

FERMINEWS

 Fermi National Accelerator Laboratory

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PERSONAL TOUCH FOR COMMENCEMENT

More than 200 students, their parents, relatives and friends participated in the final session of Fermilab's first Saturday morning physics program Dec. 13.

The high school students were finishing the 10-week course and were gathered in the second floor lounge area with their guests to exchange farewells and to each receive personally from Leon Lederman, Fermilab director, a certificate of accomplishment.

In a brief "commencement address" Lederman told the young men and women that "teaching this course (by members of Fermilab's scientific staff) has been an enormous amount of fun, and I certainly hope it was fun for you too." The director said he knew they would not recall everything, but he wanted them to come away with a "feeling for what we are doing, an excitement for what is being done at the frontier of high energy physics."

He went on to say that "getting young people into science and keeping them in science is fundamental. If we are to maintain our quality of life and, indeed, ensure our survival, then good science and good technology is essential. It is through this consistent flow of young talent that we can solve our burdens by clever and ingenious breakthroughs."

Lederman also said, "We (at Fermilab) indulge in what we love to do. We are obligated to do as much for our community as it has done for us. Look upon us as a resource for yourselves and the community. We want to do more for you. Keep in touch. We are always available. It's important for you to keep up with the advances in science and to know what is happening in the world."

The final lecture in the series was given by Frank Cole, who spoke about the spinoffs and applications that came from high energy physics.

While the young men and women were

BEAM THROUGH LEFT BENDS

At 2:39 a.m. on Dec. 12, after working around the clock as that historic moment neared, beam was successfully transported through the superconducting left bends in the Switchyard to the F1 manhole.

Then during the weekend the Switchyard took the beam to the Meson Hall. As FERMINEWS goes to press, work was continuing toward hitting the target in the Meson Hall. The full story of the left bends accomplishment will appear in a later issue of FERMINEWS.

The final phase of the work on converting the meson left bends from a beam line with conventional magnets to one with superconducting magnets began on June 23, 1980. When the project is completed, it will represent the initial step of creating a Switchyard capable of handling beams with energies as high as 1 TeV (1,000 GeV).

Briefly, the left bends to the Meson area consisted originally of five Lambertson magnets and 56 external proton beam dipoles. The new configuration will contain the same five Lambertson magnets but will now have 21 Energy Saver superconducting dipole magnets. The quadrupoles, trim magnets and vertical bending magnets will remain conventional.

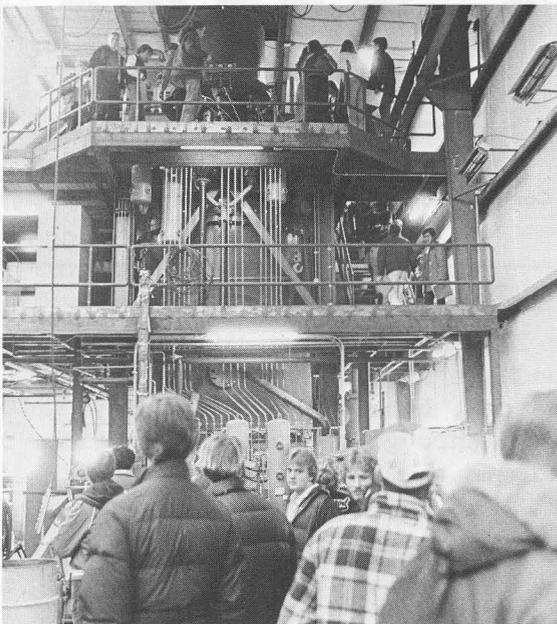
attending the lecture, their parents were conducted on a tour of the atrium, Wilson Hall and the Cross Gallery.

Then they joined their sons and daughters in the second floor lounge area, WH2-S, for the commencement and refreshments.

A number of science teachers who attended the classes also received certificates.

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SCENES FROM SATURDAY MORNING PHYSICS COMMENCEMENT



*Students visit Central Helium
Liquifier Facility.*



*Frank Cole (far left) leads
students through magnet facility.*



Leon Lederman hands out certificates.



Joe Lach (far left) leads parents on tour.



The first Saturday Morning Physics class.



As Christmas approaches, a number of familiar scenes emerge to show enthusiasm and anticipation so characteristic of the season. In the top photograph, a youngster at the children's Christmas party shares her secrets and wishes with Santa. In the other photographs, youngsters at the Children's Center prepare for their Christmas program.

STILL LOOKING FOR THAT PERFECT GIFT?

With time running out on Christmas, and you probably running out of ideas for the perfect gift to give, wait, there's one place you may not have thought to look.

That's the Public Information Office, with books, pamphlets and novelties. Here's a list of what's available at the reception desk in the atrium:

Books--"Aesthetics and Science" (\$20); "Contemporary Astronomy" (\$18.95); "The Key to the Universe" (\$7.95); "The First Three Minutes" (\$2.95); "What is the World Made Of?" (\$3.95), and "The Collapsing Universe" (\$2.50).

Among the many other items are Fermilab T-shirts (navy and light blue) \$4 and \$4.50, depending on size; Fermilab tote bags (\$7 for blue, \$6 for beige); posters (\$2); color slides (\$1 each or five for \$4.50), and photographs (8" by 10" in size at \$4.00 for color, \$1.35 for black and white).

