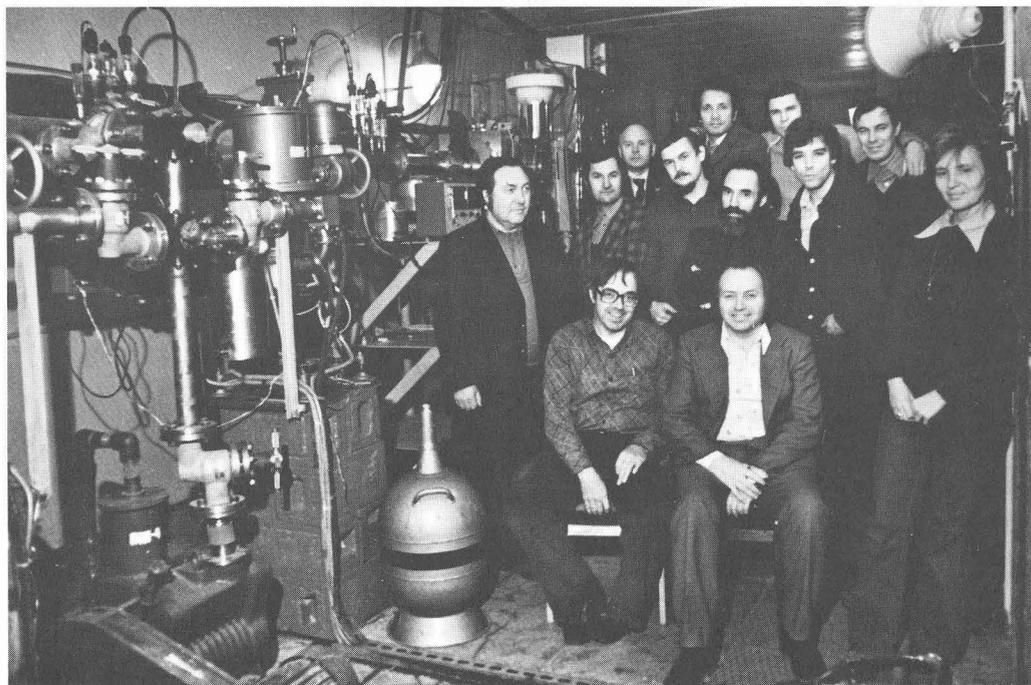


November 1, 1984

FERMI NATIONAL ACCELERATOR LABORATORY

FermiNews

YASHIK'S RETURN MARKS EXPERIMENT'S END



← Tim Toohig (seated left) and Edouard Tsyganov (seated right) of the Czechoslovak/Polish/Soviet/American Experimental Group at the Soviet Union's 10-GeV Synchrotron, Joint Institute for Nuclear Research, Dubna.

At Serpukhov, scientists (left to right) Turgun Nigmanov, R. Kadyrov, and N. Bulguhov prepare equipment for shipment to Fermilab. ↘

On May 18, a large wooden crate arrived at Fermilab from the Joint Institute for Nuclear Research at Dubna, USSR. The arrival of the crate marked the end of a journey that began last December, when Tim Toohig, with substantial help from Soviet colleagues, packed the equipment and accompanied it to Moscow on the first leg of its journey. For a while it looked like the saga of the crate ("yashik" in Russian) might have the makings of a great Russian novel about the yashik that traveled endlessly on all the roads of Siberia. Eventually the U.S. and Soviet bureaucracies meshed successfully and the poor yashik finally made its way to Fermilab.

The return of the equipment to Fermilab marked the end of the only Fermilab/Soviet experiment with American participation at a Soviet accelerator (actually at both the Dubna and Serpukhov accelerators), rather than Soviet participation at Fermilab. The experiment, which grew out of a Fermilab/Dubna collaboration at Fermilab, observed for the first time the bending of particle beams by perfect single crystals. It later pioneered the observation of a highly monochromatic radiation in the x-ray range emitted by positrons and electrons being channeled in perfect crystals. A



total of more than 14 publications in various professional journals resulted directly from the work.

