

FERMILAB NEWS

 Fermi National Accelerator Laboratory

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FERMILAB CENTER FOR 1981 ACCELERATOR SUMMER SCHOOL

Fermilab will be the home base for the 1981 Summer School on High Energy Particle Accelerators July 13-24.

More than 150 scientists from around the world are expected to participate in the summer school, the first of its kind ever held in this country. Mel Month of the Department of Energy and Russ Huson of Fermilab are the co-chairmen of the Organizing Committee. Carolyn Vanecek is serving as coordinator.

The lecturers and seminar speakers are scientists with national and international reputations. The summer school is, in part a response to recommendations made by a subpanel of the High Energy Physics Advisory Panel that recently examined the state of particle-accelerator research and development in this country and concluded that there was an increasing need for scientists and students in high energy physics to work in the area of particle accelerators. It is the main purpose of the school to attract such scientists and students and to enhance their education in accelerator physics.

Overall, the participants will spend their morning at Pheasant Run listening to lectures. These lectures are limited to the registrants. However, in the afternoons, the scene shifts to the Wilson Hall auditorium for a series of seminars that may be attended by anyone interested in the variety of topics which will be discussed. They will be listed in "NALCAL" which is circulated through-out the Laboratory.

The school will consist of formal lectures in which accelerator concepts will be introduced at a basic level and further developed to include state-of-the-art material. The material for the lectures covers a broad selection of topics, and in particular includes the basic principles of laser and collective field accelerators. These are two of the

potentially valuable ideas that would permit physicists to reach ever higher energies in shorter lengths and thereby allow high energy physics research to enter the beckoning regimes of particle interactions yet unexplored. The school also is offering a seminar series on the history and future potential of high energy physics with particle accelerators.

Organizing committee members sought to achieve a number of goals with this summer school. First, the school will provide a source of current knowledge on particle accelerators. Second, the classes should help to build up and disseminate particle accelerator expertise worldwide. Third, the school may stimulate the development of accelerator education in university high energy physics programs across the nation by encouraging the participation of potential teachers and by providing an up-to-date text in the form of the school's proceedings. Finally, the school is expected to help foster an interaction between particle physicists and accelerator physicists which could become an important factor in translating gifted ideas into reality.

The lecturers include scientists E. Courant and C. Pellegrini, both of Brookhaven National Laboratory; A. Dragt, University of Maryland, R. Pantell, Stanford University; A. Sessler, Lawrence Berkeley Laboratory; A. Tollestrup, Fermilab; and P. Wilson, Stanford Linear Accelerator Center.

Seventeen scientists will speak at the seminars. Among them are J. D. Bjorken, W. Kells, L. Lederman, P. McIntyre, F. Mills, J. Schonfeld and R. Wilson, all of Fermilab. Wilson also is associated with Columbia University and McIntyre with Texas A & M.

BICYCLE SAFETY TIPS

The number 15 can make your bicycle riding more enjoyable and safer. Here are 15 safety tips the Fermilab Safety Section and the Fermilab Bicycle Committee feel you should know about.

1. Obey all traffic regulations, signals and signs.
2. Look out for pedestrians.
3. Always ride with the traffic.
4. Ride on the right hand side of the road, except when making a left turn, or going straight through an intersection with a right turn only lane.
5. When in a group, ride single file and stay together as much as possible.
6. Keep both hands on the handlebar except when signaling for a turn.
7. Use a carrier, basket or backpack for small packages, so you can obey rule 6.
8. Never carry packages that interfere with vision or steering.
9. Never hitch a ride by hanging onto a moving vehicle.
10. Never carry any more persons than the number for which the bicycle is equipped.
11. If you must ride after dark, always wear light-colored clothing, use a light, and make sure bicycle is properly equipped with reflectors.
12. Anticipate danger and keep your bike under control.
13. Avoid riding in bad weather, if possible.
14. Watch out for road hazards, such as bumps or obstructions that may cause you to stop suddenly or swerve into other lanes of traffic.
15. Carry identification with you at all times.

