

The Village Chief

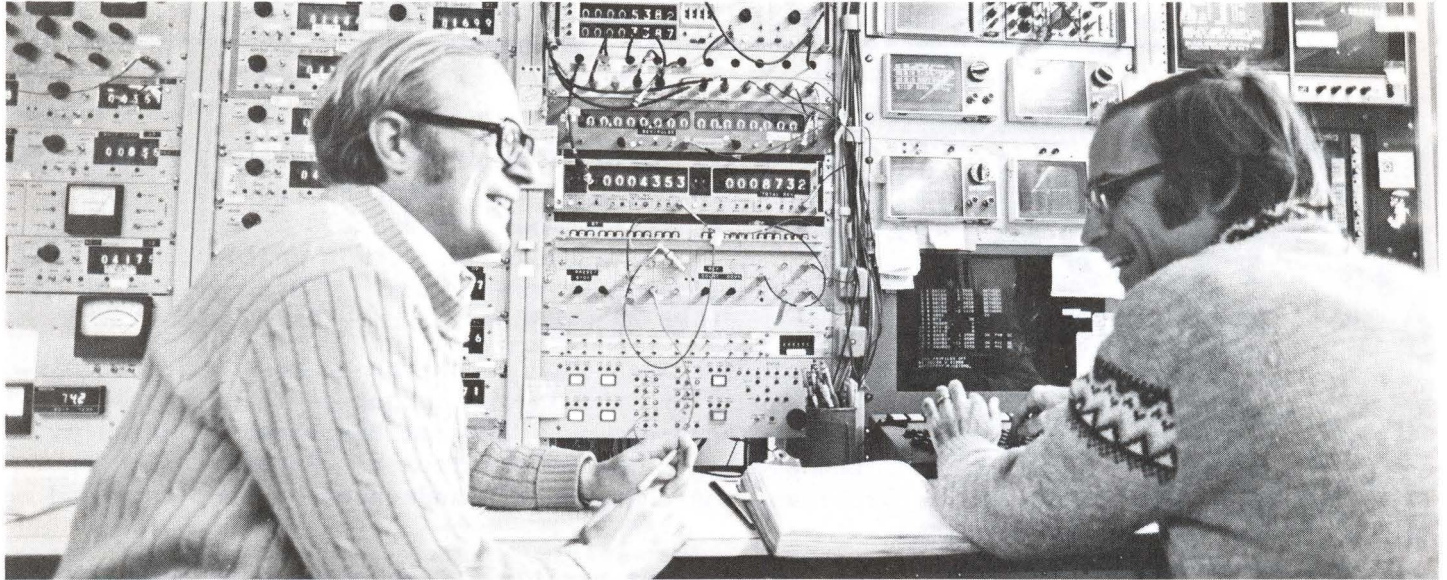


fermi national accelerator laboratory

Operated by Universities Research Association Inc.
Under Contract with the U.S. Department of Energy

Vol. 10, No. 5

February 2, 1978



...Experimenters Robert Diebold and David Ayers wrap up E-99's run...

E-99 ENDS RUN

Experiment 99, a ANL/Fermilab/Stanford University collaboration is finishing its data collection with a long run which began in November. The experiment uses the Single Arm Spectrometer, located in beam M6E, to observe reactions such as $\pi^+p \rightarrow K^+\Sigma^+$ and $\pi^+p \rightarrow K^+Y^{*+}$. The chances of producing such reactions are down by a factor of several thousand from that for elastic scattering.

The experiment is only made possible by the very good momentum resolution of the beam and spectrometer and by the eight Cerenkov counters which allow a clean rejection of other types of events such as elastic scattering. No other laboratory in the world has been able to study these reactions above 14 GeV/c - not even CERN has the capability of identifying these reactions at our energies.

In previous experiments with the Single Arm Spectrometer, teams of 30 or more physicists kept this large and complex facility going. With time, the system has become more reliable and for E-99 a team of 10 to 12 physicists, most of them new to the facility, were able to keep it running efficiently. Rapid analysis of the data during the run, using the CDC-6600 computers, was invaluable for determining that the system was functioning properly.

