

## Helen Edwards Receives E.O. Lawrence Award

Helen Edwards, Deputy Head of Fermilab's Accelerator Division and "[a leader] in the development, construction, commissioning, and initial operation of the TEVATRON," has been awarded one of six prestigious 1986 Ernest Orlando Lawrence Memorial Awards by Secretary of Energy John S. Herrington. The awards are given by the Department of Energy to "United States citizens who are relatively early in their careers, and who have made recent meritorious contributions to the development, use, or control of atomic energy." Along with her citation, Edwards will be awarded a medal and a \$10,000 prize.



*Helen Edwards*

In announcing the awards, Secretary Herrington said, "I am proud to honor these outstanding scientists and engineers for their dedication, effort, and contributions to science and the nation."

In 1985, Edwards was one of the first recipients of the Achievements in Accelerator Physics and Technology prize awarded by the US Particle Accelerators School.

Since joining Fermilab in 1970, Helen has held various accelerator technical and administrative positions. She led the effort which brought the Fermilab 8-GeV booster into operation, and was instrumental in successfully commissioning the Lab's 400-GeV accelerator before becoming involved in the TEVATRON project

The E. O. Lawrence Award was inaugurated in December 1959 to honor the memory of Dr. Ernest Orlando Lawrence, who invented the cyclotron and established the two major laboratories at Berkeley and Livermore, California, that now bear his name.

Other Lawrence Award recipients for 1986 are James J. Duderstadt, University of Michigan; Joe W. Gray, Lawrence Livermore National Laboratory; C. Bradley Moore, University of California, Berkeley; Gustavus J. Simmons, Sandia National Laboratories; and James L. Smith, Los Alamos National Laboratory.

## R. Dixon to Planning Office

Roger Dixon has been appointed Head of the Program Planning Office at Fermilab, replacing Taiji Yamanouchi, who has served as a member of Program Planning since 1976, as Head of that office since 1980, and who recently joined the Collider Detector at Fermilab.

Roger joined Fermilab in 1977. Since then he has been Head of the Switchyard Group, Deputy Head of TeV II, Head of the Experimental Areas Department, and Deputy Head of the Fermilab Research Division.

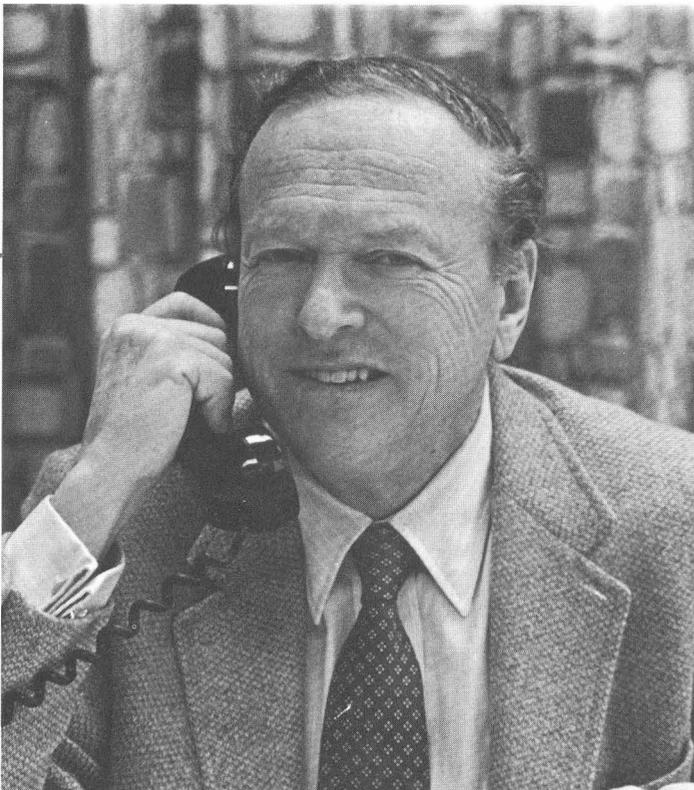
Roger's associates in Program Planning include Roy Rubinstein and Jackie Coleman, as well as Anne Burwell and Jud Parker who maintain extensive databases associated with Fermilab's experimental program. The Users Office, run by Phyllis Hale with the assistance of Joy Perington, is also part of Program Planning.

