nights' lodging with two full days of rafting, \$165.

The Peshtigo River is a briskly flowing river, more exciting and fun filled. This event has two days of rafting and/or golfing, horseback riding, and outdoor cooking. Date: July 16 and 17, price \$149. All trips include deluxe transportation, Holiday Inn rooms, two days of rafting, breakfast, lunch, and dinners. Call Dominick, ext. 3187. - **Trudy Kramer**

The Film Society Presents:

Fitzcarraldo explores the obsession of Brian S. Fitzgerald, known as Fitzcarraldo, to build an opera house and bring Caruso to the jungles of Peru. Klaus Kinski stars in this Werner Herzog film shown on May 27 at 8:00 p.m. in the Ramsey Auditorium. Admission is \$2 for adults, \$.50 for children.

The Big Clock, a suspenseful *film noir* thriller. Time is running out for a newspaper editor as he tries to solve a murder in which all the clues point to him. Directed by John Farrow. Shown on June 10 at 8:00 p.m. in the Ramsey Auditorium. Admission is \$2 for adults, \$.50 for children.

FermiNews Cla\$\$ified Ad\$

5/20/88

FOR SALE

Motorized Vehicles:

JOHN DEERE RIDING LAWN MOWER, excellent condition. Call Barb, ext. 3865.

ELECTRIC TRI-KART. Used twice. \$1500 new. Any reasonable offer. Clifford, 365-2371.

Miscellaneous:

HEATHKIT ORGAN, never used, wood cabinet, double keyboard, color-glo. Best offer. Call Marilyn, ext. 4544.

RACCOON JACKET with hood, sporty, originally \$450, excellent condition, worn a few times, size small (9/10), \$125. 15" TRUE SPOKES, (taken from Seville Cadillac), 4 rims, \$150. Call Mary, ext. 3987.

Number of universities that have a Barbra Streisand Professor of Women and Men in Society: **1**

Number of deaths in America, since 1981, caused by vending machines having fallen on people who shook them: **8**

Number of clothes vending machines in Paris: **9**

Number of years it takes the average American car to produce its own weight in carbon: **1**

- from *Harper's* Index

FermiNews is published by the Fermilab Publications Office, P.O. Box 500, Batavia, IL, 60510 (312) 840-3278, Bitnet: TEC-PUBS@FNAL

Editor: R. Fenner Editorial Assist.: C. Kania
Fermilab is operated by Universities Research Association, Inc., under contract with the United States Department of Energy.