BICYCLE COMMITTEE CONDUCTS SURVEY

The Fermilab Bicycle Committee is conducting a survey it believes will lead to improved and safer bicycle riding to and from the Laboratory.

Copies of the survey are available at the ticket sales desk in Wilson Hall atrium and the Users Office, WH1E. They also may be obtained from Steve Gottlieb, ext. 3664, M.S 106, a member of the Bicycle Committee.

NEXT HUMAN VALUES LECTURE TO LOOK AT THE MILITARY



Sam C. Sarkesian

Sam C. Sarkesian of Loyola University in Chicago will be the next speaker at Fermilab's Science and Human Values Lecture Series.

His talk on "The Military Profession: The Battlefield and Beyond" will begin July 31 at 8 p.m. in Wilson Hall auditorium. The lecture is free, but because seating is limited, admission will be by ticket only. These may be obtained at the ticket sales desk in the atrium.

Sarkesian's appearance here is presented by Fermilab and Illinois Humanities Council. The series is intended to bring together science and the humanities in a way that shows their interrelationship and makes both more understandable to the public.

The speaker's qualifications include careers as a professional military man and a political scientist. He served for more than 20 years in the army. Columbia University awarded him a doctorate in political science. He is presently a professor of political science and the author of numerous books and articles on defense policy and the overall American political system.

Among the questions he will address are: What is the state of our national defense? What is the state of our national defenders, our military people?

The Science and Human Values Lecture Series Subcommittee of the Fermilab Auditorium Committee arranges these lectures.

The lecture will be followed by an informal reception in Wilson Hall atrium.

A TALE OF TWO BIRDS

This is a story about Jean Birkenmaier and Mary Rothengass, both technicians with the Physics Section, and two close friends of theirs.

"For the second time in a year, Fermilab has become the home for a fledgling bird," Jean said. "First, Mary took in a baby sparrow, faithfully toting it back and forth to work every day in order to keep up its frequent feeding schedule. Eventually, the bird grew large and strong enough to be released. That was happy ending number one."

Now it was Jean's turn, who suddenly found herself "playing mommy to a baby blackbird, the sole survivor of a nest that had fallen out of a tree in my back yard," she explained. "A quick call to Mary elicited the food formula she used so successfully on her bird--milk, egg yolk, yogurt and strained beef baby food. And because I was feeding the bird each hour, Fermilab once again had a commuting bird."

In just three weeks, "the little blackbird has doubled its size, and appears well on its way to becoming self-sufficient and flight-worthy. Thus, we soon anticipate happy ending number two.

"Of course, considering the accommodations of a cozy bird cage and hand-delivered cuisine, maybe this little bird won't want to leave."

Jean is being assisted in this life-preserving venture by her three children: Johnny, 8; Jodi, 5; and Julie, 3.

HAPPY ENDING NUMBER TWO

During the July 4 holiday weekend, Jean released the bird in her back yard. Gradually--ever so gradually--it acclimated itself to its new freedom, gaining strength in flying and traveling farther each day.

It was learning rapidly to fend for itself, but was still hanging close to the house, accepting a treat now and then from Jean. The young bird certainly knew her voice and would sound off whenever it heard her. Not only that, but the family dog, Lady, knows the bird's call.

But just as one adventure is ending, a new one is about to begin for Jean and her family. Lady is due to have puppies this month--they think.



Jean and friend

FAMILY PICNIC BECKONS ALL

One of Fermilab's most popular days--the NALREC family picnic--is coming July 25.

It's fun for the entire family from 11 a.m. to 6 p.m. on the grounds near the Village Barn and the swimming pool. The picnic is for all Fermilab employees, users, and Department of Energy and security personnel as well as their families. Door prizes will be awarded throughout the day.

Fifty cents will buy a hot dog, chips and cole slaw. And for those who prefer an extended diet, then soft drinks, other beverages, cotton candy, ice cones and popcorn will be available.

But that's not all. Here's what will enhance the fun: a cake walk, games, radar ball, hay rides, fun run, carnival games, all-star baseball, pony rides, teen town, a dunk tank and swimming races for children and adults. The Fermilab Barnstormers will coordinate a show that will feature model planes flown by members of the Fox Valley Aero Club and a helicopter by Lloyd Wheeler of Elgin.