The experiment began at the height of détente in 1978-79 when Tim Toohig stayed at Dubna for nine months, bringing with him the equipment now returned to Fermilab. A primary motivator in the experiment was Dick Carrigan, responsible now for the Fermilab Industrial Affiliates. Dick handled all the U.S.-side logistics, as well as the Fermilab end of the data analysis. The other collaborating group was at SUNY-Albany under C. R. Sun and W. Gibson, who provided for several graduate students to work at Dubna.

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Dick Carrigan (left) and Tim Toohig uncrate Fermilab equipment returned from Dubna after completion of a succession of experiments in the Soviet Union.

The collaboration continued up through 1983, when the Soviet group became increasingly involved in LEP experiments and the U.S. effort turned more to experiments at Fermilab. The increasing difficulty of maintaining communications due to the deterioration of U.S.-Soviet relations probably hastened the end of the experiment--though, hopefully, not the end of the relationship.



Dick and Tim both spent time in the Soviet Union over the course of the experiment. Tim, in particular, spent about six weeks per year after the initial stay of nine months. Invariably the Soviet colleagues treated them with warm hospitality. Living in a small town, which Dubna is, offered the opportunity to meet in day-by-day contact the whole spectrum of townspeople on a work-a-day basis. One may differ greatly with the Soviet system, but Tim says, "one's heart is left with these wonderfully warm people."

BLOOD PROCESSING FEES COVERED FOR EMPLOYEES

by Ed DiJak

To give...or not to give?...What is my motivation? Blood donating is an honorable thing to do for your fellow man as well as yourself, and do you understand the benefits you and your family receive?

In 46 of our United States there is no charge for the pint of blood itself. There is, however, a charge for the standard processing fees, laboratory, or administrative costs incurred by the medical institution providing the life-giving liquid. These fees can vary from small to not so small, and may or may not be covered by group medical insurance plans. At Fermilab employees are covered for these charges and some other miscellaneous charges and fees we may not be aware of at the time of our treatment.

In the Aurora Area Blood Bank pamphlet "Who We Are and What We Do," the statement is made:

The appeal for blood donations is made solely on the basis of providing a continuing and adequate supply of blood to meet the transfusion needs of patients. No quotas are ever established for any group. Blood is provided for all residents in the region served without regard for the ability to pay or donate and without obligation to replace any blood used. Upon request, blood will also be provided to any relatives of area residents needing blood in any hospital in the United States.

Persons donating because they think they will get special consideration or a price break will find that this applies only in four states. On the other hand, a person giving blood to help his fellow man, since blood cannot be manufactured anywhere



In Memoriam

Bud Stanley
1933-1984

Bud Stanley flourished as a familiar figure and one of the most effective managers within the Business Services Section. His thorough knowledge of Wilson Hall's electrical and mechanical systems enabled him to perform the landlord function in an exemplary manner. His high standards are reflected throughout the Laboratory and will be missed by all those he came in contact with. Harris Lee, who worked with Bud for five years, comments, "Bud taught us to be alert for anything unusual in the building, such as leaky valves, wet spots, door knobs that needed replacing, odors, or faulty lighting." Bud's dedication to these details resulted in greatly reducing the leakage problems in Wilson Hall.

Most of the secretaries of Wilson Hall will remember Bud for responding promptly to pleas, such as "I am too cold" (or too hot) or "the garbage chute stinks." It would usually only be a matter of minutes before Bud would appear to see what he could do to help. He cared, and it was shown in the minutes it took him to reply to a beeper call or to a conference organizer who needed him to move furniture.

Not only was Bud responsible for Wilson Hall, his group also took care of the Village (maintaining gutters, doing setups for parties, etc.) And, as if this wasn't enough, Bud was head of the Wilson Hall floor wardens.

Bud was also active and had wide respect in community affairs, serving as alderman of the Batavia City Council. From that position he spearheaded the installation of traffic signals at the Pine Street entrance on Kirk Road.

