

May 3, 1984

FERMI NATIONAL ACCELERATOR LABORATORY

NEUTRON THERAPY FACILITY FIGHTS CANCER

by JoAnne Mansell

The staff of the Neutron Therapy Facility (NTF) are often asked how we decide which cancer patients should have neutron therapy. The NTF exists to do research and answer the question: "Is neutron irradiation better than standard photon irradiation for some kinds of cancers?" To answer this question, we must treat patients we hope to cure and who we expect will live long enough for us to adequately evaluate any long-term side effects that may appear. We do not use a research treatment, such as neutron beam therapy, when a particular patient has cancer that can be cured with a standard treatment unless the patient cannot or will not accept the standard treatment. Thus, the patients who are accepted for treatment at the NTF often have tumors that are large, that are located in inaccessible areas within the body, or that might not respond well to standard treatments. These patients must be well enough to have outpatient therapy, e.g., be able to travel to Fermilab, and they must agree to long-term follow-up. We do not usually treat patients who have had previous radiotherapy to the same area of the body, due to the limited tolerance of normal tissues to radiation. Most of our patients have neutron therapy as the first treatment for their tumors to enhance the chance of success. Treatment is given only when potential benefits outweigh any potential risks to the patient. Some patients give permission to be randomly assigned to receive for their disease either the best standard treatment or the neutron irradiation. Thus, they help us learn which one is better. Patients are never assigned to receive no treatment. As required by law, the NTF has an Institutional Review Board (IRB) that oversees the human side of our research and protects the patients' rights. The IRB must give specific approval for each treatment study to be done at the NTF. So far, over 1300 patients have been referred to the NTF from 156 hospitals. It should be understood that a patient has the right to the best proven therapy, but patients do not have the right to an



Left to right Frank Hendrickson, M.D., Barbara Bennett, Sulochana Yalavarthi, M.D., and Brian Pientak.

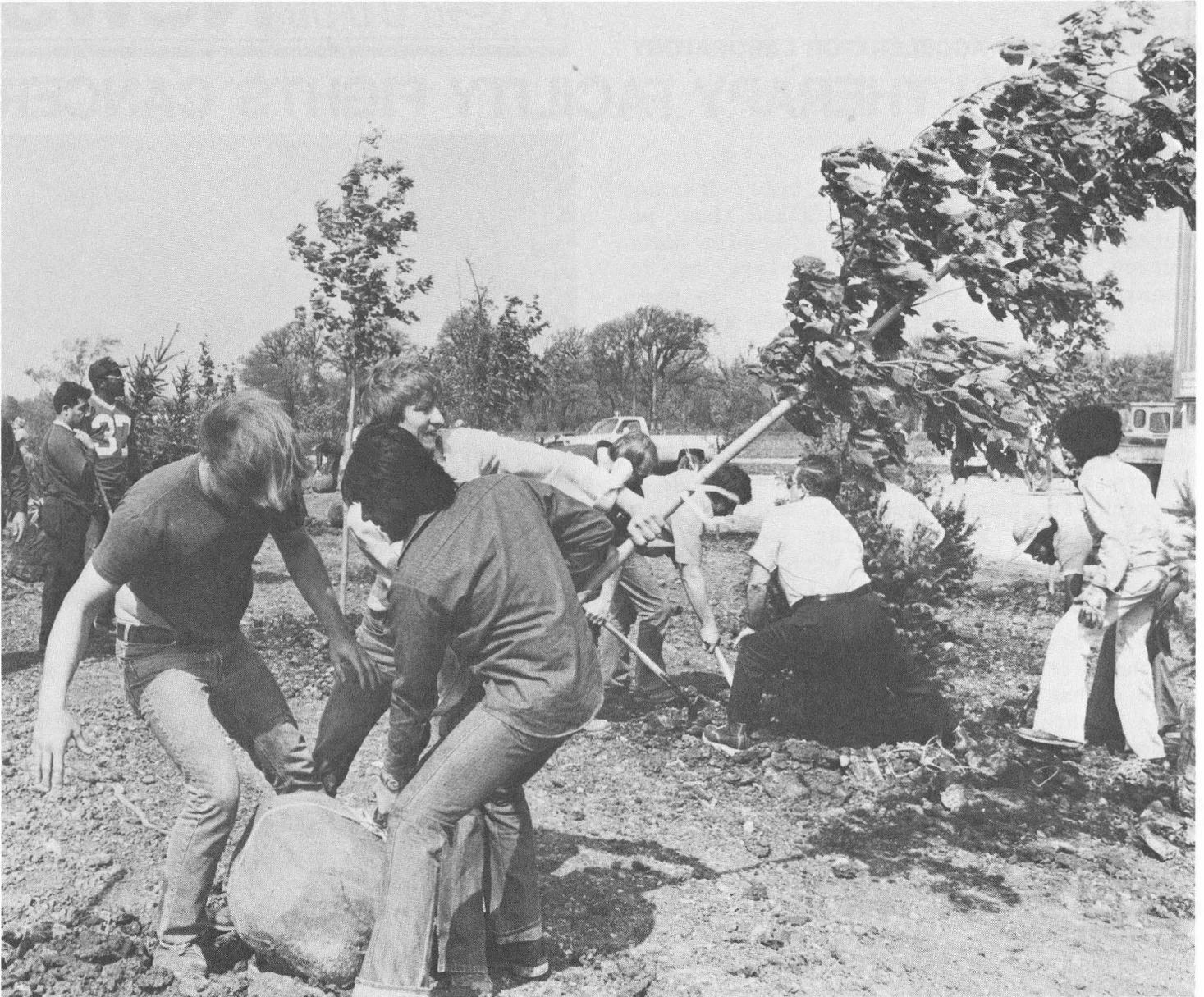
experimental therapy. It is only when research is conducted methodically and patients invited to participate in the research are selected carefully, that eventually the new therapy may be proven to be better, equal or, even, worse than the standard one(s). One of the functions of the IRB is to evaluate all available information about a proposed new therapy so that the outcome of the study may prove it to be either better than or equal to the standard one(s).

