

FERMILAB NEWS

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A BEAUTIFUL CROP WITH A SERIOUS PURPOSE

Just across from Site 55--on the east side of Eola Road about half way between Butterfield Road and Batavia Road--14 acres of sunflowers are growing majestically, their yellow flowers a sea of moving color.

Their reason for being there is serious. Planted last May by employees of Fermilab Roads and Grounds, the crop's harvest of sunflower seeds will be used to prepare sunflower seed oil. The oil will be mixed in various proportions with diesel oil and the resulting blend used to run diesel engines. It is a continuation of a study being conducted by Technical Services on the use of alternate fuels. The investigation was begun earlier this year, when testing began by running a diesel engine on mixtures of sunflower seed oil and diesel oil as well as cotton seed oil and diesel oil.

At that time, Hank Hinterberger, head of Technical Services and Fermilab's energy conservation officer, explained that the project "is part of Fermilab's continuing effort to study ways of conserving our already scarce fossil fuels."

Under a canopy of shade trees, across Eola Road from the planting site stand 15 bee hives with their buzzing occupants actively pollinating the crop. The bees are on loan to Fermilab and will be returned when they have done their job.

John Paulk, head of Site Services, explained that "what we are doing here is not new. It's being done elsewhere, particularly in South Africa. North Dakota State University is also active in sunflower oil research. However, we have little local experience in this and we would like to learn what we can."

Some of the answers Paulk and Hinterberger are trying to determine include how well a sunflower crop grows here, and the economics. "Do we put more into it than we get out?" Any seeds that are not used will be given to wildlife. "We don't expect to waste anything," Paulk added. If the study



Energy conservation in the making, as acres of sunflowers bloom to brighten the Fermilab site. Eventually they will yield seeds, which in turn will be processed for their oil. The enthusiastic project is part of Fermilab's overall program to conserve energy and to find economical and efficient alternative fuels.

turns out well, more acreage may be planted in the future.

The money that is paying for this study comes from corn lease contracts. Fermilab leases some acreage to farmers for corn production. This provides an income that is always "put back into the land," said Paulk.

There are two classes of sunflowers based on their seed characteristics. One group contains the oilseed varieties, grown as a source of oil and meal. The nonoil varieties are grown for human and bird food. The crop being grown here, of course, is an oilseed variety. The field preparation and crop planting were done by members of the Fermilab Roads & Grounds crew.

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FERMILAB AWARDED CONSERVATION CITATION

Fermilab was awarded a citation by the Department of Energy for the Laboratory's outstanding energy conservation programs.

The presentation was made July 31 in the Dirksen federal building in Chicago by John P. Kennedy, director of the Office of Regional Activities, Chicago Operations and Regional Office, DOE. Accepting for Fermilab were Bruce Chrisman, business manager of Fermilab, and John Colson, head of Support Services. Fermilab was recognized particularly for its use of gasohol and its drivers' training course called DECAT-- Driver Energy Conservation Awareness Training. (See FERMINews, Aug. 7, page 3, for a story about DECAT.)

In thanking DOE for the honor, Chrisman explained how Fermilab began the gasohol program last year by using a mix of 10 percent alcohol and 90 percent gasoline. As Fermilab gained experience, the ratio was changed to 15 percent alcohol and 85 percent gasoline. "It's working remarkably well for us," said Chrisman. "We have had no particular problems, and we plan to continue in this mode."

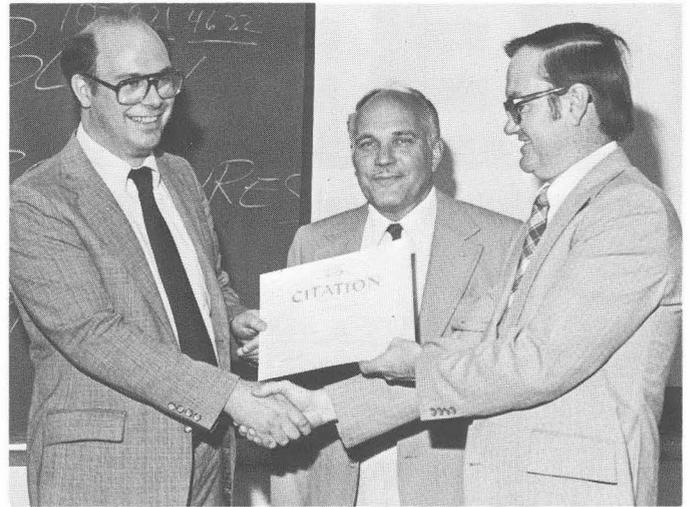
Chrisman went on to say that by coordinating trips and by applying other conservation techniques, "we have recorded a 16 percent savings in fuel consumption." He added that Fermilab's extensive conservation programs have come about because of the "real dedication on the part of our top management to energy conservation and the enthusiasm of our director to comply with the President's energy guidelines."