Hired in April 1971 as an electrician with the Plant Maintenance group, in May 1979 he was promoted to Head of Buildings Management. It is certain that Bud leaves Fermilab with a real loss and deep sense of grief.



Bud Stanley, left, shakes hands of John Paulk, middle, and Paul Sheets at the activation of the Pine St.-Kirk Rd. stop-light in 1982. Bud was not only Fermilab Buildings Manager but alderman for Batavia's first ward.

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but the human body, has the right motivation, and can donate knowing fully that they have helped a friend. If the number of blood donations drastically decreases we will be added to the list of states which charge for blood. I encourage each and everyone who can donate, to do so. For further information, call the Aurora Area Blood Bank, 892-7055.

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RAPS RAIDERS TAKE FIRST IN LEAGUE I VOLLEYBALL



Raps Raiders, captained by Don Rapovich, Plant Maintenance, and Mike Frett, Energy Support, ended the season with a record 23 wins, 1 loss which gave them the title of League I Volleyball Champions.

In the end-of-season tournament held the week of August 27, the Grounds Crew team captained by Manny Garcia emerged as Tournament winners.

Team Standings were as follows: 1st place, Team #8, Frett and Rapovich; 2nd place, Team #6, Angie Velasquez, Captain; 3rd place, Team #3, Manny Garcia, Captain; 4th place, Team #1, Wes Franklin, Captain; 5th place, Team #5, Larry Rodriguez, Captain; 6th place, Team #4, Gil McAuliff, Captain; 7th place, Team #9, Henry Ramos, Manny Shockley, Captains; 8th place, Team #2, Lisa Hernandez, Captain; 9th place, Team #7, Bill Bardeen, Captain.

Congratulations To . . .

Chuck (Accelerator Div.) and Susan (Tevatron Construction) Ankenbrandt on the birth of Alexander Chase on September 10 at Edward Hospital in Naperville. Alexander weighed 3.8 kilograms.

↖ Volleyball League I Tournament winners (left to right) are Manny Garcia, Marilyn Smith, Kaki Chandler, Dawn Cooper, and Ken Parker. Not pictured are Mike Becker, Edie Brown, and Debbie Appel.

Volleyball League I Champions (back row, left to right) are Dave Burke, Stan Boyson, Mike Frett, Joe Vella, Don Rapovich, Darrell Sigmon. Front row (left to right) are Dru Wallace, Debbie Ledder, Marcia Patterson, Linda Alsip, and Clare Morton. Not pictured are Jim Kalina and Daryl Robertson.



CLASSIFIED ADS TO BE DISTRIBUTED WITH **FERMINES** NOVEMBER 1, 1984

FOR SALE:

HOUSE: TOWNHOUSE IN WARRENVILLE. Five min. from Fermilab; 2-3 bdrm. ranch with finished bsmnt. Low \$50's or make an offer; occupancy negotiable. Call Henry Schram, ext. 3377 or 393-1711.

AUTOS: 1984 CHRYSLER. 5 spd., O.D., A/C, P/S, AM/FM, cassette/stereo, rear defogger, sun roof, garnet red/charcoal gray, 11,000 mi., \$11,500 or best offer. Call Art Streccius, ext. 4791 or 896-8298.

1979 1/2-TON CHEVY VAN. P/S, P/B, AM/FM cassette, semi-custom interior, new clutch, brakes, tires, battery, 68,000 mi.; runs well, body damage in rear, \$1,400. Call Tim Castellano, ext. 3979.

1978 CHEVETTE. A/T, A/C, 4-dr., 4-cyl., \$1,800. Call Joe Heim, ext. 3810.

1978 CUTLAS SALON OLDSMOBILE. V-6, 4-dr., A/C, P/S, cruise control, grn. Needs some body work, \$2100 or best offer. Call Art Streccius, ext. 4791 or 896-8298.