To inform the patients about radiotherapy research, the purposes of the IRB, their rights to confidentiality of data, and to withdraw from the experimental treatment, NTF has written an information booklet and pamphlets describing possible side effects and complications.

"Neutrons Against Cancer" Available

Fermilab employees who give talks to the public about the Laboratory are often asked questions about the Neutron Therapy Facility. A 4-page hand out entitled "Neutrons Against Cancer" and a set of commonly asked questions and answers about the NTF can be obtained at the Public Information Office. NTF staff will loan slides to speakers upon request.

CELEBRATE SPRING ON MAY 16 - HELP PLANT A TREE



Wednesday, May 16, is Fermilab's Arbor Day, and this year the Arbor Day Committee has chosen the Users Center area and Sauk Circle for beautification. Fermilab did not have an Arbor Day last year due to lack of funds. All of the trees will come from the Fermilab nursery. This year volunteers will plant dwarf apple and pear, red maple, sugar maple, lindens, river birch, and dawn redwood.

The Arbor Day Committee consists of Bob Hall, chairman; Sue Winchester and Judy Zielinski, publicity; Avril Quarrie and Bob Lootens, food; Treva Gourlay, Sam Childress, and James Bjorken, landscape design.

Volunteers are invited to plant 175 trees. To replenish volunteers' energy level, refreshments will be served. Tree planters will also be given a marigold or a tomato plant from the Fermilab nursery to take home. Holes for the trees will be pre-dug, shovels for filling the holes will be provided, but volunteers are encouraged to bring their own.

The fun begins at 11 a.m. at the Users Center. If it is raining, the planting will take place Thursday, May 17, at the same time and place.

CHAMBER MUSIC TRIO PERFORMS MAY 12 IN AUDITORIUM

by Jane Green

The New Arts Trio has "a collective personality that seems to sum up the joy of making music...which, after all, is the essence of chamber music." On Saturday, May 12, at 8 p.m. these "superior musicians" will perform a varied program of their favorites in Ramsey Auditorium.

The New Arts Trio features pianist Rebecca Penneys, violinist Piotr Janowski, and cellist Steven Doane. The Trio was the 1980 Naumburg Award winner and has done residencies at the Chataqua and Vermont Mozart Festivals. Presently, the members of the ensemble are on the faculty of the Eastman School of Music.

In concert here, the musicians will perform Mozart's Trio in E major, K.542. Their past performances of this work have been praised for "sustaining a delicious music box charm." Other selections include Charles Ives Trio of 1904 which the trio has played "with a clarity one hardly knew was contained there in" and Beethoven's "Archduke" Trio in B-flat major, Opus 97. Critics have hailed their "Archduke" Trio's "soft voicing and radiant textures," which reveal the New Arts Trio as "an ensemble settled into perfect oneness."

