

October 18, 1984

FERMI NATIONAL ACCELERATOR LABORATORY

## CHINESE-AMERICAN COLLABORATION GROWS

# FermiNews



← IHEP physicists and collaborators with their detector in the Meson Bottom beam. Standing (left to right) are Mao Chengsheng and Tai Yongsheng; IHEP; Seog Oh, Don Goloskie, and John Harton, MIT; kneeling are Thornton Murphy, Fermilab; Xu Shaowang, IHEP; and Mark Mars, MIT.

Shen Chenghang (right) of Shandong University shows E-705 to Wu Yingrong of IHEP. →

by Thornton Murphy

In his Nobel Prize acceptance speech, Dr. Sam Ting said, "I hope that awarding the Nobel Prize to me will awaken the interest of students from the developing nations so that they will realize the importance of experimental work." Evidence of such an awakening is certainly seen at Fermilab, where Chinese participation in experiments is on the rise.

The first participants to arrive were He Mao and Zhang Naijian from Shandong University, Peoples Republic of China, in 1980. They worked for two years on the muon detector for E-537, a dimuon experiment in the High Intensity Laboratory, before returning to China. But the collaboration continues. Shen Chenghang (see photo) has been working on E-705, a continuation of E-537 to study charmonium and direct photons, for two years and will soon be joined by two graduate students. The Shandong group will soon be in a good position to collaborate on colliding beams experiments at the accelerator under construction in Beijing.



During the same period, a collaboration was formed in 1981 between a group at MIT and a group at the Inst. for High Energy Physics (IHEP) in Beijing to build the muon detector for E-636, a tau-neutrino search in Lab F. The design was the result of a joint effort, materials were supplied by MIT, and IHEP machined, assembled, and tested the proportional tube counters. MIT scientists made trips to Beijing to discuss production problems and test procedures.

(cont'd. on pg. 3)

# PARTNERSHIP FOR ENERGY EFFICIENT FUTURE



*Bicyclists Gerry Tool and Jim Zagel demonstrate proper bicycling techniques proceeding through the Road A and Pine Street intersection. Gerry is signaling from the proper position to make a left-hand turn while Jim is proceeding straight through the intersection. The car behind Jim is in position to make a right-hand turn onto Road D.*

## Energy Awareness Week Oct. 21-28

The Energy Saver Project has earned Fermilab the prestigious Bald Eagle Award for outstanding accomplishment in energy conservation. The award will be presented during the Annual Energy Award Night ceremonies at Argonne National Laboratory, on October 25. Dr. M. Hesse Dolan, DOE Assistant Secretary, will present the keynote address. Dinner reservations may be obtained by calling Karl Klima at 972-2284.

The Award Night is the highlight of the celebration for American Energy Awareness Week, October 21-28. The theme of the event is "Partnership for an Energy Efficient Future." Conservation in the home. Energy conservation at work. Conservation behind the wheel. Bicycling as a means of conservation. We've all heard about energy conservation until we think we know everything about it. Yet every day we learn a little more and conserve a little more. And that's the key.

Another event of Energy Awareness Week is the Fall Home and Energy Show at Arlington Park Exposition Hall, October 18-21. Discount tickets are available from Bill Riches, ext. 3779.

## Bicycle Committee Promotes Safety

Have you ever had a car "whiz" by within inches of your bike? Have you had a bicycle seemingly "block" your lane? If either answer is yes, read this guide to a peaceful co-existence.

More and more employees are riding to and from work; Chuck Mangene, a daily bicycling commuter from Batavia, claims he has no choice, his car is up on blocks, but he quickly adds, "I don't know if I would drive in even if the old rustbucket were running."

The Laboratory has made a serious effort to encourage this trend and improve bicycling facilities; however, not all efforts have been received enthusiastically by the Laboratory's cycling community.

The newly formed Fermilab Bicycle Committee, headed by Jim Zagel, will make recommendations to Laboratory management concerning standards, receive and consider suggestions, promote bicycle safety and awareness, and in the next couple of weeks will conduct a Bicycle Use Survey.

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(cont'd. from pg. 2)

Consider these excerpts from the **Illinois Rules of the Road**:

- Traffic laws are necessary to provide for the orderly movement of vehicle and pedestrian traffic, and for the prevention of accidents. They apply to everyone, including motor vehicle operators, pedestrians, bicyclists... Let's all share the road, with care.

- Most rear-end collisions are caused by following too closely. You must consider the speed of traffic and condition of the highway, and allow yourself enough following distance to stop safely if necessary.

- As an operator of a bicycle, the cyclist is expected to obey all traffic laws and regulations on the streets, roads, and highways of the State...**As a motorist you should realize that the bicyclist has the same rights and responsibilities as you.** Mutual respect for one another will aid in smooth traffic flow...

It has been shown in studies that a cyclist following the accepted vehicular style riding techniques, as described in the **Rules of the Road**, while on the highways will have a significantly lower accident rate.

The typical bicycle commuter can achieve speeds on the order of 15 to 18 miles per hour on a good, flat road for extended periods which makes a commute of 10 to 15 miles a practicality for many people. Just as you have not learned how to effectively operate your motorized vehicle by reading a short **Ferminews** article, you cannot hope to learn all there is to know about effective cycling techniques. As a cyclist, apply what you know about driving your motor vehicle to your riding techniques--things such as which lane to be in for turning situations or proceeding straight through an intersection. Don't weave in traffic, signal for turns, and move into the proper lane for travel only when it is safe to do so, and by all means--obey traffic control signals. You cannot expect the rights of a vehicle operator to be extended to you unless you accept the responsibilities as well.

