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ENERGY INDEPENDENCE A MATTER OF SURVIVAL, BETHE SAYS

Hans Bethe, awarded the Nobel Prize in 1967 for his research on the energy production of the stars, spoke to a Fermilab audience on Wednesday, April 16. His topic--updating a visit to Fermilab a year ago--was "Energy Revisited."

A professor at Cornell University, in 1972 Dr. Bethe chaired an academic study of U.S. energy needs for the former U.S. Atomic Energy Commission. He is frequently called on to assess U.S. energy status and demands. Dr. Robert Wilson, introducing Bethe, remarked, "It seems appropriate that the Nation turned to the man who figured out how the stars produce energy."



...Hans Bethe visits Fermilab...

Dr. Bethe pointed out that the current economic recession changes the energy crisis because surpluses of gasoline, for example, have accumulated during the period of decreased consumption and of conscious consumer efforts to reduce the use of energy. When the recession is over, he said, the problem will return with the same urgency exhibited in 1974.

"The goal of energy independence in the U.S. is not luxurious or a matter of prestige, but survival," he said. "We have some reserves, but many other countries have none, and if we compete for their supplies it will only make the situation worse." Immediate conservation steps and studying other ways to save energy are imperative. But a decrease in energy consumption means a decrease in the gross national product, he said. "People are indulging in delusions if they think it won't disturb the economy."

Proper concern should be expressed about the large shift of money to Middle Eastern sources following the settlement of last year's crisis. Use of energy for an increase in food production is a must, he feels.

Bethe approves of the "good old fashioned economics" which proposes to keep oil prices high to discourage use and to encourage exploration and expansion of new sources, such as the development of oil shale. "This should have high priority," he said. Another good investment would be pumping oil out of old oil wells.

Dr. Bethe praised the Rasmussen report on nuclear reactor safety which concluded that reactor accidents might occur in 1 of 2,500 reactor use years. It is a competent study, he thinks, and has already increased safety by a factor of 2 by suggestions made by the Rasmussen group to the industry in the course of the survey. Reactor safety will continue to improve, Dr. Bethe predicted, if 1,000 reactors come into operation with improved technology. Serious consideration might be given to putting reactors underground, he observed.

Waste disposal is far less of a problem than reactor accidents, according to Hans Bethe. At the moment there are many solutions being proposed. He described one process in which liquid nuclear wastes would be solidified into grains, then imbedded in large glass rectangles which could be buried underground where radiation would be eventually absorbed.

Nuclear power involves risks, but the problems of nuclear power must not be considered in isolation. "We need power," he said. "It is the poor people who suffer most from the decline in the economy that a shortage of power would produce, and this leads to social upheavals."

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MIDWEST COUNCIL APPROVED BY AAAS AT FERMILAB

Fellows of the American Academy of Arts and Sciences voted unanimously at their 1,558th Stated Meeting at Fermilab on Saturday, April 12, to establish a Midwest Council of members. This was the first meeting of the 2,300-member Academy to held in the Midwest. Headquarters of the Academy has been located in Boston since its inception in 1780. A Western Center was authorized in 1973, located in Palo Alto, California.

Members of the American Academy of Arts and Sciences are chosen for achievement in scholarship or in professions in all disciplines. The new Midwest Council consists of members representing major institutions of higher learning in the Midwest. At the outset, the universities of Illinois, Minnesota, Wisconsin, and Michigan, as well as Case Western Reserve, the University of Chicago, and Northwestern University will be represented on the Council. The Council will encourage the membership in the Midwest to bear more directly on the national programs and studies of the Academy. Ruth Adams, 5757 South Woodlawn, Chicago, will coordinate Midwest activities for the Academy.

The April 12 meeting at Fermilab was hosted by Dr. Robert Wilson, Director of Fermilab, who spoke to the afternoon session of the meeting about the purpose and status of the Laboratory's high energy physics research. Valentine Telegdi, distinguished service professor at the Enrico Fermi Institute of Physics at the University of Chicago, addressed the evening session. Harvey Brooks, president of the Academy and dean of the division of engineering and applied sciences, Harvard University, presided at the business session.

Brooks announced that the April, 1976 Stated Meeting of the Academy will be held at Indiana University at Bloomington as part of a bicentennial observance there.

