

FERMILAB NEWS

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CONSERVATION MAJOR HOPE FOR U. S. ENERGY FUTURE

"We do have a good reliable source of energy," Dr. Daniel Yergin told a nearly full auditorium of persons who had come to hear him and Dr. Robert Stobaugh talk about this country's energy future last Friday at Fermilab.

He identified that source as "conservation energy." Yergin, lecturer at the Kennedy School of Government at Harvard University, also told his audience, "As we see it, a major threat to our standard of living is not to conserve." Given the present circumstances, the "best way to protect our standard of living is through energy conservation," he further said.

This was the ray of hope promised by Yergin and Stobaugh, professor of business administration at the Harvard Graduate School of Business Administration. Stobaugh, who spoke first, told the audience that the trip they were about to take into the future would leave them with an uncomfortable feeling about this country thriving without some pervasive alterations in its energy policies. Stobaugh eliminated the present major energy sources as the magic elixir that will turn the nation's energy fortunes around. On that gloomy note, he stepped from the stage and let Yergin carry the more optimistic tone of their presentation.

The two men currently are riding the crest of a popularity wave that has carried them to national prominence and into the waiting arms of the congressional committees in Washington, D. C., that are seeking to understand the nation's energy problems. All of this was brought about by the recent publication of their book "Energy Future: The Report of the Energy Project at the Harvard Business School" published by Random House. Holding within its 353 pages the results of a six-year study on the energy issue, the book is rapidly becoming a best seller, much to the embarrassment (according to Yergin) of its two editors. Stobaugh was director of the study.



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...Stobaugh (left) and Yergin...

He said at the beginning of his talk that he and Yergin "came to the conclusion a while back that we (this nation) have an energy problem." He warned that it would be folly to become complacent, as people did after the 1973 OPEC oil embargo ended, and think this second shock will vanish and the country will return to a more normal condition.

That was the gist of their talk, which they had titled "After the Second Shock: Our Energy Future." They argued the energy shock is no myth and that the country must begin to respond to it in effective ways that go beyond mere tinkering with superficial issues.

Energy conservation is one of those effective ways they recommended. It can spur economic growth, they contend. They further said that generally the more energy is used the more problems multiply, possibly to the point that excessive energy use could have a negative impact on economic growth.

It is essential that this nation "get a handle on energy consumption," said
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Yergin. "The U. S. does have an impact on its own well being," Yergin said in his summary. "The more oil we use, the worse off we will be.

"We face an energy problem; it's not likely to be solved by petroleum and altruism, but by a concrete recognition by others of our self-intent.

"The energy problem is real and very serious. It is our conclusion that if we as a nation get our thinking straight, the problem will become eminently manageable."

Following their talks, Stobaugh and Yergin answered questions from the audience. Subjects included nuclear power, environmental protection, public policy, OPEC, deregulating oil, conservation of energy, and many others. The program was presented jointly by Fermilab and the Illinois Humanities Council.

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FERMILAB INCLUDED IN HERITAGE TRAIL CENTERS

Fermilab is included in a list of heritage trail centers published in a recent Sunday issue of The Daily Journal.

The list was carried in a special section of the newspaper devoted to the heritage of DuPage County. Among the other stops recommended by the newspaper are Wheaton College, DuPage County Historical Museum, restored Stacy's Inn, Morton Arboretum, Cantigny and McCormick home, Elmhurst and Lombard museums, Naperville-Mitchell museum and Hinsdale Graue Mill.

The article said Fermilab is "the largest of all U. S. high energy physics research centers." Among the historically significant sights and activities here, the article lists the laboratory's buffalo herd, which is the largest in northeastern Illinois; the area being seeded to recreate the original prairie vegetation that settlers found here; and the gravesite of a soldier of the War of 1812 buried in a family plot on the site.