This was the third year in a row Fermilab has been awarded the citation. Others who also were recognized by the DOE for their outstanding conservation programs were the Argonne National Laboratory and Illinois Bell Telephone Company.

The awards ceremony was the concluding event of a two-day federal energy conservation conference conducted in the Dirksen building. It was co-sponsored by the Federal Programs Office of DOE and the Federal Executive Board. More than 150 people participated in the conference. Those from Fermilab included Hank Hinterberger, Penny Horak, John Paulk, Fred Moore, Chuck Huang, Bill Riches, Linda Even and Colson.

Karel Klima of the Chicago office organized the conference.

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Bruce Chrisman (left) accepts citation from John P. Kennedy (right). Also participating in the ceremony is John Colson.

CHAMPIONSHIP GAME AND TOURNAMENT TO BRING END TO SOFTBALL PLAY

The 1980 Fermilab softball season will end with a championship game on Aug. 26 and a tournament that begins Aug. 27.

The championship game will bring the first and second round winners together at 6 p.m. at the Village baseball field, where the tournament also will be played.

All eight teams in the Fermilab Softball League will play in the single elimination tournament. Two games will be played each of the three days the tournament is underway. On Aug. 27, the first game between the third and sixth place teams will begin at 5:15 p.m. The second game between the second and seventh place teams will follow at 6:45. Then on Aug. 28, the fourth and fifth place teams will play at 5:15 p.m., followed by the first and eighth place teams at 6:45 p.m.

The semifinal game between the two Aug. 27 winners will be played on Sept. 2 at 5:15 p.m. The two Aug. 28 winners will compete on Sept. 2 at 6:45 p.m.

The two losers of the Sept. 2 games will play in the consolation game on Sept. 3 at 5:15 p.m. The tournament title game will follow at 6:45.

The rain date for the league championship game is Aug. 27. Tournament rain dates are Aug. 29 and Sept. 3 and 4.

An all-star game with the league's best players will be held Sept. 5 during NALREC's annual ball party.

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NATALIE HINDERAS TO PERFORM IN CONCERT

by Ruth Ganchiff
Entertainment Editor

Fermilab's seven-foot Steinway piano will be put to excellent use when Natalie Hinderas, internationally acclaimed pianist, appears on our stage Sept. 13.

Her concert will begin at 8 p.m. in the Central Laboratory auditorium. She has appeared as a soloist with almost every major symphony orchestra in this country, including Chicago's. Hinderas will play a program of Haydn, Debussy, Chopin and Prokofieff.

Winner of many prizes and awards, she was twice selected by the U. S. Department of State to act as American cultural ambassador. Hinderas is a professor of music at Temple University, Philadelphia, and serves on the Pennsylvania Council of the Arts Music Committee. She also was recently honored by Swarthmore College when they conferred on her an honorary doctorate of music.

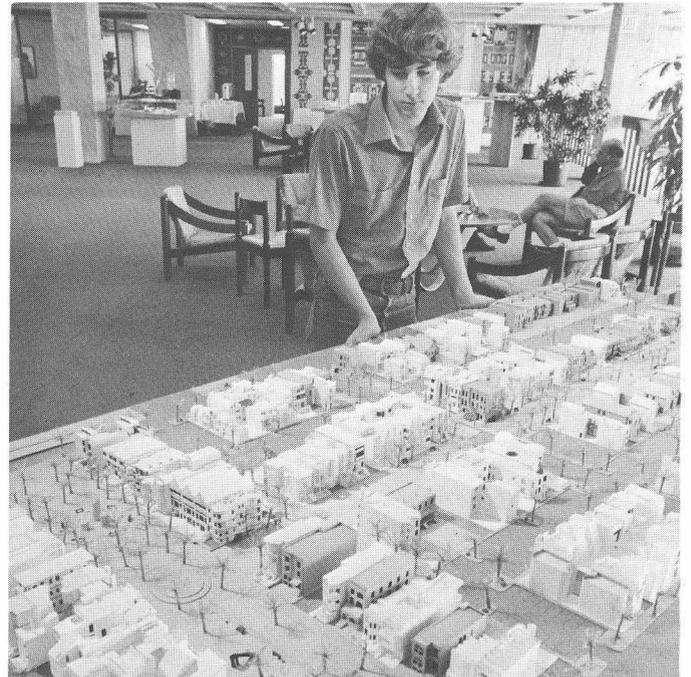
The past four auditorium series events have sold out as much as two weeks before the performance, attesting to their tremendous popularity with the community. Since the Auditorium Committee is quite interested in making tickets easily available to Fermilab employees, its members recommend that you get yours as soon as possible.

