

FERMILAB NEWS

 Fermi National Accelerator Laboratory

Operated by Universities Research Association Inc.
Under Contract with the United States Department of Energy

Vol. 3, No. 41

October 9, 1980

DARWINIAN ANIMALSCAPE SPILLS OVER INTO MODERN MACHINESCAPE

Dr. Daniel J. Boorstin, the 12th Librarian of Congress, decided to finally call his talk "The Tyranny of Darwin."

But in speaking to a near capacity audience at Fermilab, he said his talk also could be titled "The Tyranny of Darwinian Ideas" or "The Power of Vested Ideas." The point he wanted to make was that cultures are usually dominated by assumptions inherited from another age. And the tyranny of our present culture began in 1859 with the publication of Darwin's "Origin of the Species."

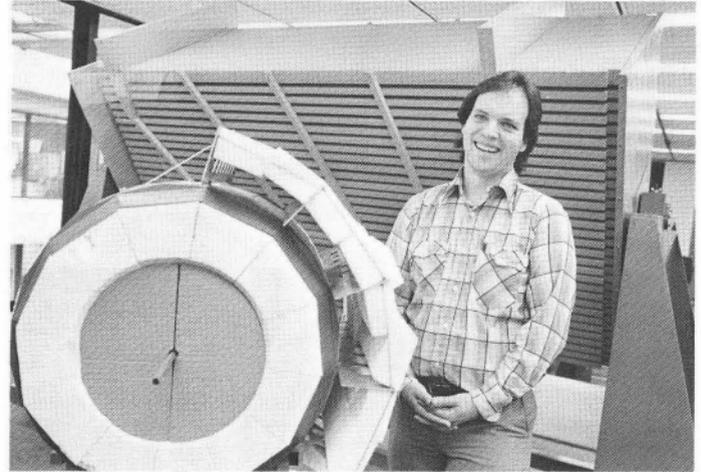
Darwinian ideas have seeped so deeply into the interstices that people are not even aware of them, he said. They take them for granted. He reminded his audience that at the time the classic volume appeared and well into this century, America was a biology-dominated, agriculturally-oriented, rural living society. However, this is no longer true. "We have moved from the landscape to the machinescape," he said.

And the consequences of carrying along Darwinian thinking into the machine age include confusion, misleading results and an inability to understand what is happening, Boorstin said. The end result is that society, so hampered by Darwinian "fallacies", cannot achieve its full potential, the speaker continued.

Essentially, Darwinian concepts cannot be applied to the machine age, he stated. This is a new world of machine genetics governed by new rules that have no resemblance to the rules of the old Darwinian world, Boorstin said.

Frank Cole, who introduced the speaker, said this was the final lecture in the 1979-80 series. He also announced that the Illinois Humanities Council has renewed its grant to Fermilab for a 1980-81 season.

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Richard Kadel beside model of colliding detector. Behind him is a full-scale wood model of one of the detector's 48 radial calorimeters.

KADEL NEW WILSON FELLOW

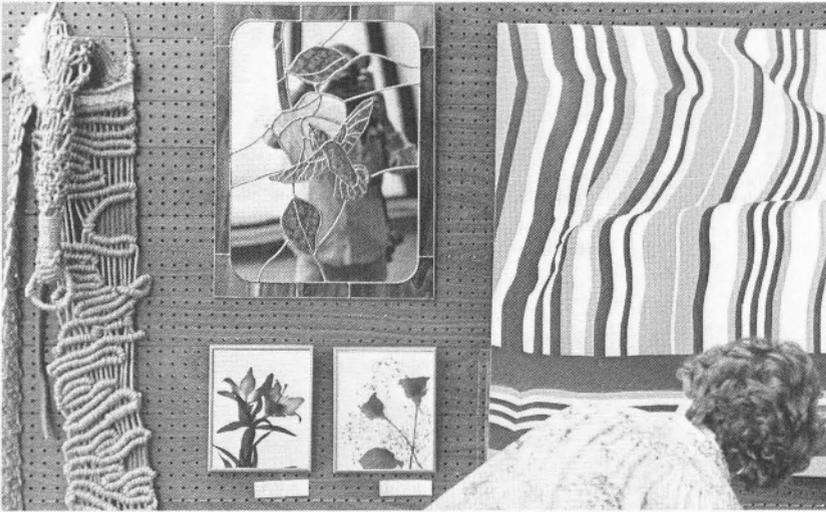
Richard W. Kadel is the newest Wilson Fellow.

