

The Village Trier



fermi national accelerator laboratory

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...LEFT PHOTO: Plant support crew (L-R): R. Vanecek, J. Morphey, G. Elias, P. Lentini, P. Linden, J.J. Sthl, D. Walker. RIGHT: Tanker loads overflow from sanitary treatment plant...

SPRING BRINGS SEWER CRISIS

Ah, spring! Everyone is glad that it's finally here . . . except maybe Bill Riches and his Plant Support crew. For the last four weeks, they have been battling rising waters that threatened to overload Fermilab's sanitary sewer system.

"The crisis is just about over," Riches said last week, hoping for no more rain. Paul Linden, sanitary treatment plant operator, reported dangerously rising waters on March 13. Riches tells it this way:

"Drainage ditches were full of snow and ice--preventing normal storm water runoff. With no place else to go, this water flowed into the top of sanitary system manholes. Due to high hydrostatic pressure, underground water flowed through the joints of the manholes . . . causing an overloading of the collection system and of the sanitary treatment plant."

"With an influx into the plant of as much as 100,000 gallons developing daily, the plant was in danger of being flooded out," Riches said.

John McCook of the Administrative Division negotiated with the Research Division for help in the form of an 8,000-gallon tank truck formerly used to store low conductivity water for disposal. The tanker was converted for sewage hauling.

For five days, three to four trips daily were run from the plant to the oxidation pond in the Village. The village plant, using bacteria and chlorine, handled the overflow without problem, Riches said.

Meanwhile, Ken Sceper, Bob Vanecek, Erich Laukant and Jack Morphey were busy monitoring four lift stations in the collection system. They also personally inspected manholes to spot water leaks. A speciality firm was hired to scan underground piping using remote TV cameras. Inspectors found 25 of 55 manholes were allowing water infiltration.

Chemical grout was employed to seal the leaks. The process involved drilling holes from inside the manholes; then grout was pumped into the wet ground outside the manhole wall; the compound formed a gel in 25 seconds, sealing the hole from the outside.

Riches noted, however, a related concern: at many locations throughout the Laboratory, cooling water from scientific equipment has been discharged into the sanitary system. "This adds to the problem of natural overloading of the treatment plant," Riches said.

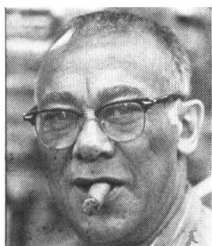
(Continued on Page 2)

SEWER CRISIS (Continued)

"Even as little as five gallons per minute of cooling water flow amounts to more than 7,000 gallons daily to be treated. Under no conditions should scientific or experimental personnel discharge cooling water into drains," Riches said, "unless they are assured that the drains are for storm water. This is a serious problem and all Laboratory personnel are requested to cooperate," he said.

Riches may be contacted on Ext. 3779 for more information or to certify that a drain is acceptable for cooling water discharge.

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S. Alexander



J. Rest

REST, ALEXANDER RETIRE

Samuel Alexander (Machine Shop) and Jerome Rest (Technical Services) retired Mar. 31.

Alexander, an instrument maker, joined Fermilab in January, 1969, as an instrument machinist. Previous experience had been as a machinist for two Franklin Park firms. A U.S. Army veteran of World War II, Alexander resides in Batavia with his wife, Emma.

Rest, an Evanston resident, was head of Engineering Services drafting group at his retirement. He had been a Fermilab employee since 1971. Rest had held engineering positions at several area companies since receiving his bachelor's degree in mechanical engineering from the University of Illinois in 1939. Rest's family includes his wife, Thelma.

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'MONTE CARLO NIGHT' APRIL 15

NALREC's 1978 "Monte Carlo Night" is coming Saturday, April 15. Users Center doors open at 8 p.m. -- gambling starts immediately! \$1 admission buys \$5,000 in play money. Gamble the night away and win enough to buy a prize at a midnight auction. Cash bar, Italian beef sandwiches will also be available. Volunteers are being sought to help run the gambling tables. Contact Barb Schluchter, Ext. 3199.

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HAWK FREED AT FERMILAB

A Rough-legged Hawk! was released at Fermilab after recovering from a gunshot wound. A female, the bird was released by naturalists of the Red Oak Nature Center, N. Aurora. Wounded by a hunter, the hawk was found by a falconer who took it to a Naperville veterinarian. The vet pinned a broken wing and the hawk spent several months recuperating at the nature center. Dave Heffernan, center director, and Jim Jennings, an aide, released the hawk.



OPERATIONS CENTER DEACTIVATED

Fermilab's Operations Center--intermediary between experimental areas and the accelerator main control room for six years--was partially deactivated at 8 a.m. Monday, April 3.

Art Greene, Assistant Director for Program Planning, said Operations services and personnel were reduced for economy reasons, although it is hoped this can be done with improvements in efficiency at the Laboratory.

"While Laboratory personnel are working very hard to make a new arrangement of responsibilities succeed, this is considered a test with a review of a need for reactivation of the Center expected later in the year," Greene said.

The reorganization will affect operating personnel Laboratory-wide. Under the new setup, Crew Chiefs in respective experimental areas (Meson, Proton, Neutrino) are assuming liaison responsibilities for communicating with the main control room. To aid in resolving conflicts, two Duty Physicists are on call for four-week periods. Currently they are Gene Fisk and Tom Nash.

The Communications Center is also involved. The Center provides important round-the-clock contact with Duty Physicists through the page system and with personnel in the experimental areas, should, for example, a Crew Chief or assistant be out of telephone contact.

