

November 10, 1983

FERMI NATIONAL ACCELERATOR LABORATORY

# FermiNews

## FERMILAB RECEIVES FOUR I-R 100 AWARDS



*Left to right, Bob Ferry, Fred Walters, Claus Rode, and Jay Theilacker toast the award-winning helium transfer line.*

### by Margaret Pearson

Fermilab was the recipient of four 1983 "I-R 100" awards at a banquet at the Museum of Science and Industry in Chicago on Thursday, September 22. The awards are given annually by **Industrial Research and Development Magazine** to the 100 most significant technical products of the year. Fermilab's winning entries were the Tevatron helium line; the ECL-CAMAC ultra-high speed computer used in the Tagged Photon Area; the slip-ring stepping motor mounted in the fringe field of the 15-ft bubble chamber, and a precision electric current sensor for the Accelerator Division. The winning devices are pictured in a display in the atrium of Wilson Hall.

Attending the dinner were the individuals or group representatives involved in the design and development of each of the winning devices.

Fermilab joins some of the most prestigious U.S. industrial representatives in the I-R 100 competition. The General Electric Company, for example, has received 151 I-R 100's in the 20 years the contest has been held. Varian Associates Inc. and Westinghouse Electric Corp. have received 63 and 52 respectively. Several national laboratories also compete.

*(Additional photographs on page 2)*

# I-R 100 AWARDS RESEARCH TECHNOLOGY



*Hans Kautzky and Mrs. Lee Mapalo. Her late husband assisted Hans Kautzky in the development of the slip-ring motor.*



*Frank Cilyo (left), developer of the current sensor, and Phil Livdahl, who accepted the awards on behalf of Fermilab, at the black-tie dinner.*

Fermilab's participation in the I-R 100 is another phase of its attempts to demonstrate that the basic research of the Laboratory produces new technology which is available to private industry for commercial development.



*Bruce Merkel, Bill Haynes, and John Stoffel (left to right) represented the Trigger Processor development group at the "I-R 100" awards banquet.*

## ADAMS LEADS NEW SERIES

Ruth Adams, editor of the **Bulletin of Atomic Scientists**, will give the opening lecture in Fermilab's second lecture series on "Arms Control and International Security" on Thursday, November 10, at 8 p.m. in Ramsey Auditorium. No advance reservations are necessary for this free lecture.

The title of her lecture will be "The Political Realities of Arms Control."

Adams has been editor of the **Bulletin of Atomic Scientists** since 1978, following a previous stint there in the 1960's. Her interest in security and science was also fostered during the time she worked for the American Civil Liberties Union. She has also been involved in scientific and technological development in East Africa.

Adams has edited two recent books published by the **Bulletin**: "The Soviet Union Today, An Interpretive Guide," and "Final Epidemic." At Fermilab she will discuss the role of the **Bulletin** over the years as a voice of the international science community concerned over trends in the nuclear arms race, and she will describe the political realities of arms control.

This lecture series will bring several distinguished speakers to Fermilab to share their viewpoints on the general subject as well as their insights on particular aspects of arms control and international security. A similar series two years ago drew wide public interest. In announcing the new series, Fermilab's director, Leon Lederman, said, "I feel Fermilab has a particular responsibility to make the technical questions associated with defense policy and arms control accessible to all citizens. We will try to present a balanced menu of speakers so that the audience can be exposed to a variety of perceptions."

Ruth Adams replaces a speaker previously announced for this date.

### Congratulations To...

Annette (Physics) and Larry Bays (Research Division Office) on the birth of Amanda Leigh on September 28 at 9:53 p.m. at Delnor Hospital in St. Charles. Amanda weighed 5 lbs. 13 oz.

Sympathy is extended to the family of Carol Davis (Accounting) on the death of her brother Eric Sturghill, 22, a Lance Corporal with the U. S. Marines stationed in Lebanon.

## CHARITY FORMS DUE DECEMBER 2

The time of the year has arrived when employees are asked to contribute to charities through payroll deductions or one-time contributions. Using the payroll deduction plan, an employee may choose up to three charitable organizations, including a community fund.

Employees have received the authorization forms. The participation is voluntary. No pledge below \$12 for 1984 can be accepted through the payroll deduction plan. The selected charities must be among those approved by the Internal Revenue Service. Authorization forms are due in the Payroll Office by December 2.

The payroll deductions an employee designates will be made each pay period beginning January 1, 1984, and will continue throughout the year. At the end of 1984 employees taking advantage of this plan will receive a statement of their contributions for income-tax purposes. Pledges for the 1983 year will end December 31 unless they are renewed.

## TURKEY RAFFLE, PARTY NOVEMBER 18

NALREC will sponsor a Thanksgiving party on Friday evening, November 18, from 5:15 p.m. to 10:30 p.m. in the Village Barn. Entertainment will be "Final Touch" band with Tony Maldonado, DJ. Italian beef sandwiches will be served, and 50 turkeys will be raffled. Raffle tickets can be obtained from any NALREC representative. For further information, contact Sharon Koteles, ext. 3598.