The Academy has provided intellectual leadership in the U.S. for the nearly 200 years of its history by initiating studies and research in which all disciplines participate. Founders of the Academy established its purpose, "to cultivate every art and science which may tend to advance the interest, honor, dignity, and happiness of a free, independent and virtuous people." The famous Pugwash conferences on global problems and several international research projects are sponsored by the Academy. The distinguished scholars from many disciplines hold conferences on a wide range of topics on behalf of the Academy.

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BETTELHEIM LECTURE HERE MAY 2

Bruno Bettelheim, one of the world's foremost authorities on the treatment of emotionally-disturbed children and the problems related to their disturbances, will lecture at Fermilab on Friday, May 2, at 8 p.m.

Director for 29 years of the University of Chicago's Orthogenic School (a residential center for disturbed youngsters), Dr. Bettelheim continues to be active in teaching at the University since his retirement. He is also involved in research on the application of psychoanalysis to education. Born in Vienna, Austria in 1903, he received his Ph.D. in psychology and philosophy from the University of Vienna. He has been associated with the University of Chicago since coming to the United States in 1939.

Bettelheim's books cross the field of rehabilitation of children to include broader issues of social psychology. His most recent book, *Children of the Dream* (1969), discusses communal childrearing in the Israeli kibbutzim and its implications for American education.

Another of his books, *Dialogues with Mothers* (1962) is based on his many years of helping parents of normal children with problems of childrearing.

Both books have become popular resources in present-day awareness courses.

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GET YOUR TICKETS NOW...NALREC SPRING FLING...Saturday, May 3...It's at the Alamo Ballroom in Aurora. Admission at \$4.00 per person includes Buffet Dinner. Dancing to the music of the Vikings from 9-1. Cash bar. Call Jo Baaske, Ext. 3046, Helen Ecker, Ext. 3393, Liz Foster, Ext. 4203, for tickets or information.

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FESTIVAL OF NATIONS LUNCHEON

Friday, April 25

Fermilab Cafeteria

FROM WHENCE WE CAME, TO WHERE WE ARE...

A visit with Black Culture
featuring Soul Food

Joyce Curry, Shirley Burton,
hostesses

Joe Davis, Program M.C.



...(L-R) Shirley Burton, Joe Davis,
Joyce Curry...

From the pages of a well-used cookbook entitled, "Princess Pamela's Soul Food Cookbook," come the recipes for this Festival of Nations luncheon, planned by the Black employees of Fermilab. "The origin of soul cookery is a study of the lineage of the Afro-American rocked from a troubled birth in the cradle of the South. The birthplace, in speech and lifestyle, in rhythm and folklore, is indelibly printed with the traces of black progeny--a bonded people with a soaring spirit, a soul which no fetters could seize upon and wrestle to obedience," the book says.

Joyce Curry (EEO Office) and Shirley Burton (Directors Office) have arranged the menu of foods traditional in American Black families. Main entree will be a choice of southern style fried chicken or smothered pork chops. Recipes will be available for the dishes served.

Joe Davis of the Accelerator Division will M.C. a program of recorded music demonstrating the evolution of Black music and its role in Black history in the United States. A brochure describing the program notes: "The slaves, brought to the U.S. from many parts of Africa, continued to dance and make music as their ancestors had done, though not as freely as in Brazil or Haiti where African tribal music still survives." In the U.S. African music mixed with American folk songs, British dancing rhythms, and European harmony.

But the music quickly became intertwined with the burdens of the slave structure. Leader-chorus versions to lighten the work loads, lively dance rhythms for the few off-work hours, and spirituals to replace African religious rituals have become the best-known symbols of Black culture in the U.S. Repetitions of short song segments in a variety of improvised rhythms, accompanied by clapping hands and tapping feet, are familiar Afro-American musical fashions.

Music at the Festival of Nations luncheon will demonstrate Black Spirituals, Jazz, and Rhythm and Blues. A group of eight young dancers from Maywood will perform for 15 minutes at 12:00 and 1:00.

This is where we are, and whatever is ahead for Black culture will continue to be reflected in Black music.