cont'd on pg. 3

### **FermiNews Delivery Date Change**

Beginning with the August 8th issue, *FermiNews* will be delivered on the Friday morning mail run, rather than the current Thursday delivery. This change is made in the interest of uniform site-wide delivery, and has no effect on article and ad deadlines.

# Thomas Gold to Present Radical Theory on Oil Geology



Thomas Gold

The distinguished astronomer Thomas Gold, long a scientific maverick, is attempting to overturn the ground rules of oil geology. He argues that most oil and natural gas are not fossil fuels at all, but rather the products of hydrocarbons incorporated into the earth as it was forming four-and-a-half billion years ago. If he is right, there are vast reservoirs of natural gas buried deeper than geologists have thought to look, and the global energy crisis may never come to pass.

Professor Gold will present his theory and discuss its prospects and consequences on Friday evening, August 15, 1986, at 8:00 p.m. in Ramsey Auditorium. His lecture is titled "A New Theory of the Origin of Oil and Gas: Are Vast Supplies Still to be Discovered?" Professor Gold's presentation will include an explanation of a drilling project now underway at the Siljan Ring in Sweden, an experiment which is crucial to his fascinating theory.

Professor Gold is John L. Wetherill Professor of Astronomy at Cornell University. He was the founder and for 20 years the director of the Cornell Center for Radiophysics and Space Research. His research has ranged across many fields of science and has often embroiled him in

controversy. Professor Gold is perhaps best known for research in cosmology (the theory of the steady-state Universe), for his explanation - now generally accepted - of the nature of pulsars as rotating neutron stars, and for many aspects of solar system research. Among them was the correct prediction that a fine rock powder would be the principle material that the astronauts would encounter on the surface of the moon.

Admission to Thomas Gold's lecture is \$2.00, \$1.00 for senior citizens, and tickets are available at the Information Desk in the Atrium of Wilson Hall. For information or phone reservations, call ext. 3353 weekdays between 10:00 a.m. and noon, or 1:00 p.m. to 4:00 p.m. Phone reservations are held for only five days awaiting payment.

- Dan Kaplan

## Annual Blood Drive Needs You

Donating blood is a service that many Fermilab employees have shared unselfishly throughout the years. For those who have received the donated blood, it has meant a new chance at life.

Ninety-five per cent of us will use blood or a blood product by age 65, while only eight per cent of us donate. The Aurora Area Blood Bank *must* collect between 200-250 pints of blood daily in order to meet the needs of patients in 25 northern Illinois hospitals.

Already this summer, serious shortages have occurred due to the annual problem of vacation-related accidents, and a decrease in the number of donors. Blood donations of all types are *urgently* needed to prevent critical shortages.

In cooperation with the Aurora Area Blood Bank, Fermilab is sponsoring its annual Blood Drive on Tuesday, July 29, from 9:00 a.m. until 2:00 p.m., in the Wilson Hall West conference room. Taxi service is available to those working in the experimental areas or the Village. The entire donor process, including a mini-physical, donation, and 10 minutes at the refreshment table, takes a total of only 30 minutes.

If you have questions, or need further information, please contact the Fermilab Medical Office at ext. 3232.