Tickets may be purchased at \$5 each at the ticket sales desk in the Central Laboratory atrium.



Natalie Hinderas

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Charles Thornton, 15, looks at the Campbell Park Community Plan model in the architectural exhibit.

NEW EXHIBIT SHOWS ARCHITECTURAL ASPIRATIONS

Three-dimensional models and architectural drawings will be displayed until Sept. 25 in the exhibit area, CL2-S.

They are the works of advanced students from the Illinois Institute of Technology and the Circle Campus of the University of Illinois. Michael Gelick of the Circle Campus and R. Ogden Hannaford of IIT assisted the Fermilab staff in putting the exhibit together.

"The architecture of the Chicago area is exciting," said Sandra Cox, art consultant. "An area with structures designed by Mies Van der Rohe, Frank Lloyd Wright and many other internationally-known architects creates an atmosphere of lively interest and study of the subject. That's why the work from these schools of architecture should be of special interest to viewers."

She also said, "One fascinating example of the many student ideas is the group project from the Circle Campus. On a large base is an outline of a known Chicago neighborhood. The neutral color models are the existing buildings, while each white model is a student's concept of an individual townhouse."

The models from IIT also show a diversity of ideas, Cox continued.

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SPECIAL NOTICE

On Saturday, Aug. 23, normal electrical and ventilation service in the Central Laboratory will be shut off between 6 a.m. and 6 p.m. Only minimal lighting, communications and elevator service will be maintained. The cafeteria will be closed. Please take these disruptions into account when making plans for that day.

OH, OH, THAT TIME OF YEAR AGAIN

Fermilab's popular buffalo chip throwing contest is coming Aug. 28.

A NALREC presentation--the third annual one--it will be held at the Village Barn from 5:15 to 9:00 p.m. Sloppy Joes, broiled corn and a variety of beverages will be available. "Running Fox," a bluegrass band, will provide the entertainment.

For more information, any NALREC representative may be asked. (The rules require that only stock chips may be used, no substitutes.)

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GOLF LEAGUE TOURNAMENT

The Fermilab Golf League will hold a tournament Sept. 13.

It will take place at the Country Lakes Golf Course, near the intersection of Highway 59 with Highway 5, with tee-off time at 11:45 a.m.

The fee for league members is \$10; for guests (with no dinner), \$15; and for guests (with dinner), \$20. The cost includes a golf cart that will serve two golfers.

For reservations, contact William Froemming, Ext. 3101, or Darrell Sigmon, Ext. 3492.

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FAMILY DAY TOUR

A tour for Fermilab families and visitors will be given by the Public Information Office at 1:30 p.m. on Friday, Aug. 22.

Call Ext. 3353 to make reservations.

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MARATHON RECORD TOPPLES

Members of the Electrical-Electronics Support Group, Accelerator Division, set a new Main Ring marathon record of 3 hours, 19 minutes and 25 seconds on Aug. 8.

They beat the old record set in June by the Internal Target Group by 8 minutes and 27 seconds.

In a Main Ring marathon, the times of the first seven finishers constitute the total time to run a distance of 26.6 miles. All runners start out together and run one lap around the Main Ring.

Greg Pucci came in first with a time of 23 minutes, 29 seconds, 97 one-hundredths of a second. He was followed by Geroge Krafczyk, 25:26:27; Lloyd Klein, 28:5:82; Kevin Jordan, 28:45:92; Rodolfo Gonzalez, 29:48:38; Dan Wolff, 30:38:71; and Dave Huffman, 33:10:36, for an overall total of 3 hours, 19 minutes and 25 seconds.

Also running were Leroy Middlebrooks, 34:39:72; Wayne Brown, 35:3:50; Bob Hively, 36:3:52; and Bill Wickenberg, 40:35:75.

The average time for each of the 11 runners was 31 minutes, 26 seconds and 18 one-hundredths of a second. The average for the first seven runners was 28 minutes, 29 seconds and 35 one-hundredths of a second.

Gerry Tool, group leader, was the timekeeper. The marathon began at 8 a.m.

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SURF 'N TURF DINNER

NALREC will hold a surf 'n turf dinner Sept. 12.

The affair will begin at 5:30 p.m. in the picnic area west of the Barn. Dinner will be served at 6 p.m. Entertainment will be live. The price is \$10 for each participant.

Tickets may be obtained by calling Pat Yost, Ext. 4365. They must be picked up by Sept. 5.

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CHEZ LEON - call Ext. 3524 for menus and reservations.

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