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KIRK ROAD LIGHTING CHANGES COMING

The lighting at Kirk Road/Pine Street at the Fermilab main entrance is being improved under a contract between the Laboratory and the City of Batavia. Another overhead light with sodium vapor lights will be installed, as well as a new yellow flasher on the roadside intersection marker in the southbound lane on Kirk Road.

A right-turn-only sign at the exit lane on Pine Street from the Laboratory has been installed to remind employees to use the right lane for right turn and the left lane only for left turn and for straight ahead.

Several traffic counts have been made of this intersection, all indicating that neither flashers nor stop lights are justified by the statute standards of the Illinois Highway Commission at the present time. It is hoped that the latest warning devices will alleviate some of the concerns of employees who use this entrance daily.

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EPSTEIN SHOWING OPEN TO PUBLIC

An exhibition of 31 of the sculptures of Sir Jacob Epstein, American-born English sculptor, will be at Fermilab through May 9. The exhibit is located on the second floor of the Central Laboratory. The showing will be open to the public from 1-5 p.m. on Saturday, April 26, and Sunday, April 27. Everyone is invited.

Janice Roberts notes in the Fermilab Cultural Calendar: "We really have to consider ourselves fortunate to have 31 Epsteins now on view in the coffee lounge. There probably isn't a major museum in the world that doesn't have an Epstein; to be able to see such a large group from various work periods of his life is particularly interesting. Some of the earlier pieces on exhibit he himself referred to as belonging to 'the formative years of my life' and professional models were used. Others are of people he admired and loved, and some are of outstanding personalities of the era, whose likeness and character Epstein was so successful in capturing."

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GARDEN TIME AT FERMILAB

Spring is here, and judging by the phone calls that Village Services is receiving, many people are beginning to think about a garden.

Fermilab people who had garden plots in the Village last year will be given the opportunity to have the same plot again this year. However, reservations for former plots will close Friday, April 25th. After that time reservations will be taken on a first-come, first-served basis from all new gardeners. If a garden plot is assigned but not cared for, this plot will go back into the garden pool June 15th for re-assignment.

Rototillers will be available again this year. They will be issued on a first-come, first-served basis and borrowers will be required to sign a property pass slip. Pick up the rototillers at Village Services, 30 Sauk.

To reserve a garden plot, call Ext. 3421.

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CONGRATULATIONS...to Chuck Marofske (Personnel) and Loine Riggs (Personnel) on their recent marriage...to Jan (Meson) and Mary Ann Ryk on the birth of Jack Andrew on April 10 at Hinsdale Hospital...and to Rudy (Site Operations) and Susan Dorner on the birth of Gregory Rudolph on April 17 at Delnor Hospital...

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.....SPACE RESERVATIONS are being made for the NALREC Arts and Crafts Show to be held in the Atrium May 12-16. All crafts and exhibits are welcome. Call Denise Augustine, Ext. 3091 to register or get further information.

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THIS WEEK AT FERMILAB...Tuesday, April 29, Cocktail Hour, Users Center, 5-7 p.m., reduced prices.

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CLASSIFIED ADS

FOR SALE - mini bike, Sears, 3½ h.p., used 12 times, \$75. Cased violin, full size, new, \$75, German make. Call Ray Solfisburg, Ext. 3575, 896-7809.

FOR SALE - 1970 Econoline Van 300, 42,000 mi., good cond. \$1200 or best offer. Lullaby Canape Crib, good cond., \$40. 18,000 Admiral A/C, good cond, 220 AC,\$40. Ext. 3259

FOR SALE - Questar Standard w/quartz mirror, wide angle geometry, camera attachments. Best offer. J. H. McCrary, Ext. 3724.

FOR SALE - 1971 BSA Victor 500, good cond., \$500 or offer. Roger 665-0958.

FOR SALE - Child's bike seat, \$8.00/ Inch Worm, \$7.00/ Convert. Baby Stroller, \$20.00. Call Rich Parry Ext. 3724 or 892-8346.

FOR SALE - Pasture boarding w/barn use, exc. care., horses \$40, ponies \$35. S.W. Aurora, Leon Bartelson, Ext. 3259.

WANTED - To rent or buy a hard top trailer to sleep 6. John Satti, Ext. 3676.