As a motorist, when you approach a bicycle, approach as you would any other slow-moving vehicle on the road. Allow a sufficient interval and pass only when it is safe to do so. Remember, on most roads in the State of Illinois there is no bike path.

A series of educational activities has been planned by the Bicycle Committee. These activities are intended to build a bridge of information for vehicle operators and bicyclists. With the knowledge of each other's viewpoint, bicyclists at Fermilab can enjoy a safe bicycling experience.

### Safety Film for Bicyclists and Motorists

An Effective Cycling Movie, "Bicycling Safety on the Road," will be presented on Tuesday and Thursday, on October 23 and 25, at noon in Curia II. This movie which is part of a series of bicycle awareness programs is designed for both bicyclists and motorists.

### CHINESE HERE ON 2 EXPERIMENTS

(cont'd. from pg. 1)

In February, 1984, three IHEP physicists arrived at Fermilab, accompanied by the first 48 modules. These modules were assembled into an eight-plane array, interleaved with steel, and successfully tested in the Meson Bottom beam last spring. Another 157 modules have since arrived and are being assembled into the full-scale detector in Lab. F. Three more scientists will arrive from Beijing in November.

This is the first particle physics detector which has been built in China and installed at a Western accelerator.

The Chinese live in Dorm 6 in the Village, which will soon be filled to capacity with nine visitors from China, up from only one last January. The kitchen-dining room has frequently been the scene of delicious Northern Chinese banquets given for friends. And when they are not working or preparing gourmet meals, the Chinese learn English with the help of American friends.

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# FIRST FERMI ON-CALL COORDINATOR RETIRES

When Mildred Meyer Zier came to the National Accelerator Laboratory after resigning as director of Marycrest Business College in Joliet in 1967, the Personnel Office consisted of two employees, Chuck Marofske and Ralph Wagner. Millie (as her friends call her) says, "There was nothing." And on the eleventh floor of the Oak Brook office, before the Personnel Office moved to the first floor, Millie helped set up medical files, records, and benefits. Now, 17 years and many projects later, Mildred is taking early retirement.

Millie started at Fermilab on December 26, 1967. Although she was hired as a secretary, she advanced to the level of Personnel Administrator, a position she held until her retirement last month. Many of the early clerical employees may recall Millie interviewing them, but Millie likes to be remembered best for starting the On-Call Program, employing approximately 80 people today. Elaine Moore, Theoretical Physics, says, "I will never forget you because you kept pulling my resume and routing it until eventually I got a job here." This was typical of Millie's concern for her job.

More recently Millie worked with the personnel data base on the IBM System 2000, in addition to spending time with compensation surveys, service awards, and the organization chart.

Friends who know Millie know that she really isn't going to "retire," but plans on expanding her already full career to start her own office service, a logical outcome for the skills she sharpened while working at Fermilab. Millie is fast to acknowledge the help of many friends who have encouraged her in her new venture, and now we wish her the best of luck.

R.D.

## Octoberfest Tomorrow in Barn

NALREC presents "Octoberfest" tomorrow at the Kuhn Barn from 5:15 to 10 p.m. Music will be provided by the "New Issue" group from 6 to 10 p.m. Hot dogs, brats, sauerkraut, and refreshments will be served. Call Glenn Lee, ext. 4448, or Jesse Guerra, ext. 4305.



*Mildred Zier (right) poses with Liz Duty, Fermilab's first On-Call employee.*

## FERMILAB FEATURES FITNESS

### Aerobics . . .

Shape up after work with coed fit-aerobics in the Fermilab gym every Tuesday and Thursday for eight weeks from 5:30 p.m. to 6:30 p.m. beginning now and ending November 20. The advance payment fee is \$20; for further information, call Loretta McMath, ext. 4696 or Ed Bonner, ext. 4761.

### Breakdancing . . .

Anyone interested in joining the Fermilab breakdancing club should contact Drasko Jovanovic or Frank Cole at M.S. 107.

## *Proclamation*

WHEREAS, Fermilab has been a leader in the development of innovative methods of energy conservation, particularly in the use of superconductivity to reduce the use of electrical energy: and

WHEREAS, the wise use of energy and energy producing resources are the foundations of future economic prosperity for our society: and

WHEREAS, while a concensus regarding proper use is not easily reached, all involved agree that using less energy, or practicing energy conservation, is most desirable and beneficial: and

WHEREAS, to ameliorate the burden of rapidly rising costs of energy, institutions, government, business and individual citizens alike must cooperate to achieve meaningful savings in both energy use and dollars: and

WHEREAS, cooperative efforts such as these are beginning to have an impact on our energy-use habits and to demonstrate reduced energy consumption.

THEREFORE, I Leon M. Lederman, Director of Fermilab, proclaim October, 1984, as ENERGY CONSERVATION MONTH at Fermilab, with special emphasis on October 21-28, 1984, which I proclaim FERMILAB ENERGY AWARENESS WEEK, in conjunction with the national observance, because it is important for all employees to continue to be aware of the necessity of conserving energy for our mutual benefit.

*In Witness Whereof, I have hereunto set my hand Done  
at the Fermi National Accelerator Laboratory this  
Twenty-Eighth day of September, in the Year of Our  
Lord One Thousand Nine Hundred and Eighty-Four.*

A handwritten signature in dark ink, reading "Leon M. Lederman". The signature is written in a cursive, flowing style with a large initial "L".

*Director*