

The Village Enterprise



fermi national accelerator laboratory

Operated by Universities Research Association Inc.
Under Contract with the Energy Research & Development Administration

Vol. 9, No. 20

May 19, 1977

FERMILAB FEATURED IN FILM

Last July, as America's Bicentennial celebration began to wind down, a British Broadcasting Co. film crew focused on Fermilab for a week. Robert R. Wilson, director, was interviewed. Filmmakers shot aerial views plus footage in the 15' bubble chamber, the Central Laboratory, and at several experiments. Dr. Richard A. Carrigan was the BBC's host during the visit.

Fermilab people and scenes recorded on film may be seen in "The Key to the Universe," a two-hour production on the breakthroughs in physics in the past two years in the United States and in Europe. Channel 11-WTTW, Chicago, will air the program Tuesday, May 24 from 7:30 to 9:30 p.m. and Sunday, May 29, from 2 to 4 p.m. The BBC and WTTW co-produced the film.

The Tuesday presentation will be carried nationwide by affiliates of the Public Broadcasting Service.

"Key to the Universe" reports on latest theories of high-energy physicists and astrophysicists concerning links between the macroworld -- the overall view of the stars and galaxies -- and the micro-world -- atoms and their components.

It explores composition of matter ... and rules that govern its behavior on a sub-atomic scale. The broadcast addresses itself to such questions as:

Are there many laws of nature or one law that assumes different guises?

What links the constitution of matter with nuclear, electrical and gravitational forces that make matter into stars, planets and living things?

On the broadcast, scientists clarify terms such as "neutrinos," "quarks," "strange" particles, matter/anti-matter and "black holes" in space.

Fermilab is among three national research facilities appearing in the film. Others shown include the Stanford Linear Accelerator, Menlo Park, Calif. and Brookhaven National Laboratory, Long Island, N.Y. Sites also shown are: Lawrence Berkeley Laboratory, Berkeley, Calif.; NASA Ames Research Center, Mountain View, Calif.; Kitt Peak National Observatory and McGraw-Hill Observatory, both at Kitt Peak, Ariz.; and CERN, European Nuclear Research Organization, Geneva, Switzerland.



...Fermilab's Central Laboratory area featured in BBC film...

(Continued on Page 2)

FERMILAB FEATURED IN FILM (Continued)



...Jim Ruddle (L), WTTW-TV senior news correspondent, and Nigel Calder, BBC science writer are co-narrators of "The Key to the Universe," a TV special featuring Fermilab...

Producer Alec Nisbett brought his "The Key to the Universe" cameras to Fermilab to show how physicists study the smallest particles of matter. Quark theory work at Fermilab is also mentioned. The film focuses at one point on Experiment 98, a team from three American universities and a British university who worked for three years at Fermilab.

Four Nobel prize winners will explain their roles in solving the mysteries of creation. They are: Burton Richter, Stanford Linear Accelerator Center; Samuel Ting, Massachusetts Institute of Technology; and Richard Feynman and Murray Gell-Mann, California Institute of Technology.

Stephen Hawking, leading black-hole-in-space theorist, is a major participant. His work brings together three great principles of nature that previously had seemed separate -- gravity, heat and the creation of matter -- in the concept that black holes can explode.

Nigel Calder, BBC award-winning science writer, wrote the television presentation and serves as narrator with WTTW senior news correspondent Jim Ruddle, formerly with Channel 5 in Chicago.

A book version of Calder's "The Key to the Universe" was published by Viking Press on May 10.

The program has been recommended by the National Education Association for showing in the schools of its 1,800,00 teacher-members.

The U.S. viewing is made possible by a grant from Hoffman-LaRoche, Inc.

The Fermilab Public Information office has purchased a copy of the production on video cassettes which is available for re-run in the viewing facilities of the Library.

The film illustrates too the cooperative efforts of scientists from all over the world -- including the U.S.S.R. and Communist China -- and shows how they mutually engage in experiments to discover the laws of nature. Jorgen Petersen of the Niels Bohn Institute of Copenhagen, for example, describes how the life of an experimental physicist has changed in the last thirty years, from that of a scientist working alone in the past, to that of being a team member in the present large laboratories such as Fermilab.

* * * * *



EAST, WEST MEET

A Kimono style show and tea ceremony provided a visitors' introduction to Fermilab Friday. New visitors and Fermilab ladies of Japanese background participated in the NALWO-sponsored event. A folk dance and medley of Japanese folk songs was included.



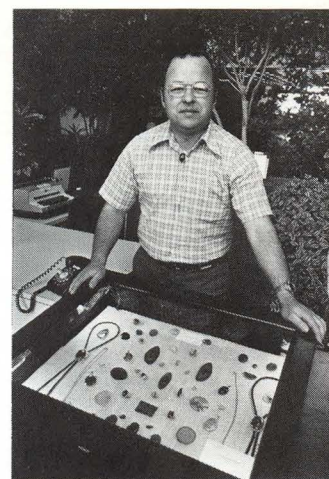


...Jan Ryk (Accelerator) bird woodcarvings...

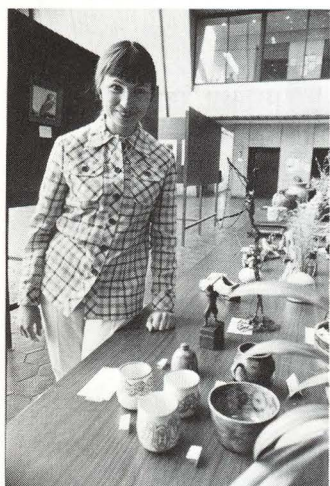
FERMILAB ARTS AND CRAFTS SHOW May, 1977



...Brenda Moylan (Administrative) plaster craft...



...Elton Anderson (Accelerator) Jewelry...



...Sandra Cox (Administrative) pottery...



...Clarence Carlson (Facility Oprns.) Jewelry/ceramics...



...Mary Novak (Accounting) Plaster craft...

* * * * *

SOCIALIZE . . .

. . . at an outdoor social hour sponsored by NALREC Wednesday (May 25) from 5 to 6:30 p.m. at the Village barn. Bratwurst, potato chips, beer and wine is on the menu. Tickets will cost \$1 for four. Food will require three tickets; wine, three; and beer, two.

* * * * *

SHORT TERM SHARE LOAN MAY SAVE DIVIDEND EARNINGS

Argonne Credit Union members attention: If you must make a sizeable withdrawal late in May, you may want to consider a short term share loan rather than losing your dividend earnings for the month. Effective April 25, the credit union's policy of allowing share withdrawal during the last five days of the dividend period without affecting the dividend for that quarter, was rescinded. Members can arrange for share loans any day before May 27 -- then pay daily interest only until June 1 when the loan can be repaid by a transfer from shares. Share loan interest rate is 8.25 percent annual percentage rate, or 11.3 cents per \$100 for five days. Dividend earnings for a month on \$100 are about 50 cents.

* * * * *

COOP PLAY GROUP MEETING

There will be an organizational meeting for any parent interested in participating in a cooperative summer play group for children 18 months to 5 years. The meeting will be held Thursday, May 19, at 7:30 p.m., in the Comitium, CL-2. Contact Martha Smith, 840-4899.

* * * * *