In addition to showing that the small signal could be extracted cleanly from background, this offline analysis even gave a good first glimpse of the physics. These offline results give answers in the region predicted by a theoretical extrapolation of the low energy data, and, now that the run is over, the experimenters will analyze the data in more detail to obtain the final results.

Personnel associated with E-99 are: Argonne National Laboratory - M. Arenton, D. Ayres, D. Cohen, R. Diebold, E. May, J. Sauer, A. B. Wicklund, P. Zeman; Fermilab - J. Elias; Stanford - S. Michalowski, K. Rich, D. Ritson.

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COMPUTER LECTURE RESCHEDULED

The Jan. 20 Science and Humanities lecture program has been rescheduled to Friday, Mar. 17, the Auditorium Committee has announced. Joseph Weisenbaum, professor of computer science at the Massachusetts Institute of Technology, will speak at 8:30 p.m. in the Fermilab Auditorium on "Can Computers Be Trusted?" Free tickets (required for admission) that were issued for the Jan. 20 program will not be honored on the Mar. 17 date. Ticket holders will be given preference for new tickets to be issued by the Guest Office, CL-1W, Ext. 3440. (until Mar. 4)



..Lina Kadyshevsky..

VISITOR PRESENTS PROGRAM

Dr. Lina Kadyshevsky, wife of Vladimir Kadyshevsky, a visiting theoretical physicist at Fermilab, will speak to members of the Wheaton Area Business and Professional Women at a monthly meeting on Tuesday, Feb. 7. She will discuss the common concerns of Soviet and American business and professional women. The program will include a question and answer session.

Mrs. Kadyshevsky, an associate professor at Moscow State University, is a geographer and she is the author of three books: "Burma: Resources and Landscapes," "Natural Resources of Eurasia," and "Man-Made Landscapes." She is particularly interested in environmental problems, the changing of landscapes by man, and land use problems.

Three other Soviet wives visiting at Fermilab have also been invited to the BPW meeting which will be held at the Cock and Bull, 27W371 North Avenue, West Chicago, at 6:30 p.m. Reservations, due Feb. 6, may be made with Mrs. Carl Hairgrove, 835 North Stoddard Avenue, Wheaton.

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NOBEL PRIZE WINNER GIVES COLLOQUIUM

Prof. John Bardeen (R), a double Nobel prize winner, spoke on "Quasi One Dimensional Conductors" at the Jan. 25 colloquium. His son, William (L) is a Fermilab theoretical physicist. The elder Bardeen, a professor at the University of Illinois, outlined the history and current status of solid state physics in his presentation.

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MATH TEACHERS TOUR LAB

Energy Doubler components were viewed by about 50 Palatine junior/senior high math teachers who visited Fermilab Jan. 23. The educators viewed the exhibit on the Central Laboratory's 15th floor and also saw the Cancer Therapy Facility and main control room.

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FERMILAB FIGHTS THE BLIZZARD OF '78

It was a storm to remember. And the blizzard of '78 that swept down on the mid-west last Thursday touched Fermilab and its employees/users/visitors. Here are some of those stories:

The Laboratory suspended operations at 1 p.m. Thursday to allow most dayshift workers to begin homeward drives before sunset and highway traffic congestion. Experimental areas, set to work as usual, were affected Thursday through Sunday after blowing snow shorted a Neutrino electrical substation.

The storm cut attendance at a Solar Design Seminar meeting on site Thursday. Of advanced registered 108 persons, only 44 made it to the meeting. The day-long session in the Central Laboratory wound up at 4 p.m., an hour ahead of schedule. Two conference participants, stranded by the blizzard, spent the night in a Fermilab Village dormitory.

They were among about 24 unexpected guests registered by the Housing Office in two dorms and Aspen East over the Thursday night emergency.

E-99 experimenters postponed an end-of-run party scheduled for Friday. The celebration was held Tuesday at the Village Barn.

A Users Center party, also set for Friday, was snowed out, too. The party, featuring "Progress" rock band will be held from 8 to 11 p.m. Friday (Feb. 3).

The Thursday night gourmet dinner at the Users Center was postponed. Reservations for Jan. 26 will be honored Feb. 2; reservations for Feb. 2 will be honored Feb. 9.

Fire department lifelines assisted persons navigating the Central Laboratory's north steps Thursday. Winds whipping across the steps were estimated at 50 m.p.h. Fire ropes were run from the CL front doors to step handrails to provide a handgrip for pedestrians.