Tickets to all performances at Fermilab may be purchased from Marilyn Smith at the reception desk in the Atrium, Ext. 3353.

Also available from Helen McCulloch, recreation coordinator, are "Entertainment '81" discount coupon books. For \$20, the book includes several hundred 2-for-1 coupons for restaurants, special events and sporting events.

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EMPLOYEES HELP WITH TOURS

Helping the Public Information Office with tours and special visits in November were Chuck Ankenbrandt, Jeff Appel, Dave Bintinger, Chuck Brown, Dick Carrigan, Paul Czarapata, Tom Groves, Drasko Jovanovic, Jack Lockwood, Thornton Murphy, John O'Meara, Randy Ten Haken and Jim Walker. Ralph Kramp presented a program for the DuPage County Firefighters Association on Dec. 1.

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FERMINES AFFECTED BY HOLIDAYS

Because of the upcoming holidays, FERMINES will not be published again until Friday, Jan. 2. FERMINES takes this opportunity to wish its readers an enjoyable holiday season. * * * * *

CHICAGO SYMPHONY STRING QUARTET
TO GIVE CONCERT AT FERMILAB

by Ruth Ganchiff
Cultural Editor

From the Chicago Symphony Orchestra-- indisputably one of the finest in the world--come seven players who will perform Jan. 17 at Fermilab.

They are the Chicago Symphony String Quartet plus two horns and a piano. The concert will begin at 8 p.m. in Wilson Hall auditorium. Tickets are \$5 each for reserved seats and may be obtained from the ticket sales desk in the atrium, Ext. 3353. The Fermilab Auditorium Committee encourages everyone to arrive on time, since the programs always begin promptly. Latecomers will be seated only between movements.

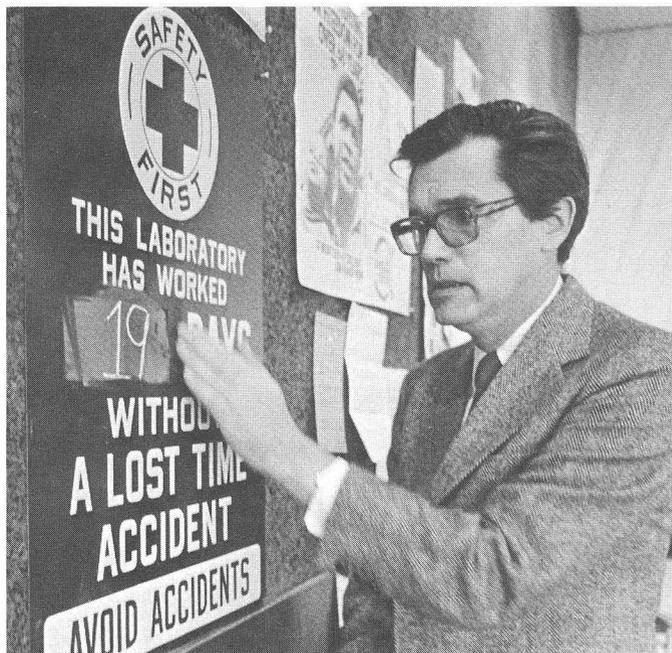
Players of extraordinary talent and training, they are Victor Aitay, co-concertmaster of the orchestra, playing first violin; Edgar Muenzer, a first violinist with the orchestra, playing second violin; Milton Preves, principal viola; Frank Miller, principal violoncello; Dale Clevenger, principal French horn; Norman Schweikert, French horn; and Mary Sauers, piano.

The quartet was founded 15 years ago and since that time has earned a reputation as "one of the most impressive chamber ensembles before the public today," according to one reviewer. Another critic said, "The distinguishing feature of their style is its extreme vitality and its full rounded sonority."

In addition to giving concerts, the quartet also has appeared on CBS television. They are frequently heard on WFMT, a Chicago FM station that specializes in classical music. Their appearance at Fermilab offers a rare opportunity to hear the music of these fine musicians playing the works of Beethoven, Haydn and Dvorak in a comfortable and acoustically precise surrounding.

This concert is another in Fermilab's performing arts series that attempts to bring a broad spectrum of culture to the Laboratory as well as the many surrounding communities.

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Lincoln Read, head of the Safety Section, changes the number of days to reflect the current status of the Laboratory's lost-time accident record. The new safety sign is in Wilson Hall cafeteria on the west bulletin board. It was posted to alert Fermilab people about the safety record at the Laboratory.

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HOLIDAYS CURTAIL FOOD SERVICE

Food service in Wilson Hall cafeteria will be curtailed during the Christmas and New Year holidays.

The cafeteria will serve breakfast only on Dec. 24 and Dec. 31 and will be closed all day Dec. 25 and Jan. 1. Normal service will resume between the two holidays and on Jan. 2.

The cafeteria will serve a special Christmas menu on Dec. 23. The menu will be posted throughout the site.

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CHORUS TO PERFORM AT FERMILAB

The West Chicago High School Chorus will sing at Fermilab Dec. 23.

Their concert will be from 11:30 a.m. to 1 p.m. in Wilson Hall atrium. Two choirs will perform. They are the regular choir singing selections for the Christmas season and the swing choir.

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