He came here from Hamburg, West Germany, where he had spent three years working with the Mark J collaboration. That group conducted experiments on the positron-electron colliding beam machine called PETRA. These experiments discovered the three-jet evidence for gluons that was reported at the Symposium on Photons and Leptons held at Fermilab Aug. 23-29, 1979.

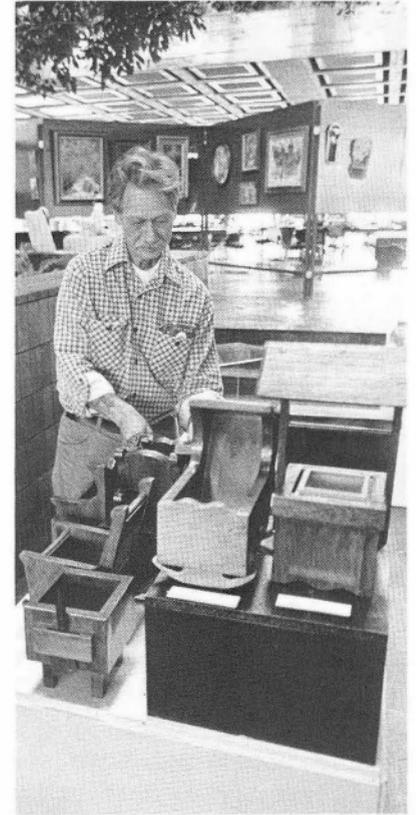
Kadel earned his Ph.D. in high energy physics at Princeton University in 1977. His advisor there was Val L. Fitch, who is a collaborator on experiments 302 and 567 here. Kadel also was awarded his master's degree in physics there two years earlier. Yale University graduated him magna cum laude.

His first assignment here is with the Colliding Detector Facility Group, with whom he is preparing a design report for the detector. Kadel said he joined Fermilab because "that's where exciting things are going to happen."

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...Hazel Cramer...



...Charles Loomis...



...Beverly Kaden...



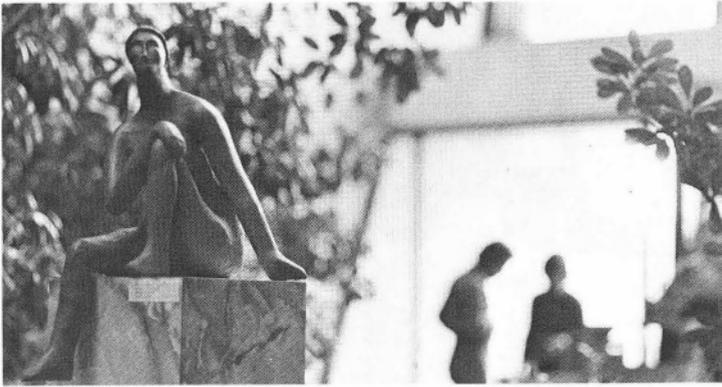
...Sandra Cox...

The exhibit was arranged by the Fine Arts Committee to coincide with Illinois Art Week, a statewide festival in recognition of the arts.

This issue of FERMINEWS salutes the many employees, users and their families whose talents in arts and crafts have made possible the remarkable show that fills Wilson Hall atrium. FERMINEWS also recognizes members of the Fermilab Fine Arts Committee and volunteers who devoted many hours to organizing the show and assembling the individual exhibits. The arts and crafts show will run through Tuesday, Oct. 14. The people shown in the photographs on these two pages are just some who volunteered their time to install the exhibit.



...Gloria Beck...



Nancy Peoples (left) and Angela Gonzales.



...Jose Poces...

NEW ART EXHIBIT

The works of eight midwest artists are being shown at the new exhibit that opened last week at Fermilab.

Located in the exhibit area, WH2S, the art will be on display until Nov. 1. The focus this time will be on contemporary works and will include collages, prints, etchings, watercolors and acrylic and oil paintings. All the works are two dimensional. The eight artists from the Chicago Artists' Coalition are Pamela Berns, Arthur Geisert, Sonia Katz, Carey Overstreet, William Page, Joseph Ramsauer, Charlotte Segal and Jackie Sullivan. They were selected by the Fermilab Exhibit Committee.