Chief of Security Robert Armstrong commended his communications staff and site patrol members for yeoman service. Under Manager of Emergency Services Rudy Dorner, about half of the Thursday site patrol day shift volunteered to join the night crew on duty. The Laboratory operator and communications center, Armstrong said, handled up to 100 calls per hour for several hours. Four auto accidents, including a four-car pileup at Eola and Butterfield Roads, were investigated by the site patrol. No serious injuries were reported.

Plowing roads almost non-stop Wednesday through Friday were 14 groundskeepers driving 12 vehicles, including six each dump trucks and pickups. Bob Hall was in charge, filling in for Bob Kraft who was stranded at home in Melrose Park. The grounds crew started plowing about 9 p.m. Wednesday. The work continued through the night up to 6:30 p.m. Thursday. While two drivers continued plowing, others rested until 2 a.m. Friday when work was resumed with a full crew up to 4 p.m. Friday.

George Davidson of Vehicle Maintenance reported a busy Thursday-Friday for his two wreckers. He estimated the duo responded to about 60 calls for car starts or vehicles needing towing from ditches.

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FLASH!! As of Sat., Feb. 4, all telephone numbers to the Argonne National Laboratory have been changed. Call the Fermilab switchboard operator for correct information.



...Snow clogged Road B and other site roads on Thursday, Jan. 26...

NALREC'S 1978 CANDLELIGHT BOWL
Bowling Green Sports Center, West Chicago
Saturday, February 25 - 9 p.m. to 1 a.m.
\$7 per person

Buffet Dinner
Free Drinks
Door Prizes

Red Pin Bowl
Scotch Doubles
Comic Bowl

Tickets and information from: Jesse Guerra, Proton, CL-GF, Ext. 3533; Brenda Moylan, Administrative Division, CL-4S, Ext. 3648; Sherry Nila, Magnet Facility, Ext. 3555; Pat Yost, Guest Office, CL-1W, Ext. 3441; Don Sorenson, Proton, CL-11E, Ext. 3087; and Ed LaVallie, Proton, CL-11W, Ext. 3138. Tickets must be purchased by Feb. 20.

MEDICAL NOTE: SNOW SHOVELING CAN BE HAZARDOUS TO YOUR HEALTH

Dr. Charles Lang, Fermilab physician, reminds employees that snow shoveling is strenuous exercise ... and it can result in heart attack. The elderly or those with existing health problems should not shovel snow. If possible, hire someone to do the job. It is much better to spend a few dollars than be stricken with serious illness. Even if a person is in good general health, and has been getting regular exercise and feels that he can tackle the job himself, don't try to shovel the entire walk or driveway all at one time. Divide the area into small sections and clean one part, then rest before going on to the next section. Whenever the snow begins to feel especially heavy, take a rest break.

Additionally, keep these thoughts in mind: Wet snow is much heavier than dry snow; govern shoveling accordingly. Push or sweep away as much of the snow as possible. If an icy crust has formed on top of several inches of snow, shovel the snow in layers. Make use of small quantities of rock salt and ice-melting materials to make the job as easy as possible. Dress warmly while shoveling snow since cold itself can pose a strain on the circulation. Don't bundle yourself so that it's hard to move, however. Don't shovel snow right after eating and don't smoke right before, during, or right after shoveling snow. In case of chest pain, weakness, or other signs of physical distress, stop shoveling at once.

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COMING EVENTS

- Fri., Feb. 10 -- Dance Concert: "5 by 2 Plus Modern Dance Company." 8:30 p.m., Fermilab Auditorium. For tickets (\$3), information, contact the Guest Office, CL-1W, Ext. 3440.
- Sat., Feb. 11 -- Inter/National Film Society: "The End of August at the Hotel Ozone." CL-Auditorium, 8 p.m. Tickets: \$1.50 adults; 75¢ children.
- Sat., Feb. 18 -- NALWO Dinner Dance: "Something Special." Village Barn, 7 p.m. to Midnight. Champagne and Beef Wellington will be menu features. Dancing to "The Baker's Half Dozen Minus Two." Cash Bar. Tickets (\$7.50 per person) must be purchased by Feb. 14. Tickets, information available at Guest Office, CL-1W, Ext. 3440.
- Fri., Feb. 24 -- Pro-Basketball bus trip. Chicago Bulls vs. Milwaukee. 7:30 p.m. For information call Pam Cooper, Ext. 3222.
- Sat., Feb. 25 -- Candlelight bowl. Bowling Green Sports Center, W. Chicago, 9 p.m. to 1 a.m. Bowling, buffet, door prizes. \$7 per person. Deadline for reservations: Feb. 20. Contact: J. Guerra, Ext. 3533, B. Moylan, Ext. 3648; S. Nila, Ext. 3555; D. Sorenson, Ext. 3087; P. Yost, Ext. 3441; E. LaVallie, Ext. 3138.

