

FERMILAB NEWS

 Fermi National Accelerator Laboratory

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THREE NEW COMPUTERS COMING

Al Brenner, Head of Fermilab's Computing Department, has announced that on July 5 an order was placed with Control Data Corporation to provide a new computing facility at Fermilab.

CDC will deliver to Fermilab three CYBER 175 computers to replace the two CDC 6600 and one CDC 6400 computers currently installed. The three Central Processing Units (CPUs) will be loosely coupled in a fashion somewhat similar to the scheme currently in use for the existing older equipment. "The total computing power of the new equipment when fully installed will be about nine times the power of a single 6600 CPU," Brenner said.

According to the Department Head, the installation of this equipment will start in October. To the largest extent possible, the user community should not be seriously affected as new pieces of equipment are brought in and are introduced into the system, Brenner said. By the end of the year, two CPUs and additional disk storage and magnetic tape units should be integrated into the system and bring computational capability up to a level which should be comfortable and which will allow Fermilab to maintain the current style of operation with more than enough CPU cycles for a very responsive operation.

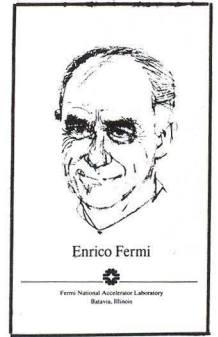
By April of 1979 most of the rest of the equipment will be delivered, including the third CPU.

By mid 1979, the style of operation of the facility will slowly be modified by adding enhancements to the existing operational features. This will include the ability to interactively access files on the main system. All files will be available through all channels, either direct input, RJE, or interactively. Thus, users at that time will be able to modify batch control files and program files, and initiate the execution jobs from consoles.

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FERMI: NO. 76 IN HISTORY'S TOP 100

...Fermilab booklet honors
namesake
Enrico Fermi



Atom pioneer Enrico Fermi, Fermilab's namesake, was the 76th most influential person in world history.

That's the opinion of scientist-author Michael H. Hart. He has written "The 100. A Ranking of the Most Influential Persons in History." The book was reviewed recently in the Wall Street Journal by Michael Gartner.

According to Hart, Mohammed and Isaac Newton were the most influential people in history. Some 98 men and two women are listed. Fermi is among 15 men mentioned who lived in the 20th century; scientists and inventors account for 37 spots on the list.

Besides Fermi and Newton, other physicists ranked are: Albert Einstein (10); Wilhelm Roentgen (73); John Dalton (92); Johannes Kepler (97); and Niels Bohr (100).

More information about Fermi is available in a new pamphlet produced by the Fermilab Public Information Office. The free publication, the latest in a library of Laboratory-produced literature on physics topics, chronicles Fermi's life and accomplishments in physics.

The booklet includes photos of Fermi, the Fermilab Central Laboratory and an aerial photo showing the Main Ring and experimental lines. Limited quantities of the publication are available from Public Information at CL-1W/Ext. 3351.

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FUN WITH RADAR SPEED GUN

Site patrol members turned their radar speed gun on 276 Fermilab people July 23.

For a change it was all in fun. The gun--usually clocking speeding motorists--was demonstrated at the 1978 NALREC all-Laboratory picnic. With a patrol car, radio equipment and closed circuit television units on display, the speed gun measured how fast picnic-goers could throw a baseball or softball at a backstop.



...Capt. Dan Diederich...

The first-time event at the picnic was free. Bob Armstrong, Site Patrol Chief, said his group sponsored the activity to enable employees to informally meet some of his staff--without receiving a citation. Instead of a ticket, each pitcher received a certificate stating the miles-per-hour pitched. Captains Dan Diederich, Tom Friedrichs and Buzz Jeffries operated the gun and summer employee Jackie Higgins recorded them.

According to Armstrong, fastest time recorded on the day was 72 m.p.h. by an unidentified man; a boy led all children participating with a 57 m.p.h. throw.