Sandra Cox, consultant to the committee, described the exhibit as a "fascinating display of current work." She further said, "We wanted to have art that was up-to-date to counterbalance some of the other exhibits we have shown. The committee likes to have a wide variety of subjects for their exhibits."

In addition to Cox, others who helped coordinate and put up the exhibit include Nancy Peoples, Jose Poces, Angela Gonzales and Carol Denby, all members of the Fermilab Exhibit Committee. "The eight artists were selected to show together because something in each person's art work was suggestive of landscapes," explained Cox.

Fermilab employees, users and members of the surrounding communities met the artists at a reception the evening of Oct. 1 in the exhibit area. The artists talked about their works and the factors that compelled them to choose their styles and subjects.

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arts
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...Nancy Peoples...

MORE RELOCATION INFORMATION

Fabrication and Procurement Office has moved from WH4NW to WH5NW. The phone and mail station numbers remain the same.

The Supply Office from WH6W to WH4NW, with the same phone and mail station numbers.

Support Services Office and Property Office from WH6W to WH5W, with a new mail station number of 226.

Internal Audit from WH6W to WH2W, with the same numbers.

Architectural Services from WH5W to WH5E, same numbers.

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NEXT COLLOQUIUM SPEAKER

Dr. Kip Thorn of the California Institute of Technology will give the Physics Colloquium Oct. 15.

His talk will begin at 4 p.m. in Wilson Hall auditorium. The title is "Quantum Non-demolition Measurements or How to Circumvent the Uncertainty Principle in Gravity Wave Detection." In order to detect gravity waves, scientists monitor the motion of a one-ton mechanical oscillator with a precision of 10^{-19} centimeter. This is comparable to the half width of the ground state wave function of the oscillator. It thus behaves quantum mechanically despite its enormous size and mass. Successfully monitoring its oscillations requires new techniques in quantum electronics.

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WILSON FELLOWS COMMITTEE MEMBERS

Tom Nash is the new chairman of the present Wilson Fellows Committee. Other new committee members include Peter Limon, co-chairman, Tom Kirk, Peter Koehler, Fred Mills, Drasko Jovanovic and Lee Teng.

The outgoing committee members included Chuck Ankenbrandt, chairman, Bill Bardeen, Chuck Brown, Russ Huson, John Peoples, Alvin Tollestrup, Ernie Malamud, Brad Cox and Limon.

The committee is soliciting nominations and applications for Wilson fellowship awards. These should be addressed to Dr. Thomas Nash, chairman, Wilson Fellows Committee, Fermilab.

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Energy Conservation Employee Awareness Committee inaugurates Energy Awareness month—October—with an exhibition in Wilson Hall atrium. Penny Horak, committee member, attaches an energy conservation pin to the collar of Leon Lederman, Fermilab director. From the left are Andy Mravca, area manager of the Batavia Area Office of the DOE; Hank Hinterberger, committee chairman; and Chuck Anderson, John Paulk and Harlan Dick, all committee members. Members not shown are Bill Riches, Marv Warner, Norman Gelfand. Carmen Valdes (not shown) was responsible for the art work.

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CHEZ LEON

Menus for next week are:

Tuesday, October 14, 7 p.m. - \$8.00:

Fresh mushroom soup en croute; hearts of iceberg lettuce w/beefsteak tomato slices; surf 'n turf; baked potato; sherbet cooler.

Wednesday, October 15, 12:30 p.m. - \$4.50:

Featured item: grapefruit kirsch; sprout salad; veal piccata; fettucine verde alla-alfredo; asparagus w/lemon sauce; zabaglione. Alternate entrees: trout (rainbow) amandine, sauteed to order; beef tenderloin steak, mushroom sauce; sauteed scampi, Fermi sauce piquante; New York strip steak, natural beef juices.

Thursday, October 16, 7 p.m. - \$8.00:

"All American Dinner" - shrimp cocktail; mixed salad greens, hot Fermi popovers; strip steak to order; baked potato; broiled tomatoes; hot fudge sundae.

For reservations call Ext. 3646.

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