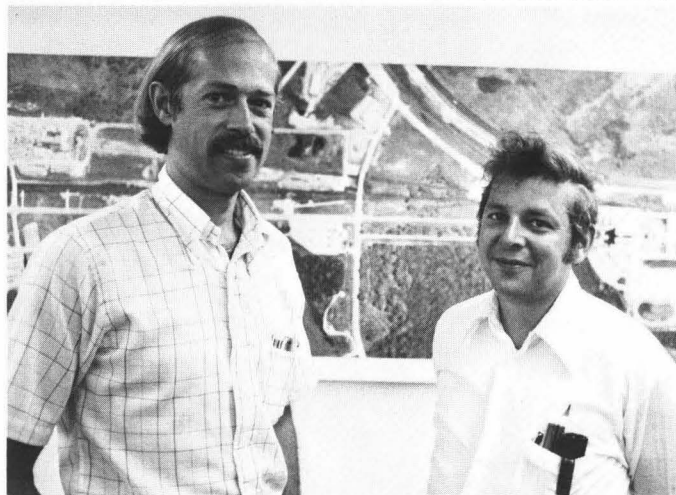
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NEW IN THE LIBRARY

"Nuclear Physics in Retrospect (Proceedings of a Symposium on the 1930's)", edited by Roger H. Stuewer. This book is relevant to the International Symposium on the History of Particle physics that will be held May or June of next year at Fermilab.

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USERS EXECUTIVE COMMITTEE ELECTS OFFICERS



...John Rutherford (left) and Frank Sciulli...

John P. Rutherford, University of Washington, Seattle, was elected chairman of the Fermilab Users Executive Committee.

He succeeds Frank Sciulli, California Institute of Technology. Charles M. Ankenbrandt, Fermilab, was elected secretary.

In addition to Ankenbrandt, other newly elected members are George Brandenburg, Massachusetts Institute of Technology; Thomas J. Devlin, Rutgers University; Henry J. Frisch, University of Chicago; Konstantin Goulianos, Rockefeller University; and Lawrence W. Jones, University of Michigan.

Continuing members, in addition to Sciulli and Rutherford, are Robert Diebold, Argonne National Laboratory; Albert Erwin, University of Wisconsin; A. Lincoln Read, Fermilab; Pamela Surko, Princeton University; and Stanley Wojcicki, Stanford University.

The meeting and election were held July 28 at Fermilab.

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GASOLINE HOT-LINE TELLS WHERE IT'S AT

Going somewhere? Wondering if there'll be enough gasoline available to get there and back?

Then dial (800) 252-8987, toll free.

That call will connect to a two-minute recorded message on the availability of gasoline throughout Illinois. The around-the-clock service was set up by the Illinois office of Tourism, Department of Business and Economic Development.

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NOW IS TIME TO PREPARE FOR FALL COURSE WORK, REMINDS RUTH CHRIST

Now is the time for Fermilab employees to begin thinking seriously about enrolling for fall courses in area colleges, said Ruth Christ, coordinator of Fermilab's tuition reimbursement program.

For a number of area colleges, registration begins near the end of this month, with classes starting either late this month or early in September (see table for dates).

Christ has in her office, CL6-E, catalogues, schedules and other literature from many area colleges. The items may be examined at any time.

Furthermore, Fermilab will cover 100 percent tuition, required fees and books, Christ said. "The purpose of this program is to encourage employees to develop and enrich their work-related skills. Courses or a degree program related to current employment or a job to which one can reasonably aspire, qualify for reimbursement. A student may take up to 10 credit hours per term and receive expense payments for tuition and required fees and books when studies are satisfactorily completed."

All full-time employees are eligible. To register for tuition reimbursement, an employee must fill out an educational support request form. These are available from Christ. She also provides basic counseling about area school programs and

enrollment procedures.

Christ said the Laboratory's educational program is flexible and designed to meet student needs. For example, advance payment of school expenses is an option. Employees must have completed probationary status to utilize the tuition reimbursement benefit. Only a few days are required to process an advance request.

Persons with questions should contact Christ at Ext. 3324.

Earlier this year, eight employees of Fermilab were awarded advanced degrees earned through the Laboratory's tuition reimbursement program. Most of them had attended classes in the evenings and on weekends.

Fermilab encourages all of its employees to advance their education, said Christ. Advance approval by the student's supervisor is required. Generally, the course to be taken must be appropriate and pertinent to the employee's current career or a possible future job at the Laboratory.

One of those eight students said, "It was fun at night. You go to school with people like you, who work all day. We get along. It's easier to relate to one another because they are doing the same thing you are."