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ON THE PHYSICS NEWSBEAT

Seeking high energy physics news items, physicist-journalist Brian Southworth (at right in photo) visited Fermilab recently. He is editor of the CERN Courier, journal of high energy physics of the European Organization for Nuclear Research (CERN) at Geneva, Switzerland.

Discussing new experiments with Southworth were (L-R): Taiji Yamanouchi, Program Planning Office; J.M. Gaillard, CERN; and Barry Barish of E-356 in the Neutrino Area.

STUDENT LOAN APPLICATIONS DUE AUGUST 15

Argonne Credit Union is filling a financial need other lenders are increasingly omitting: college education loans.

Tuesday, August 15, is the deadline to apply for student loans for the fall term, says John Chonko, ACU manager. About 30 days are required to process applications, he said. Undergraduate and graduate work may be financed through ACU loans.

Up to five years to repay is allowed after the student leaves school. Undergraduates (freshmen are not eligible) can borrow up to \$1,500 annually; graduate students can borrow up to \$2,500 per year. If annual family income is less than \$25,000 interest is paid by the federal government while the student is enrolled.

Currently, Chonko said, 30 Fermilab sons and daughters are among 300 students that have borrowed \$685,000 from the ACU to finance higher educations. "We see these loans," Chonko said, "as worthwhile investments in the future of young people and the country." He added that no collateral is requested or required.

For an application or more information contact the ACU service office at CL-1W/Ext. 3293.

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'78 TENNIS TOURNAMENT UNDERWAY

Fermilab's 1978 tennis tournament got underway last week with a field of 39 players signed up. Seven top players were seeded. They are: (1) R. Krull (Physics); (2) J. Walker (Colliding Beams); (3) M. Abolins (E-585); (4) M. Storm (Accel. Controls); (5) M. May (Accel. Mech.); (6) G. Quist (Proton); and (7) B. Peters (Energy Doubler).

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FERMI CREDIT UNION OFFICE EXPANDS STAFF

Argonne Credit Union has appointed its first fulltime staff member in the Fermilab service office.

She is Cindy Gould, formerly a secretary in the Fermilab Contracts Department. Mrs. Gould's appointment was effective Aug. 1, said John Chonko, ACU treasurer-manager. As a branch operations assistant, Mrs. Gould will handle all shares and loan transactions for Laboratory ACU members said Chonko.



...Cindy Gould...

He added, "Cindy has a background in banking customer service. Her addition to the credit union staff will provide for an expansion and improvement of services offered by your credit union." June Olsen and Beverly Miller will stay on as part-time employees, Chonko noted.

Prior to joining Fermilab in 1976, Mrs. Gould was employed by banks in Elmhurst and Aurora. Her husband, Larry, teaches school in Villa Park. The couple reside in Aurora.

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BARN DANCE AUGUST 19

A barn dance for Fermilab employees and families will be held Saturday, Aug. 19, from 7:30 p.m. to midnight. The hoedown will be held in the Village barn.

Children are welcome. Do-si-do to the music of the Chicago Barn Dance Company. Fred Feiled will be the caller. Refreshments will be available. For more information, contact Betty Kastner at Ext. 3841 or David Hanssen at Ext. 3960. Admission will be \$1.50 per person.

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FERMILAB MAN FLIES ON WINGED FEET



...J. Gallagher keeping pace at Fermilab...

Jim Gallagher, a Meson experimenter on Exp. 439, is a man on the run. Even on holidays. For instance, he won the 1978 Aurorafest distance race of 2.6 miles on July 4, finishing first in a field of about 300 runners. His time was 12:55.

The trophy was Gallagher's third this year. In February, he won a 10-kilometer race at North Central College with a time of 31:30. The same month he followed up with a first place finish in a five-mile run sponsored by the Aurora YMCA. His time of 26:15 was the best in a field of 150.

Gallagher, 28, is a native of Osterville, Mass. He trains by running a minimum of eight miles daily with the North Central College cross country team at Naperville. He plans to add a morning workout when fall arrives.