Plans are to continue providing detailed information formerly prepared by Operations Center staffers. Media include video screen messages, strip charts, schedule information, and a daily written report about the status of the experimental program. Typically the Center has kept records of the use of the accelerator and experimental facilities including the running time of experiments.

The old Center ran 24-hours-a-day, seven-days-a-week. New hours are 8 a.m. to 5 p.m. weekdays with two Experiment Coordinators on duty. They are Dave Burkhart and Ken Shafer. Dee Ray provides secretarial support.

James MacLachlan, Operations head since 1977, has assumed new duties in the Accelerator Division. Four former Operations Coordinators have transferred to other groups. They are: Don Blatchley, to Magnet Measurements; Ed Stout, Meson; and Dave Hanssen and Mark Hibbard, Tevatron Instrumentation Group.

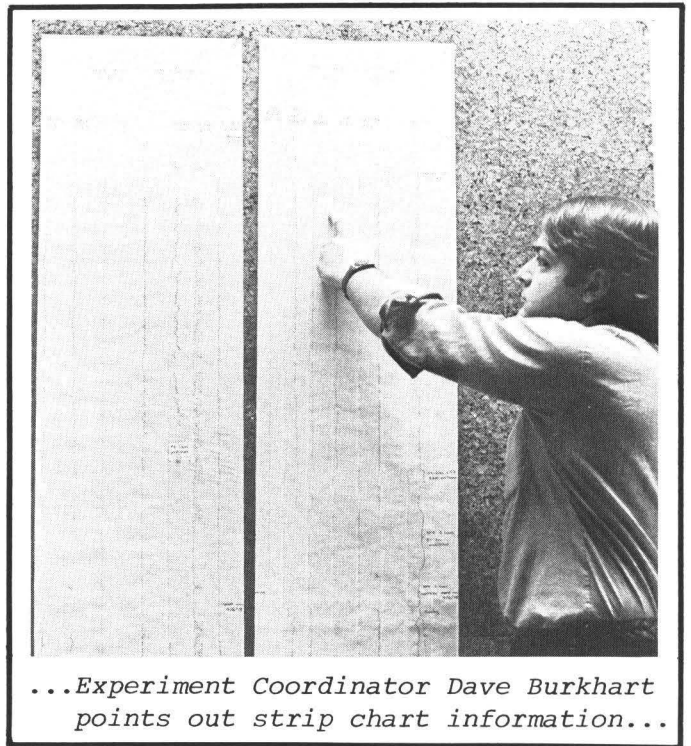
The Center's change in status was marked at an "end-of-run" party Friday at the Village Barn.

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COLE, MRS. BARDEEN ELECTED

Two of four Fermilab people won seats in area school trustee elections last week. Frank Cole, physicist in the Accelerator Division, was elected to the College of DuPage board of trustees. Marjorie Bardeen, wife of Bill Bardeen, Theoretical Physics, won a seat on the board of Glen Ellyn District 87. Unsuccessful candidates were Hendrik J. VanLeesten, Accelerator mechanics, and Patricia MacLachlan, wife of James MacLachlan, Accelerator operations. VanLeesten ran in Batavia District 101; MacLachlan was a candidate in Geneva District 304.

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...Experiment Coordinator Dave Burkhart points out strip chart information...

Fermilab Inter/National Film Society

Presents

"BIENVENIDO, MR. MARSHALL"

8:00 p.m.

Friday, April 14

Fermilab Auditorium

This 1952 Spanish production is an amusing satire written by Juan Bardem and directed by Luis Berlanga. Berlanga is considered a master satirist; Bardem has been recognized for his ability to vividly describe the realities of his country. The film contrasts the poverty of a Castillian town with a Fiesta organized to attract aid from Marshall Plan representatives. In a beautiful satire, the visitors' caravan passes through the village without stopping. Rated G; Spanish dialogue with English subtitles.

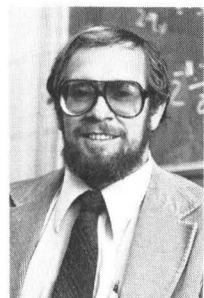
Admission: Adults, \$1.50; Children, 50¢



RESEARCH DIRECTORS MEET HERE

About 40 members of the Research Directors Association of Chicago were guests of Fermilab April 3. Above right, Rich Orr (Accelerator) is shown briefing the visitors at opening orientation. A walking tour was conducted by physicists Jeff Appel, Stan Ecklund and Roy Rubinstein, before dinner in the cafeteria. Laboratory programs and plans were outlined in an evening program in the auditorium by John McCook, Associate Director for Administration and John Peoples, Research Division head.

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WILL THE UNIVERSE EXPAND FOREVER?

Find out from David N. Schramm, theoretical astrophysicist at the University of Chicago. Dr. Schramm will speak on the topic Friday, April 14, at 8:30 p.m., in the Wheaton College science lecture hall, Kenilworth and Irving. The free public talk will be sponsored by the Amoco Research Center Sigma Xi club. Host institutions are Amoco, Fermilab and Wheaton College. Sigma Xi's purpose is "to encourage original investigation in science--pure and applied." Dr. Schramm is acting chairman, Department of Astronomy and Astrophysics, University of Chicago.

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GARDEN CLUB SETS MAY 3 DEADLINE

Attention all Fermilab gardeners: to be guaranteed a garden plot this season, a request form must be forwarded to the Garden Club by Wednesday, May 3. Forms are available from Helen Ecker, Recreation Manager, CL-1W. Also, rototillers are available for rental from Village Services. Call George Doyle, Ext. 3421, to reserve a tiller or for information.

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ANNOUNCING . . . Annual Fermilab Arbor Day observance Friday, April 28. Watch for details!