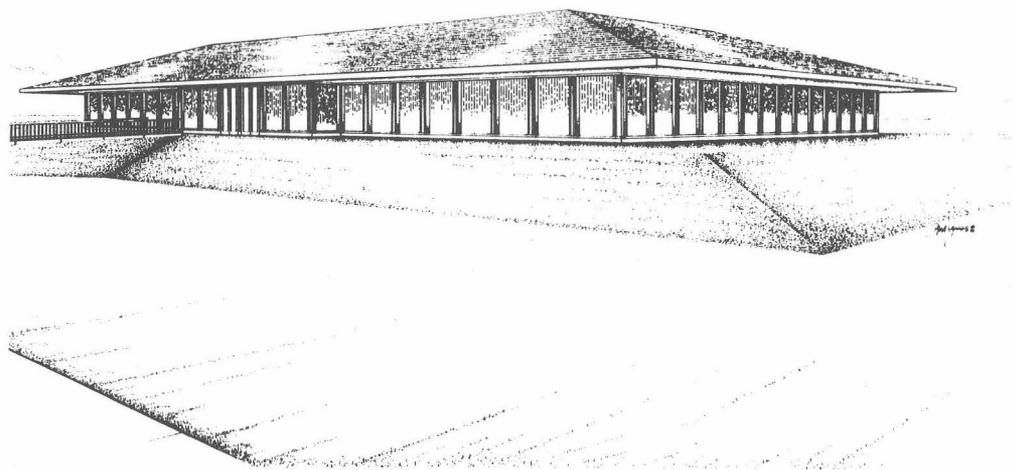


Fermilab to Break New Ground in Education

Fermilab's long-standing commitment to education will take a great stride forward on October 7, 1989, when ground is broken for a Science Education Center, located on inbound Pine Street, which will serve the education community, students and teachers alike. Building upon the strong foundation laid by the Laboratory's successful science education programs sponsored primarily by the Friends of Fermilab, the Center will offer a wide range of programs for students from kindergarten through high school. The Center is the fruition of years of effort on the part of Stanka Jovanovic, Fermilab's Education Office Manager, and Marge Bardeen, Fermilab's Education Office Program Manager.

Keynote speaker at the ground breaking ceremony will be U. S. Department of Energy Secretary James D. Watkins. Also speaking at the ground breaking will be Congressman Dennis Hastert (R.-Ill.). Prior to the ground breaking, Fermilab Director John Peoples, Jr., will moderate a symposium on "Science Education for the Entire Nation" at 10:00 a.m. in Ramsey



Auditorium. Speaking at the symposium will be Leon M. Lederman, Fermilab Director Emeritus and Professor, University of Chicago; William E. West, President Elect, Illinois Science Teachers Association; Lourdes Monteagudo, Deputy Mayor for Education, City of Chicago; Howard S. Goldberg, Professor, University of Illinois at Chicago; Roosevelt D. Burnett, Principal, Chicago Vocational High School; and Admiral Watkins.

The Center, a collaborative effort between the Laboratory and the

education community, is a Fermilab project supported by the Department of Energy's (DOE) Office of Energy Research.

The building (shown in the conceptual drawing above) is reminiscent of Frank Lloyd Wright's Prairie School of architecture. That aesthetic was foremost in Fermilab Director Emeritus Robert R. Wilson's design philosophy for the building's exterior. Wilson envisioned a low building, capped by a roof with a pronounced overhang, and set upon **cont'd on page 2**

Fermilab's Library Ready to Automate

Final agreement has been reached between Fermilab and Data Research Associates, Inc., (DRA) of St. Louis, Missouri, to provide an automation system for the Fermilab Library. When installation is completed (expected to be spring 1990), Library users will have greatly improved access to library resources.

Through terminals in the Library and over DECnet connections, users will have expanded access to

the "card catalog" and will have the ability to request, reserve, and check out items electronically. The system will provide users with up-to-date status of Library holdings through its automation of the day-to-day tasks performed by the Library staff.

The automation system is the result of a two-year project by the Fermilab Library Committee and the Library staff with the support of the

Director's Office and Chuck Marofske, Head of Laboratory Services. The Library Committee, chaired by Hank Thacker and consisting of Dave Carey, John Grimson, Leo Michelotti, Tim Miller, Tom Nash, Stephen Parke, and David Ritchie, selected the DRA product after an extensive review by Automation Subcommittee members Paula Garrett and David Ritchie.

“Education” cont’d from pg. 1

a plinth, or berm, to emphasize the structure. In the architect’s drawings and models, the building seems to float above the ground while, at the same time, appearing to be firmly placed in its surroundings.