1977 CORVETTE. Red/black, 350-engine, 4-spd., 62,000 mi., many extras, \$9,000. Call Rick Gutierrez, ext. 3534.

1972 FORD TORINO. 4-dr., 8-cyl., P/S, AM/AF, A/C, runs well, winter tires, needs alternator, \$300 or best offer. Call Nikolic, ext. 4007 or 840-4899 evenings.

1966 CORVETTE COUPE. Custom fiberglass, needs paint, 350-engine 4-spd., \$6,000. Call Rick Gutierrez, ext. 3534.

AIRPLANE:

K-35 BEECH BONANZA. 200 hrs. SMOH on 250 h.p. fuel injected engine, Glide slope, DME, digital A.DF Cleveland brakes, gap seals, hangered Lockport, \$29,500. Call Bill, ext. 3862 or 985-9315.

MISC:

TIRES. 1 new mounted tire, F78-14; 1 old mounted spare, E78-14; best offer. Call Philip Reiner, ext. 4694.

SLATE BUMPER POOL TABLE. 40-in. x 55-in., includes balls, caulk, and 3 cue sticks; good condition, \$50. Call Ron, ext. 4070.

HOME CENTER I AUTOMATIC TELEPHONE ANSWERING SYSTEM. Used 2 months, \$60. Call Mark Eriks, ext. 3400.

MUSER BELL SET. Excellent condition. Call Mary Jane, 898-8683.

continued on reverse

WOODED 1 ACRE LOTS. Water front, utilities, on Seven Lakes 40 mi. west of Green Bay, Wisconsin. Call Art Streccius, ext. 4791 or 896-8298.

STEREO EQUIPMENT. For the following items call Tom, ext. 3230. Hafler DH100 preamp, \$125; TEAC V909RX tape deck, Dolby b&c, dbx, auto-reverse, remote, much more, \$375; Audio Source Eq I, spectrum analyzer/equalizer, \$225; Acoustic Research stereo remote control, \$100; Nikko ND 700II tape deck, Dolby & dbx, \$125; Sanyo turntable, quartz lock, direct drive, \$100; JBL 902VX, 12-in., 3-way speakers, \$175/pr.; (2) cases Maxell UDXLII-S tapes, \$28/case of 10.

STEREO AMPLIFIERS. DYNACO PAT-4 (preamp) and DYNACO ST-120 (60 watt/channel power amp), \$100 or best offer takes both! Call Bill, ext. 4821/3640 or 898-4917.

BABY NEEDS. For the following items call Greg Lawrence, ext. 3011. Child's car seat, \$10; Bike baby seat, \$5; potty chair, \$4; stroller, \$10; lg. asstmt. of toys and boys clothes (size newborn-6).

KITCHEN APPLIANCES. For the following items call Bruce Chrisman, 858-7860. Bronze G.E. double oven stove with auto. self-clean. and exhaust, \$150; bronze KitchenAid built-in dishwasher, \$75; stainless steel double sink, \$15.

APPLIANCES. For the following items, call Art Streccius, ext. 4791 or 896-8298: 3 compartment 62"x20"x15" sink; 40 gal. Reheem hot water heater, 20"x26" gas brick charcoal grill; 2 gyros machines; Star 2 burner electric food warmer; bar and recreation room wall decor.

WANTED:

FURNISHED RENTAL UNITS. Due to an increase in the number of experimenters requiring housing, the Laboratory is attempting to find furnished rentals in the area. If you anticipate a leave of 3 to 6 months and would like to sublet your house or apartment, please contact the Housing Office, ext. 3777 or John Barry, Accommodations Manager, ext. 3082.

HOMES FOR 3 KITTENS. 3-weeks old. Free to good homes. Call Elizabeth, ext. 3425.

LOST:

In Village, September 20. 7 Ecuadorian folkloric records. If found, please return to Graciela Finstrom, ext. 4645.

THANK-YOU:

Frank and Louise Beck would like to thank all Fermilab friends for their farewell celebrations and good wishes on their departure.