CLASSIFIED ADS - For distribution with THE VILLAGE CRIER of February 2, 1978

FOR SALE: Two lots in Port St. Lucie, Florida (located about 110 miles north of Miami; 30 miles north of West Palm Beach). Each lot is approximately 80' x 125'. Asking \$5,795 each; terms will be considered. Call Marilyn, Ext. 3211 or 393-1867.

HOUSE SITTER WANTED: For 3 weeks, starting Feb. 12. Cleaning lady and use of car included. Call Guest Office, Ext. 3440.

FOR SALE: Three-month old wheelchair and hospital equipment; also three coats and miscellaneous clothes, size 18½ and 20. Call June, Ext. 3293.

WANTED: Male roommate. Share 4 bdrm. house in Woodridge, one mile from Four Lakes. Private bdrm. and bath. Non-smokers only. \$175/mo. & share of utilities. Call 332-7144 days; 620-8251 evenings.

FOR SALE: Starter solenoid switch. Borg Warner S-63. Bought for a Ford - never used, \$5. Call Pat at Ext. 4107.

FOR SALE: 1973 Capri 2000, 4 cyl. w. man. 4 speed. Runs well, has new battery & exhaust. Great gas mileage. Asking \$1,500 or best offer. Call Ron Cudzewicz at Ext. 4068 or 365-6890 evenings.

FOR RENT: Aurora, Ivy Glen, 3 bdrm. condo, refrig, stove, dishwasher, disposal, garage, air, carpet. \$310/month, occup. Feb. 6. Call 557-2523, or Ext. 3677.

FOR SALE: 1969 VW, automatic/stick shift, engine reworked, new brakes, radial tires, needs some body work - make offer. Call Paul Czarapata, Ext. 3157 or 852-5482.

FOR SALE: 1971 Plymouth Fury Grand Coupe, good condition, AC/PS/PB, snow tires, \$800. Call 969-0948 or Ext. 3950.

FOR SALE: 1969 Olds 98 2-dr HT, PS/B/W, AM/FM radio, body rusty, engine, tires good. \$300. N. Engler, Ext. 3054.

MUSIC: A new club is forming for people with an interest in folk and traditional music. Anyone interested in playing, singing, or just listening, call Dave Hanssen at Ext. 3688.

F E R M I L A B
SOCIAL ACTIVITIES
February, 1978

Friday, Feb. 10 - Fermilab Art Series presents "5 by 2 Plus Dance Company" in the CL-Auditorium at 8:30 p.m. Admission is \$3.00; tickets available at Guest Office, CL-1W.

Saturday, Feb. 11 - Int'l Film Society presents "The End of August at the Hotel Ozone" in the CL-Auditorium at 8:00 p.m. Admission is \$1.50 for adults, \$.75 for children.

Saturday, Feb. 18 - NALWO presents "Something Special" champagne dinner dance at the Village Barn, 7:00 to 12:00 p.m. Live music. \$7.50 per person; tickets available at Guest Office, CL-1W.

Friday, Feb. 24 - NALREC sponsored basketball trip; Chicago Bulls vs. Milwaukee Bucks. Tickets, \$9.00 per person; bus leaves Cen. Lab at 6:00 p.m. Contact Pam on 3222.

Saturday, Feb. 25 - NALREC sponsored Candlelight Bowl at Bowling Green Sports Center, 9 p.m. to 1 a.m. \$7.00 per person includes Buffet, free drinks and door prizes. For information contact Brenda Moylan, 3648; Pat Yost, 3441.