### A NOTE FROM JOANIE'S FAMILY

The Bjorken family and Joanie Bjorken's parents are most grateful to the wonderful people at Fermilab for their love and many kindnesses.

The unusually beautiful fall season this year added a sense of comfort and tranquility.

# GOLF SEASON ENDS, LEAGUE WINNERS ANNOUNCED

by Gene Dentino

1983 saw the Fermilab golf league expand from 20 to 26 teams. The 6 team expansion played at Phillip's Park in Aurora. The 20 established teams remained at Fox Valley Country Club in Aurora. The three first place teams played for the league championship at the annual outing on September 10. The league also organized two laboratory-wide, mid-season outings.

The league had two rare and exciting holes-in-one this season at Fox Valley Country Club. On May 18, 1983, Joe Miller hit a 5-iron 176 yards on the 9th hole and on August 3, Jack Rossetto hit an 8-iron 167 yards on the 15th hole. Well done!!

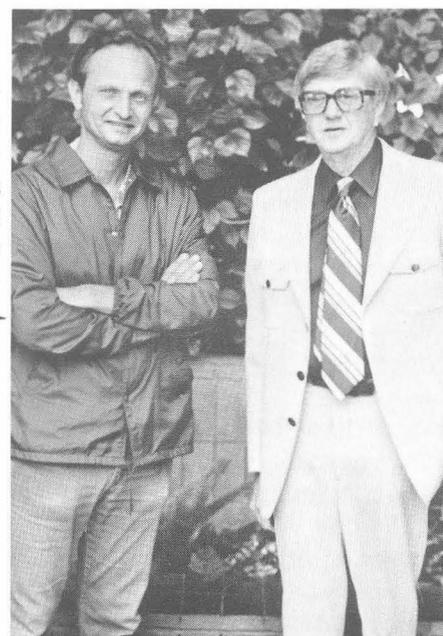


First place, Tuesday night, Fox Valley, left to right, Don Tinsley, Ron Currier, and Frank Juravic (not pictured is Randy Currier).

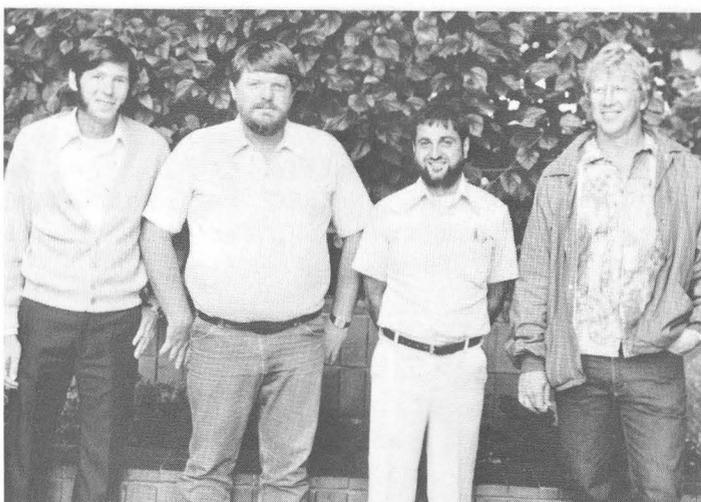


First place and league champions, Wednesday night, Phillips Park, left to right, Ed Crumpley, Jeff Western, and Al Flowers (not pictured is John Bell).

Jack Rossetto, Magnet Test Facility, and Joe Miller, Contracts. Both stars were on the Wednesday night Fox Valley league. →



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1983 Golf Committee re-elected to serve for 1984 (left to right) Ed Wilmsen, Al Jones, Gene Dentino, and Frank Juravic (not pictured is Bill Noe, Jr.).



Fox Valley Wednesday night first place (left to right) Ralph Wagner, Jim Schiltz, Ed Pietras, and Dave De Witt.

CLASSIFIED ADS TO BE DISTRIBUTED WITH FERMINES NOVEMBER 10, 1983

FOR SALE:

CONDO: TWO-BEDROOM CONDO ON FAR-WEST SIDE OF BATAVIA. Liv. rm., din. rm., kit., studio/rec. rm., 1-1/2 baths, utl. rm., 1-car gar., patio, stove/refrig., dishwasher, washer/elec. dryer, fully carptd., immac. cond., 2-yrs. old. \$70,000 - assoc. fees \$30/mo. Call after 3:30 p.m., 879-9034.

TRUCK: 1981 FORD F-150 SUPERCAB PICK-UP. 8-ft cap, 302 V-8 engine, lariat trim, auto-overdrive trans., air cond., FM stereo, CB, Rusty Jones, trailer-towing pkg., 26,000 mi. \$8,900. Call Bill Riches, ext. 3779.

1980 SILVER BLUE AUDI 4000S. 5-cycl., sun-roof, AM/FM/cassette, A/C, 34,000 mi. \$6,600 or best offer. Call 369-2090 or Parvathy, ext. 3865 (Tues., Thurs., and Fri.).