Plan to attend this enjoyable evening of chamber music with the New Arts Trio. Admission is \$6, and tickets are available at the Information Desk in the atrium of Wilson Hall, ext. 3353. Phone reservations are held for five days, but due to ticket demand, those reservations not paid for within five working days will be released for sale.



The New Arts Trio

FERMILAB PURSUES FICA ANNUITY PLAN TAX REFUND

by Ruth Christ

Employees who participate in Fermilab's annuity plans through salary reduction (tax-deferred) whose reduced salaries bring their taxable incomes below the Social Security maximum tax base in the years 1980 through 1983, **may** be eligible for a refund of the FICA (Social Security) taxes paid in each of those years. Social Security taxes were paid by the employee and the Laboratory on the deferred amounts as required by a 1965 Internal Revenue Service ruling. In 1981, a U. S. Supreme Court decision defined the term "wages" to have the same meaning for FICA withholding as it does for income tax withholding, absent Congressional action to the contrary. Based on this decision, institutions such as Fermilab maintain that FICA tax should not have been required on the portion of the salary reduced for annuity contributions. Congress acted to close this "loophole" effective January 1, 1984. Also pending is a technical corrections bill which would retroactively close any refund possibility.

For 1979, the Laboratory filed a protective claim to keep open the possibility of refund for its employees. This claim was denied by the

(cont'd. on pg. 4)

STOCKROOMS TO TAKE INVENTORY

The Wilson Hall Stockroom will close May 14 and 15 while the Stockroom at Site 38 will close May 16-18, 1984.

DIRECTOR SUPPORTS SAFETY GOALS

by Leon Lederman

As some of you may have noticed, new Occupational Safety and Health Protection Posters have been put up around the Laboratory. This poster outlines the rights, obligations, and requirements for DOE Contractors (Fermilab) and their employees. In particular, it tells you that DOE-mandated safety standards are available in the Safety Section, WH7E, for review by any employee. Also, employees may file safety complaints with the DOE using Form 5480.4 (also available on WH7E).

The Laboratory's safety record has improved considerably over the last few years. However, we intend to continue to strive for improvement. We know that a safe laboratory is a rich laboratory and this is our goal. As the working Laboratory employee, you have helped us obtain our record, and we need your continued support.

If you have questions or see a safety problem, ask your supervisor or your safety officer. You should not hesitate to bring unresolved safety questions to Larry Coulson, Head of the Safety Section, or me.

FICA REFUND. . .

(cont'd. from pg. 3)

I.R.S. Again, for '1980 the Laboratory has filed a protective claim to keep open the possibility of an eventual refund. If the Lab were to receive a positive response from the I.R.S., it would then file for a refund on behalf of all eligible employees who gave their consent.

Current thinking by Fermilab and similar institutions that have followed the events surrounding the Supreme Court ruling is that there is not much likelihood of a refund in the absence of a Supreme Court decision specifically addressing Fermilab-type salary reduction annuity plans. However, if a refund is possible all eligible employees will be notified.

1984 POOL MEMBERSHIPS ON SALE



The Fermilab Swimming Pool will open for the 1984 season on Saturday, May 26. Pool membership is open to Fermilab employees, visiting researchers, employees of DOE at Fermilab, Great Lakes Security personnel at Fermilab, their families, and accompanied paid guests.

Pool memberships may be purchased from the Receptionist in the atrium of Wilson Hall and at the Housing Office at Aspen East beginning May 1, 1984. They may also be obtained at the swimming pool the weekend of May 27 and 28 only! Season rates are \$20 for a single person; \$35 per couple; and \$50 per family. Daily charge for swimming is \$2.

Lifeguards are on duty 11 a.m. to 7 p.m. Monday thru Fridays; 9 a.m. to 7 p.m. weekends and holidays. The pool is restricted to adults from 7 to 9 p.m. The pool is closed from 9 p.m. to 6 a.m.

Swimming instructions will be available for children and will be taught by a certified water safety instructor. Registrations for lessons can be made with the lifeguards.

The swimming pool committee members include Don Carpenter, David Carey, Linda Finks, Duane Johnson, Joe Morgan, Jean Plese, and Jim Schiltz.

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FOR SALE

Woodhaven Lakes lakefront trailer lot, 60 miles west, with water, sewer, electricity, security; 24-ft travel trailer with fireplace, air conditioning, and awning; sleeps six; deck; matching tool shed with refrigerator/freezer, Weber barbeque, lawnmower, lawn chairs, picnic table and more. Pool, beach, sailing, fishing, golf, sports center nearby. Complete package \$13,900 or best offer. Call Bill, ext. 3779.