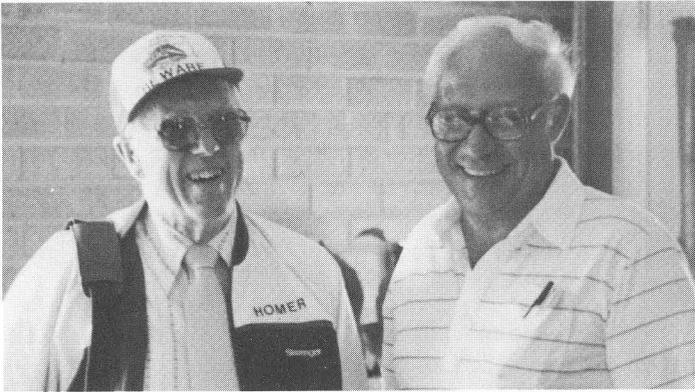


## "Homer Clover Was Here"

On the event of his retirement from Fermilab, Homer Clover did some reminiscing for *FermiNews*:

"On September 2, 1969, I arrived at the Lab to work for the late Will Hanson in the Booster Group as a designer. On May 18, 1970, I was reclassified to Senior Design Draftsman. On September 1, 1970, I was transferred to the Experimental Facilities to work under Wayne Nestander.

"On August 1, 1971, I was transferred to the Neutrino Section. This called for a move from the Village to port-a-kamps by the white barns on the Neutrino Beamline. Having a part in beamlines development was quite an experience: having a cook-out once a week, using a porta-san through the cold of winter.



*Homer Clover and Wayne Nestander at Homer's retirement party. (Photo: Kevin Clover)*

"Then came the time for beneficial occupancy of the High Rise, and who was chosen? You guessed it.

"The Neutrino Group vacated the port-a-kamps for the second floor, west. It wasn't easy, but Fred Moore made us as comfortable as he could. Cement floors, dust, construction still going on at the 10th-floor level. One consolation was that DUSAF was with us on the east side.

"The next move was to the 12th floor, east. Quite a bit better, as the floors were finished and we had new furniture.

"The next move was to the fifth floor, east on December 1, 1981, and to a new group called TEVATRON Construction. We saw a lot of activity take place what with all the new TEVATRON-related construction. A very interesting time.

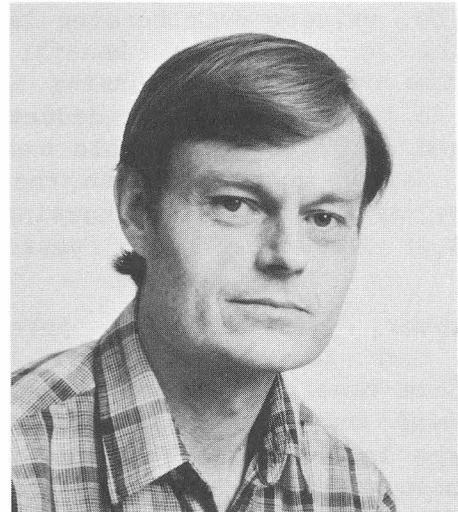
"Now, of course, our name has changed again to the Civil Construction Group. In

looking back, there are a lot of happy and memorable times. Seems to me someone should start class reunions for old times' sake.

"The wife and I have several things in mind for the future. First of all, getting our youngest daughter through high school. We will be around another two years for that. Then we head south, the Lord only knows just where; North Carolina, Tennessee, New Mexico to name a few possibilities. We are knocking on doors looking to see what will open up."

Wayne Nestander, Head of Construction Engineering Services, said, "Homer has been a very productive designer and illustrator for many Fermilab departments during the past 17 years. One finds dozens of drawings, graphs and illustrations in Fermilab publications that contain a very tiny "HC" and small oval that denote "Homer was here". We will all miss his pleasant and cheerful outlook and we bid him well on his future endeavors in his retirement."