1980 DODGE OMNI 024. 4-spd., P/S, A/C, AM/FM, 28,000 mi., excel. cond. \$4,100. Call Cathy, ext. 4168.

1978 FORD PINTO. 4-spd., AM/FM stereo 8-track, winter tires, rear defog., new exhaust, new powr. brakes, battery, radiator, runs well, 72,000 mi. \$1,300 or best offer. Call Mark, ext. 4891 or ext. 4237 (village house).

1972 4-WHEEL DRIVE INTERNATIONAL SCOUT II. Small V-8, auto trans., A/C, P/S, P/B, no rust, newly painted. \$2,200 or best offer. Call 232-2054 or ext. 4530.

MISC: 1979 YAMAHA 400 MOTORCYCLE. 2-cyl., 4-stroke, 14,000 mi., \$800. Call T. J. Gardner, ext. 3699 or 897-9656.

ATARI VIDEO COMPUTER SYSTEM. 1-yr. old, 6 cassettes. \$75. Call 896-8997.

HP-41CV SYSTEM. Includes HP-IL interface loop, HP-IL printer/plotter, optical wand, magnetic card reader, extended functions/memory ROM, circuit analysis ROM, high level math ROM, 8K PPC ROM w/500 pg. manual, synthetic programming text, all manuals and original boxes and extensive software-file management library. Hardware alone orig. over \$1,100--Sell for \$395. Contact Ken Kaczar, ext. 4200 or 3630.

FIREPLACE MATERIALS. Brass fireplace screen w/andirons, \$75; fireplace tools, \$25; ceramic gas logs w/lighter, pan and cinders, \$95. Call Bill Riches, ext. 3779.

ESTEY ELECTRONIC SPINET CONSOLE ORGAN. Good cond., best offer. Call Ron Rioux, ext. 3128 or 231-1083 after 5 p.m.

continued on reverse

AUTO SOUND EQUIPMENT. AM/FM in-dash stereo cassette with digital readout and clock, \$60; AM/FM stereo fits '80-'84 Chrysler, \$35; AM/FM universal, \$10; Motorola AM/FM stereo universal, \$25; Pioneer FM cassette under dash, \$30. Craig 50-W Booster, \$30; 4-channel 120-W booster (new, in box), \$50; 60-W 7-band equalizer, booster, \$35. Call Ken Sievert, ext. 4467 or 985-3188.

BICYCLES. Boy's 20-in. Schwinn, 5-spd, good cond., \$40; Woman's 6 mo. new, 3-spd, 26 in., perf. cond., \$50. Call Ed, 690-1145.

WHEEL RIMS FOR 1978-1983 GM INTERMEDIATES. One rim w/tire in fair cond., \$30. Call Michael James, ext. 4755.

TIRES. 2 radial snow tires, size CR78-13, WSW, 1000 mi., \$60 pr; 2-std. steel 13"x5" rims to fit small Ford (Mustang II or Pinto), \$5 ea; 2 Goodyear Polysteel Radials, raised white letters, size 195R13, one almost new, \$40, one with 30K mi., \$10. Call Dave, ext. 3354 or 851-4581 after 6 p.m.

SNOWTIRE. One 8.75x16.5, \$20; call Bill Riches, ext. 3779.

CROSS-COUNTRY SKI EQUIPMENT. 1 pr. Trak boots: women's, high, blue leather, plastic 50-mm sole, size 39 (7-1/2 or 8), \$35; 1 pr. Trak 50-mm bindings, \$15; 1 pr. Haugen boots: women's, low, 75 mm, tan leather, size 37 (6), \$10; 1 pr. Haugen boots: men's, low, 75 mm. tan leather, size 40 (9), \$15; 1 pr. 75-mm bindings, \$3. Call Dwaine Johnson, ext. 4921.

LAWNMOWER AND SNOWTHROWER. 11-HP John Deere lawnmower, 3-yr. old, 38-in. mower deck, \$1,200; Toro 724, 7-HP, 2-stage snowthrower, \$600. Imre Gonczy, ext. 3128.

1983 25-IN. RCA XL100 TELEVISION. \$400. Call Manny, ext. 3303.

MONTGOMERY WARD 10 CU. FT UPRIGHT FREEZER. 2-yrs. old, like new, cream color, \$150. Call Michael Walya, ext. 3366.

2 SANSUI SP 3200 SPEAKERS. 4-way 6-speaker system, 12-in. woofer, like new, 12x16-1/2x25-1/2 size, \$80 ea. Call Michael, ext. 3366.

FEMALE BLACK DOBERMAN. Friendly, 2-yrs. old, super bloodlines out of Ch. Matist Euripides Vom Orex. Call Shirley, 279-4388 or Edie, ext. 3621.

BABYSITTING. Small infants preferred. Call Ruth, 393-3241.

**WANTED:**

TOYS FOR KIDS. The Lending Toy Library is in need of complete games and soft toys in good, clean condition, for the children (between ages 6 mo. and 12 yrs.) of visiting scientists. Contact Louise, ext. 3211 or 840-3549.

23rd. ANNIVERSARY ENTERTAINMENT '84 DISCOUNT COUPON BOOKS. Save 50% on dining, movies, sports, hotels, and more. For more information, contact Bill Wickenberg, ext. 4381.