Wilson’s concept was brought to the design stage by Fermilab’s Construction Engineering Services group. The plans call for an 84 ft by 132 ft one-story structure with a partial basement. On one side of the building (see below) are offices, a teacher resource area, a conference room, a work room, and a store where science education-related learning tools will be sold. The other side of the building is divided into four classrooms. The walls dividing the classrooms are movable partitions, allowing for conversion of the space into larger rooms or into one meeting room that can accommodate groups of up to 200 people.

The two interior halves of the building are, in effect, islands surrounded by open space to be used for hands-on exhibits.

The building’s roof will feature a concavity lined with windows. Daylight will pour through the windows, creating natural indirect lighting for the Center’s interior.

Ed Crumpley, Jr., one of the Construction Engineering Services staff who worked on the design of the Center, found the project “exciting for an architect. For one thing, this is a finished space, something we don’t usually get a chance to work on here at Fermilab, where

much of our work involves empty buildings and experimental halls that will be filled with experimental apparatus.

“The enthusiasm that Marge Bardeen and Stanka Jovanovic brought to this project was truly infectious. They looked at many similar buildings during their travels, and came into the project with so many fine ideas for utilizing the space.”

The Center’s design will undergo some fine tuning just prior to the construction start. Construction Engineering Services will be refining the plan, seeking out additional

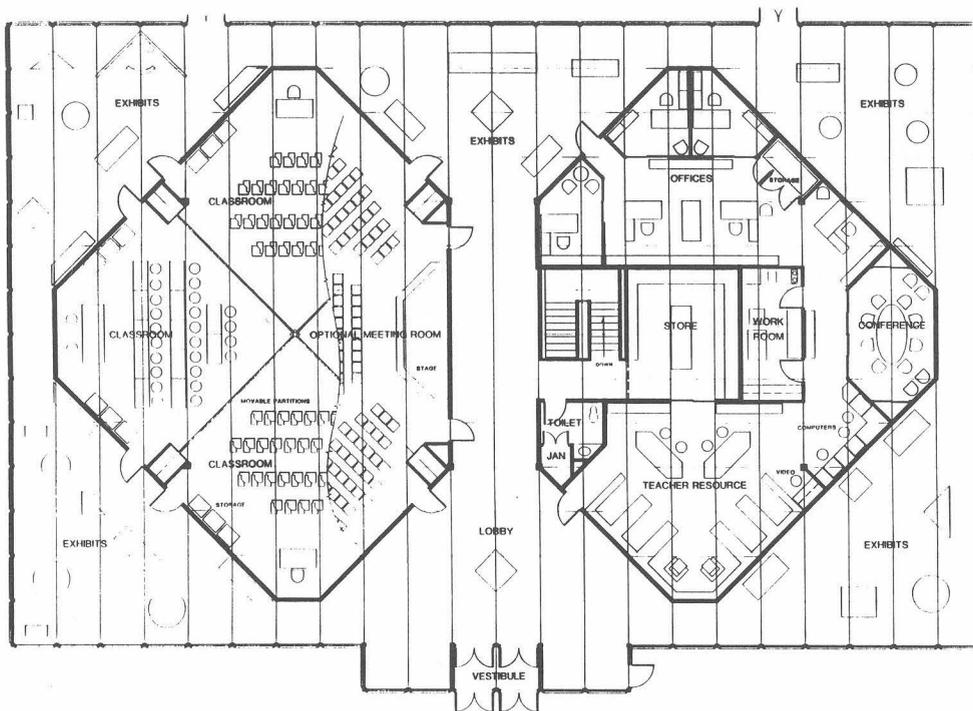
viding materials and services to schools.” Science educators and school librarians in Kane and DuPage counties will form an education network with the TRC serving as a clearinghouse for ideas, materials, and resources. Teachers will have access to space in the Center where they can build classroom demonstrations and assemble science kits from supplies provided at cost. A pool of scientists, teachers, and others with science expertise will be accessible via hotline.

The formal-education programs include: the Department of Energy (DOE) High School Honors Re-

search Program, which brings students to Fermilab from each state, Puerto Rico, the District of Columbia, and six Economic Summit countries for a two-week program of seminars with Fermilab scientists as well as to work on a Fermilab experiment; the DOE Teacher Research Associates Program, an opportunity for some 20 teachers selected from both regional and na-

tional schools to work with a scientist or engineer on a research project during the summer at Fermilab; and the Summer Institute for Science and Mathematics Teachers at Fermilab, which enables 45 high school biology, chemistry, and physics teachers, and 15 mathematics teachers, to spend four weeks at the Laboratory attending lectures by research scientists and mathematicians, as well as computer, laboratory, and mathematics sessions with master

cont’d on page 3



economies in construction and materials choices. - R. Fenner

* * * * *

Three main program areas have been implemented by the Friends of Fermilab for the Science Education Center. Local school districts will be invited to become members of a program advisory group, which will play a role in determining the Center’s programs.