Gallagher won All-New England honors in 1976 as a member of the Northeastern University (Boston) two-mile relay team. He won a letter each in cross country and the steeplechase.

In an unofficial survey by a runners' publication, Gallagher was listed in the top 100 U.S. marathoners. In his premiere, he finished 19th with a time of 2:29:00 in the 1978 Marine Marathon at Washington, D.C. In the 1978 Boston Marathon he placed 55th with a time of 2:23:00.

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NALWO HEARS GENEVA MAYOR

William B. Wood, mayor of Geneva, reviewed area pioneer history at a NALWO coffee last week. He is shown in the photo below with his wife Nell and Cindy Albright of NALWO.

The mayor mentioned that the area dated to Virginia territory claimed in the 1500's. He said settlers came to southern Illinois via the river system and that Chicago's roots were formed in 1803 when the U.S. government established Ft. Dearborn as a trading center.

Illinois gained statehood in 1818, Mayor Wood said, and 15 years later the first claim was staked out at what was to become Geneva. Elias Kent Kane, according to the mayor, was the first U.S. Secretary of State and the namesake of Kane County. Limestone from Geneva area quarries was used to build Chicago's water tower, Wood said. He added that gravel from the area is found in Fermilab roads.

Wood saluted early Geneva women for their humanitarian efforts, noting that they took over the Geneva Improvement Association in 1894. Wood credited women for establishing a civic library and for improving schools, and public facilities. In a question session after his talk, he outlined Geneva's form of government, sights to see and plans for the future.



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INFORMATION LINE

Illinois' Department of Conservation has set up an "Information Line" for outdoor sports buffs. By dialing 793-2589, Chicago area residents can get latest information on a variety of outdoor activities.

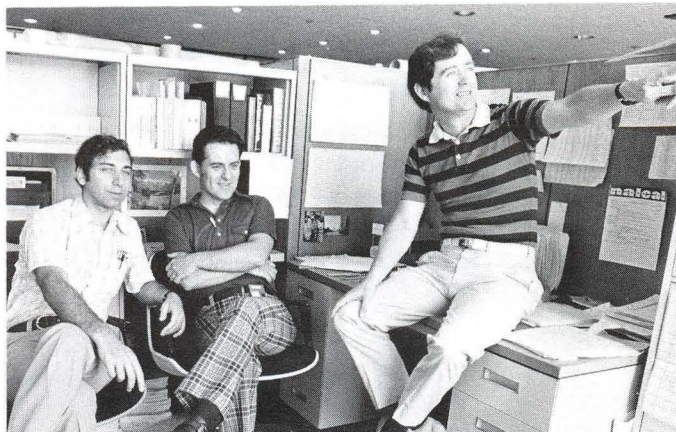
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NEW ARRIVAL



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ASTROPHYSICIST VISITS FERMILAB



Astronomer-author Jay M. Pasachoff (L) visited Fermilab last week. He is shown with Chuck Brown (center), Physics department head and Chris Quigg, Theory department head. Dr. Pasachoff is associated with Hopkins Observatory at Williams College, Williamstown, Mass. He stopped at Fermilab while on a tour to research an assignment for National Geographic Magazine.

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WOMEN SCIENTISTS ORGANIZE

A meeting will be held Wednesday, Aug. 9, to form a Chicago area chapter of Association for Women in Science (AWIS). The session will be held at the Cypress Restaurant, 500 E. Ogden Ave., Hinsdale. After a 6 p.m. social hour, dinner will be served at 7 o'clock and a business meeting will be held at 8 p.m.

The AWIS was founded in Chicago in 1971 by 40 biomedical scientists. The organization affirms the ability of women to function as professional scientists at a level of competence equal to that of men.

For reservations or more information, phone 325-2804 or mail \$7.50 per reservation to Janice Wenger, 101 Eastern Ave., Clarendon Hills, Ill., 60514.

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