...*"Dixon"* cont'd from pg. 1



*Roger Dixon*

The Program Planning Office, an element of the Directorate, handles proposals for Fermilab experiments from time of submission through Physics Advisory Committee (PAC) review. Once an experiment is approved, Program Planning oversees scheduling details for each experiment, including the amount and type (fixed target or colliding beams) of beam time during each run. In addition, Program Planning compiles and produces the yearly Fermilab Research Program Workbook, an exhaustive record of all Fermilab experiments, proposed or running. ❖

# Benefits Notes . . .

## Long Term Disability Plan Improvement

Effective August 1, 1986, the maximum monthly LTD benefit will increase from \$2000 to \$5500. If you become totally disabled on or after August 1, 1986, your monthly disability benefit would be 60% of your basic earnings to a \$5500 monthly maximum. Under the old benefit, if you earned \$4000 per month your monthly disability benefit would have been \$2000; under the new benefit your monthly disability benefit will be \$2400.

Details of the LTD change were mailed to you on June 30, 1986. Additional information is contained in your Pension and Group Insurance Booklet. If you have questions regarding the plan, please call the Benefits Office at extensions 3395 or 4361.

## Benefits Questions

*Q: Is private duty nursing covered under Connecticut General's Home Health Care benefit?*

**A:** No, private duty nursing is covered under the *major medical* benefit of the plan. The private duty nursing charge is subject to the major medical deductible and reimbursed at 80% of reasonable and customary. A doctor must establish the medical necessity of private duty nursing before Connecticut General will approve the charge.

However, part-time or intermittent nursing care is covered under the Home Health Care benefit. Forty visits per year are allowed and covered in full, provided the charge is reasonable and customary. A doctor must establish the medical necessity of Home Health Care.

*Q: If you switch back to Connecticut General from an HMO (and were on Connecticut General previously), does your lifetime maximum start over or continue?*

**A:** Your lifetime maximum would start over again. In addition, the deductible would start over again.

If you have questions about your benefits, please feel free to submit your questions to the Employee Benefits Office, M.S. #124, and we will try to answer them in *FermiNews*.

On Friday, July 25, and Saturday, July 26, 1986, the Fermilab International Film Society will present a Science Fiction Film Festival in Ramsey Auditorium.

*The Terminator* will be shown at 8:00 p.m. on Friday, July 25, followed at 10:00 p.m. by *When Worlds Collide*. On Saturday, July 26, *Star Wars* will be shown at 8:00 p.m. Capping off the festival at 10:00 p.m. will be *Things to Come*.

Tickets are \$2 for adults; children 12. and under are admitted for 50¢. Tickets are available at the door.

## Guided Tours of Fermilab Offered

Fermilab is offering free guided tours on August 3, 17, and 31. The August 17 tour will include a visit to the Prairie Restoration Project. The one-hour tours will begin promptly at 3:00 p.m., starting from the Wilson Hall Atrium, and will include a short, general orientation and an escorted walk through the exhibit and observation areas of Wilson Hall. A Fermilab physicist will be available to answer questions. Reservations for the tours are not necessary.

For more details call the Public Information Office, ext. 3351.

## Trever Update . . .



Fermilab

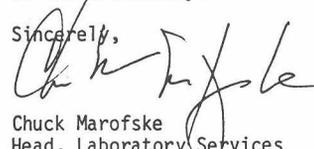
July 11, 1986

Trever Jeffries  
Pawpaw, Illinois 61353

Dear Trever:

After retirement, employees sometimes lose track of things at Fermilab that were once a significant part of their life. We know you will be missed by all of your old friends at Fermilab so we invite you to visit us whenever you are in town. Your contribution to the Laboratory was very important, and we feel you are, and always will be, remembered as an important part of the Laboratory.

Sincerely,

  
Chuck Marofske  
Head, Laboratory Services

---

*Editor: R. Fenner; Assoc. editor: S. Winchester  
Photography: Fermilab Photo Unit*

---

Fermilab is operated by Universities Research Association, Inc. under contract with the U. S. Department of Energy. *FermiNews* is published by the Publications Office, P. O. Box 500, Batavia, IL 60510, phone (312) 840-3278.