The first of these programs, the Teachers’ Resource Center (TRC), will “generate a stimulating atmosphere for science education by pro-

Noon Piano Recital Free to All in Auditorium

Here is an opportunity for employees and friends of Fermilab to enjoy the artistry of one of America's up-and-coming pianistic talents. Xerox Affiliate Artist Jeffrey Biegel, top prizewinner of the 1988 Crown Princess Sonja International Piano Competition in Oslo, the 1985 University of Maryland 15th Anniversary International Competition, and the 1984 Leeds International Pianoforte Competition, performs a special noon recital in Ramsey Auditorium on Thursday, October 19, 1989. The performance is free, and what better way to spend your lunch hour than listening to music of Chopin, Ravel, Rachmaninoff, and Strauss!

Mr. Biegel was chosen to participate in Affiliate Artists' prestigious Xerox Pianists Program, which allows him to perform as soloist with orchestras throughout the United States, participate in Res-

idency programs, and perform informal concerts in a variety of community settings. He will be performing the Liszt *Piano Concerto No. 1 in E Major* with the Elgin Symphony Orchestra at the Prairie Center in Schaumburg on October 13 and at Hemmens Auditorium in Elgin on October 14 and 15.

Following his New York recitals at Avery Fisher Hall and Alice Tully Hall, Jeffrey Biegel was hailed by the New York Times as a musician who "will soon be mentioned with the best of the current crop of pianists." In the Soviet Union, critics say he is possessed of "impeccable musical taste, cogent interpretations, and excellent mastery of the instrument. . .the audience thundered with long-lasting applause." Mr. Biegel has performed with the Danish Radio Orchestra, the National Symphony Orchestra, the Juilliard Philharmonia,

and the Oslo Philharmonic among others. Recital performances include appearances with the Mostly Mozart Festival in Avery Fisher Hall, the Aspen Music Festival, the Seattle Chamber Music Festival, and at the Library of Congress. He has recently returned from a tour of the Soviet Union.

Jeffrey Biegel's special Fermilab Recital on October 19 will last about one hour. So take a tip from the critics: "Jeffrey Biegel's concert should not be missed. This guy is going places."

Jeffrey Biegel's recital is part of a Xerox Affiliate Artists Residency, presented by the Elgin Symphony Orchestra. The Affiliate Artists' Xerox Pianists Program, administered by Affiliate Artists Inc., is sponsored by Xerox Corporation with additional assistance from the National Endowment for the Arts.

- Tammey Kikta

"Education"cont'd from pg. 2

teachers. Other programs include: Chemistry West and Physics West, teacher networks that allow high school teachers to share skills, teaching strategies, and materials; and *Topics in Modern Physics*, a teacher resource manual containing curriculum materials.

Finally, the K-8 Programs include Beauty and Charm at Fermilab, a hands-on curriculum unit that has to date trained over 90 teachers and brought over 5000 students to tour Fermilab, and the Wonders and Magic of Science, a science show for outstanding area science students, grades three to six.

A variety of classroom materials, created in conjunction with precollege education programs, are made available free of charge or at cost to teachers. Included are Beauty and Charm kits, Topics in Modern Physics resource books, videotapes,

and posters. Some of these materials have been translated into Spanish for Latin American scientists and teachers.

The Center's informal hands-on science programs designed to encourage creative investigation and thoughtful questions will include interactive exhibits, environmental exhibits, audio-visual materials, computers, and a science playground as part of Center's science education offerings.

The interactive exhibits will cover five areas: accelerators, detectors, scattering experiments, the structure of matter, and the structure of the universe. "Discovery rooms" will include table-top interactive displays in many areas of science and mathematics related to the school curriculum.

Activities Office

The Sunday Evening Tennis League (for intermediate and advanced players) will be moving to the Recreation Facility gymnasium this month. For information on participation, please contact Linda Even at ext. 4847. - Linda Even

Congratulations to:

Candy and John (A.D./Linac) Palkovic on the birth of their first child, Martin John, on September 10, 1989, at 7:35 p.m. Martin John weighed 8 lbs, 8 ozs, and was 21 in. long.

The Film Society...

. . .presents *The Manchurian Candidate*, the film of Richard Condon's classic novel of political paranoia, on October 13 at 8:00 p.m. in Ramsey Auditorium.