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<u>A R E A C O L L E G E S A N D U N I V E R S I T I E S</u>		
<u>Institution</u>	<u>Registration</u>	<u>Classes Begin</u>
Aurora College	Aug. 30 - Sept. 1	Sept.-4 (quarter ends Nov. 25)
College of DuPage	Open registration until Sept. 14 (also by mail)	Sept. 24 (quarter ends Dec. 16)
Elgin Community College	Aug. 13-18	Aug. 20 (semester ends Dec. 19)
Illinois Institute of Technology	Aug. 20-21	Aug. 28 (semester ends Dec. 19)
Joliet Junior College	Until Aug. 17	Aug. 20 (semester ends Dec. 18)
Midwest College of Engineering	Sept. 10 (Until Sept. 10 by mail)	Sept. 24 (quarter ends Dec. 19)
Northern Illinois University	Sept. 24-25	Aug. 27 (semester ends Dec. 15)
Waubonsee Community College	Until Aug. 24	Aug. 27 (semester ends Dec. 19)

RODEWALT WINS MEDALS AT MINI-OLYMPICS

In his quiet and steady voice--certainly as steady as his hand during competition--Byron "Buzz" Rodewalt told about his ambition.

"My goal is to be an Olympic gold medalist," said the senior cryogenics technician. He works for Research Services in Laboratory 6.

Rodewalt had just returned from a triumphant shooting competition at Colorado Springs, the site of the National Sports Festival--dubbed the "Mini-Olympics" by the national media. He had shot his way to a silver medal--second place--in the air pistol competition and to another silver medal in the team air pistol competition.

To earn the right to compete in the Mini-Olympics, Rodewalt earlier this year in Phoenix, Ariz., placed ninth in air pistol and sixth in free pistol, a firearm that shoots 22-caliber ammunition. He thus made the U. S. air pistol team--his first time--and wound up in Colorado Springs. It was this team that eventually was divided into four sub-teams that competed against one another for medals.

The basic purpose of the Mini-Olympics is to give athletes a taste of what the real Olympics will be like, said Rodewalt. It helps the athletes keep their feet on the ground and their senses under control so that they can compete at their optimum level, he added. While at Colorado Springs, he and other athletes met top-flight coaches who helped them train and answered their questions. And top-flight people like former astronaut Jim Erwin gave talks on mental preparedness as well as on other subjects.

The U. S. Olympic Committee funded the air pistol team.

Rodewalt wants to go to the 1980 Olympics in Moscow as a member of the free pistol team. He's eligible to try for the team. He doesn't really expect to win a medal at Moscow if he goes. But come the 1984 Olympics, he will make his try for a gold medal in free pistol and one in air pistol. This will be the first Olympics that will recognize air pistol as an official Olympic sport, he said.

"I will have four more years to prepare for the 1984 Olympics," said Rodewalt. He practices two hours each day,



...Buzz Rodewalt...

seven days a week. And he's been specializing in these two guns--air pistol and free pistol--for 4-1/2 years.

This intense dedication has carried him to the top. He's the first ranking civilian shooter in the country. At Phoenix, a military person took first place and civilians captured the next four places in free pistol. "There probably are no more than 100 people in this country as dedicated to this sport as I am," said Rodewalt.

Rodewalt's major hurdle in the 1984 Olympics will be the Russians, who have dominated the free pistol competition for the last 27 years. But Rodewalt notes that this country is coming along fast at the world level. By then competition from Americans is expected to be considerably more respectable than in the past.

And Rodewalt plans to be one reason for that respectability.

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MAIL STATIONS BEST WAY

It's the best way to send mail.

Use mail station numbers.

So says Carolyn Hines, manager of communication services at Fermilab, and just about everybody else who had the advantage of studying the system. "A mailed item is more likely to get to its destination--and into the person's hands for which it was meant--faster and more reliably, which means it's less likely to go astray, if you use the mail station number," said Hines.

A list of mail station numbers and locations is on page 21 of the Fermilab telephone directory. However, Hines and her staff are preparing a more comprehensive and updated list which will be available from her office, Ext. 3788.

"Once people become accustomed to using mail stations, they will find it faster and easier than the old name and address system," said Hines. "It also will mean less complications for the mail delivery service. Each telephone number in the phone book is accompanied by a mail station number."

If a department plans a mass mailing, to people throughout the Fermilab site, labels addressed by mail station numbers are available, said Hines. This is one example of how the use of mail station numbers can get a job done quickly and efficiently, she added.

Hines also encourages people to use mail station numbers for return addresses on outgoing mail.

So mail stations are in. Old style addresses are out. It's just that simple and to everyone's benefit.

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ARGONNE CREDIT UNION OFFERS MORE FOR MONEY

The Argonne Credit Union--the one which also services Fermilab--offers 6-1/4 percent on savings paid from the date of deposit to the date of withdrawal.