HOUSE: THREE-BEDROOM BRICK & ALUMINUM RANCH IN WEST AURORA. Full basement, energy efficient, corner lot with fenced backyard, 2-car garage, well landscaped, near schools, convenient shopping, nice area, 30 min. from Fermi. Call Dave Hanabarger, ext. 892-5077.

AUTOS: 1976 DATSUN 280Z 2+2. Air conditioned, AM/FM stereo, runs very well; some body rust, \$1100. Call Robert Trendler, ext. 3084.

1966 2-DOOR HARDTOP PONTIAC TEMPEST. Runs well, P/S, P/B, A/T, \$500. Call Robert Kingsley, 961-5561 after 6 p.m.

CYCLES: 1983 HONDA CB 1000 CUSTOM LOW RIDER. Black/charcoal, 1,085 mi. mint cond., case saver bars incl., \$3000. Call Dave, 892-5077.

1980 SUZUKI GS 750L. All stock, low mileage, excel. cond., adult driven, garage kept, best reasonable offer. Call Gene Opperman, ext. 4972 after 5 p.m. or 879-1755.

1973 HONDA 750. Low mileage, many new parts, fairing, etc. \$550. Call Merrill Albertus, ext. 4455 or 668-3474 after 5 p.m.

1968 HONDA CB 350. Luggage rack, runs very well, \$250. Call Robert Trendler, ext. 3084.

MISC: GAS GRILL W/STAND AND LAVA ROCKS. Operates on disposable gas bottle, never used, still in box, \$25. Call Bill, ext. 4597.

11-HP JOHN DEERE LAWN TRACTOR 38-IN. MOWER. Excel. condition 3 yrs. old, \$1250. Call Imre Gonczy, ext. 3128 or 554-1562.

QUALITY BEDDING PLANTS. 75¢/pack or \$8/12-pack flat at 940 Orchard Ct., Batavia. Call Howard Fulton, 879-7566 or ext. 3433.

TANDON DOUBLE-SIDED DOUBLE-DENSITY DISK DRIVE. Used in IBM PC, \$200. Call Jim, ext. 4460.

continued on reverse

MACRAME CORD. 90-yard rolls, different colors, \$2.50/roll. Call Greg Laurena at 557-2523.

MICHELIN STEEL RADIALS MXL 175/70R13. New warranty, driven 350 miles 4 tires, \$35/ea. Call Bob Flora, ext. 3769 or 879-5079.

For the following items, contact LaDaune, ext. 3022. KENMORE ZIGZAG SEWING MACHINE, excel. cond., \$25; HOTPOINT GARBAGE DISPOSAL, new, \$30.

For the following items contact Chuck Serritella. Two 15-in. BUICK RIMS, both \$5; oak 3/4-size BED FRAME, \$45.

For the following items contact Homer Clover, ext. 3685 or 554-1375 after 4:30 p.m. CHAMBERLAIN MODEL 333C 1/3 HP CHAIN DRIVE GARAGE DOOR OPENER, reverses direction if obstructed going down, vacation/security switch deactivates wall-mounted receiver, solid state digital transmitter with choice of 960 different codes; SEARS 4500-BTU 110-VOLT WINDOW AIR CONDITIONER, good condition, \$35; WHIRLPOOL 8000-BTU AIR CONDITIONER, good condition, \$40.

For the following items, call Harry R. Barber, 448-8640. REDWOOD PICNIC TABLE WITH BENCHES, \$75; UTILITY SHELVING (4 shelves), \$7; 5-SHELF WOOD CABINET, \$30; 2-DR. BROWN STEEL WARDROBE, \$15; ELECTRIC SEED-GROWING KIT WITH PLASTIC COVER, \$10; PIPE STOCK AND DIE SET (4 dies), \$10; PICTURE FRAME ASSORTMENT, various sizes, \$15.

WANTED: FURNISHED HOME TO RENT. For two adults and one child, for about a year beginning early summer, 1984; willing to undertake house-sitting responsibilities in return for reasonable rent. Leave message for Ravi Kumar at Users Office, ext. 3111, or in Canada (416) 536-4997.

LOST BEIGE LONG-SLEEVED SWEATER RETURNED. Call Carlos, ext. 4400.

FOREIGN AND COMMEMORATIVE U.S. STAMPS. Contact Graciela Finstrom, ext. 4645 or mail to MS#316.