NALREC News

NALREC is proud to introduce Ken Horsey, Connie Kania, Charlotte Smith, Sherry Thill, and Angie Velasquez as new members of our Committee. They will represent their respective areas in our endeavors in the future. Please welcome them as we do.

Jesse Guerra and Gary Smith have scheduled the annual trip to **Maywood Park Race Track** for October 20. Bus transportation from Fermilab and back (with refreshments), the cost of entry to the track, and seating in a special section are all included in the \$9-per-person fee. These tickets will go in a hurry, so call Jesse at ext. 4305 for reservations.

Just in time to celebrate the end of our fiscal year, "**Octoberfest - Fermilab Style**" will be held on October 27. John Satti and Joanne Hall have hired a great band and have a very *very special surprise* in the way of entertainment. I promise you will not want to miss this. There has been talk of brats, sauerkraut, German potato salad, and refreshments. Special mugs commemorating the occasion can also be purchased.

Coming up: the **Children's Halloween Party**, our **Thanksgiving Social**, and the **Children's Christmas Party** and the **Christmas Dinner Dance**.

NALREC is still looking for a few new members. If you are interested, please first check with your supervisor, and then give me a call at ext. 3228. We also have received discount cards for the play *Shear Madness* at the Mayfair Theater. These cards reduce the ticket price to \$13. See Connie at the front desk. - *Trudy Kramer*

Estimated amount of glucose used by an adult brain each day, expressed in M&M's: **250**

Visual Media Services' VideoNews

We're here for you! Fermilab's VideoNews is *the* newsmagazine program design to inform employees and the general public about people and activities around the Lab.

Produced by the Lab's Visual Media Services Department, VideoNews documents the important breakthroughs and events happening in your workplace.

If you haven't seen us yet, VideoNews is available for viewing in the Atrium or on the Lab's TV system, on Channel 9, from 8:30-5:00, Monday through Friday.

Our goal is to keep you abreast of the progress, technology, safety procedures, people, and cultural activities happening throughout the Lab.

The VideoNews staff is interested in your feature ideas. Any interesting developments in your section or experimental area? Is there a particular person who deserves recognition? Any particular issue you feel needs to be brought to attention?

Employee awareness is our purpose. If any ideas come to mind, give us a call at ext. 4364. We're here for you!

Percentage of women who say they control the TV remote control in their household: **34**

Percentage of men who say they control the TV remote control: **56**

FermiNews is published by the Fermilab Publications Office, P.O. Box 500, Batavia, IL, 60510 (312)840-3278 TECHPUBS @ FNAL

Editor: R. Fenner

Editorial Assist.: S. Novack

Circulation: S. Hanson

- Fermilab is operated by Universities Research Association, Inc., under contract with the United States Department of Energy.

Cla\$ified Ad\$

FOR SALE Motorized Vehicles:

1988 FORD ESCORT PONY, 900 miles, 4-spd. manual trans., AM radio, 2-door hatchback, 45 mpg, biege, asking \$5900. 469-7418.

1987 VW GTI, radio/cassette, A/C, electric S/R, 27,000 miles, as new, \$7000. Call Allan Clark, ext. 3909 or 416-1970.

1984 DODGE CARAVAN, 5 pass., 2.6 l., 4 cyl., automatic, PS, PB, A/C, AM/FM stereo, new tires and brakes, no rust, very clean, 64,000 miles, asking \$4800. Call Dave at ext. 3125.

Miscellaneous:

G.E. ELECTRIC DRYER, like new, \$170. Call ext. 3629 or 232-4306 evenings.

VIDEO CONTROL MONITOR, Westinghouse/Sylvania, (VCM-2001), record any channel while watching another or w/TV off. Brand new, still in box. \$285 new, sell for \$190 or best offer. Call Steve at ext. 2946 or 983-4162.

New Stockroom Items

Dry Ink Plus, Xerographic, for Xerox models 1050/1052 duplicating machines, Xerox p/n 6R113, 4 bottles per carton. #1315-0765.

Developer, Xerographic, for Xerox Model 1050/1052 duplicating machines, Xerox p/n 5R140, 11 lbs per carton. #1315-0766.

Form, printed, Fermilab T&M Construction Task Order Requisition, 8-1/2 in. x 11 in., 50 sheets per pad. #1335-0210.

Cleaning kit, 8 mm tape drive, video cassette, Exabyte p/n 180123. #1780-0450.

Computer operations manual, *Using DCL*, #1307-0560.

Computer operations manual, *VMS General User Manual*, #1307-0565.

Computer operations manual, *VMS System Manager's Manual*, #1307-0570.