Banks usually pay 5 percent and savings associations pay 5-1/4 percent. Deposits at the credit union are insured to \$40,000.

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Black Contributors

To Science and Energy Technology



DOE PUBLISHES BOOKLET ON BLACK SCIENTISTS

The Department of Energy has published a 28-page booklet about black scientists.

Called "Black Contributors to Science and Technology," the booklet tells about the lives and contributions of 24 prominent scientists and inventors. A copy of the booklet is in the Fermilab library, CL3-S, and a limited number are available in the Public Information Office, CL1-W.

Each half-page biography is accompanied by an artist's sketch of the person. The men and women written about are Norbert Rillieux, Elijah McCoy, Lewis H. Latimer, Granville Woods, Garrett A. Morgan, Archie Alexander, David Crosthwait, Frederick M. Jones, Louis W. Roberts, Katherine Johnson, Otis Boykin, O.S. (Ozzie) Williams, J. Ernest Wilkins, Rufus Stokes, Virgil Trice, Meredith Gourdine, Annie Easley, James Harris, Caldwell McCoy, Clarence Elder, Cordell Reed, Donald Cotton, Ernest Coleman and Lawnie Taylor.

"Much of their work has been energy related--if not in the development of energy resources or processes, then in the more efficient or productive use of energy, as in space technology, transportation, construction and other applications," the booklet's introduction states.

IN MEMORIAM

Jane Ann Watson



...Watson...

Jane Ann Watson, 31, who died Aug. 4 in a sky diving mishap, was a laboratory assistant with Safety in the Accelerator Division.

She had been with Fermilab since June 22, 1978. Watson was graduated from high school in Depew, Okla., and then attended Oklahoma State University. She also attended DuPage Horticulture School in West Chicago.

Survivors include her mother, Mrs. Georgia Watson, and a sister, Virginia.

A memorial fund has been set up for the family. Persons wishing to contribute may call Marge Harvey, Ext. 3800.

Kim Biwer, 13, daughter of Fermilab employee Richard L. Biwer, captured third place with her 0.2-pound bass. Her dad is a technical specialist with the Main Ring group. He described his daughter as an experienced fisherwoman who enjoys fishing off the pier at Lake Geneva. Organizer of the competition was Keith Schuh, accelerator controls.

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THAT CONTEST IS HERE AGAIN

It's that time of year again, and gloves will be provided.

Fermilab's second annual buffalo chip throwing contest will be held Aug. 6 at the Village Barn. It will begin at 5:15 p.m with a social hour.

Trophies will be awarded for the longest throw in the men's division and in the women's competition. Last year, more than 200 persons showed up.

Glenn Lee, Ext. 4448, chairman of the contest, has the questionable job of collecting the buffalo chips--which naturally come from the Fermilab herd. He said contestants are not allowed to modify the chips, although they can pick the ones they want to throw.

And if the chips run short. That's no problem. "We'll use them over again," said Lee.

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FERMILAB POPULAR ATTRACTION FOR INTERNATIONAL VISITORS

More than 3,400 persons visited Fermilab during July.

They came from more than 30 foreign countries and from 42 states. The weekday average was around 80 persons; Saturday average, 130; and Sunday average, 230.

The foreign countries represented include Australia, Austria, Belgium, Brazil, Canada, Czechoslovakia, Chile, China, England, Wales, Scotland, France, Germany, Greece, Guam, Guatamala, Holland, Honduras, Indonesia, Iran, Italy, Japan, Mexico, Nigeria, New Zealand, Phillipines, Poland, South Africa, Spain, Sweden, Switzerland and West Germany.

STOCKROOMS TO CLOSE AUG. 20-24

The two Fermilab stockrooms will close later this month to take annual audited inventories, said Gene Guyer, stores supervisor.

The Central Laboratory stockroom will close Aug. 20 and 21, while the stockroom at site 38 will close Aug. 22-24.

"To maintain service continuity, one stockroom will make emergency--and I emphasize emergency--issues while the other undergoes inventory," said Guyer. Phone Ext. 3808 for additional information, Guyer added.

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OBERHOLTZER WINS AGAIN

Robert D. Oberholtzer proved he could do it again. He won the Fermilab fishing competition for the second year in a row Aug. 5. His 0.84-pound bass earned him the first place trophy.

Oberholtzer works with the External Beams Systems Group of the Accelerator Division.

This year 18 people competed for top honors. Second place went to Jim Elliott for his 0.6-pound bullhead catfish. And