Volunteers are needed to help with the picnic and to bake goods for the cake walks. If you're interested, contact Nancy Shanahan, mail station 303, ext 4659. And don't forget to call the Recreation Office, ext. 3126, if you're planning to participate in the swimming races for children and adults.

FUN RUN COMING UP AT 6

Do you enjoy directors of national laboratories and watermelon? Then plan to participate in the fun run that begins today at 6 p.m. at the Village Barn.

You'll join Leon Lederman, Fermilab director, Walter Massey, director of the Argonne National Laboratory, and members of the Fermilab and Argonne running clubs in a four-mile run from the Barn to Wilson Hall and back. The two clubs are sponsoring this run.

Afterwards, everyone can nibble away at watermelon while cooling down. Showers and lockers are available in the Barn, but runners should provide their own locks.

FILM FESTIVAL BEGINS TODAY

The Fermilab International Film Society will present a counter culture film festival that begins tonight with "Yellow Submarine".

Each movie will be shown in Wilson Hall auditorium. Admission to each film is \$2 for adults and 50 cents for children 12 and younger. However, the price for both films July 11 is \$3.

The other three films are "Catch-22", July 10, and "Easy Rider" and "Alice's Restaurant", both July 11. Each film will begin at 8 p.m., except for "Alice's", which will start at 10 p.m. "Catch-22" and "Easy Rider" are rated R.

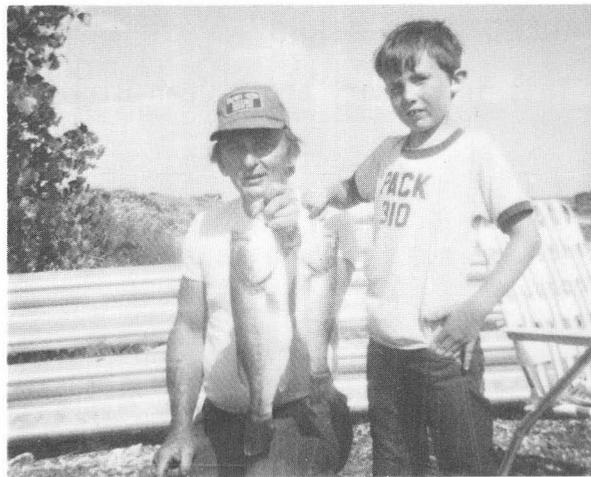
CHEZ LEON MENUS

July 10, 7 p.m.--Chilled vichysoisse, fresh Spanish salad, beef Wellington, duchess potatoes, cauliflower au gratin, strawberries Romanoff.

July 14, 12:30 p.m.--Marinated asparagus with red peppers, crepes with ham and mushroom duxelle with madeira sauce, mixed green salad, strawberry sorbet.

July 16, 7 p.m.--Seviche, marinated flank steak with red onions, ratatouille, spinach salad, peach nut meringue cake.

July 17, 7 p.m.--Teriyaki chicken appetizer, assorted salad greens with Fermi dressing, chateau briand bordelaise sauce, fettucine Alfredo, gold brick sundae.



Terry Svejda (left) with his 3.5-pound winning bass. And to show that it wasn't just big people who caught fish that day, next to him is Daniel Casebolt, 8, son of Howard Casebolt. The boy's bass weighs 1 pound.

IT'S A WINNER

It was just that kind of a day. Lazy, temperature in the 80's, partly cloudy with enough sun to warm the bones. Scattered around the Main Ring that June 27 Saturday were hundreds of people fishing, including entire families.

It was NALREC's 1981 Family Fishing Derby. And when it was over, Terry Svejda of the Accelerator Division had caught a 3.5-pound bass and had won the derby for landing the largest fish. Officially, 337 fishing enthusiasts paid the 50 cents admission fee in the hopes of catching a tasty future meal. Howard Casebolt, member of the organizing committee, estimated that about 200 bass and around several hundred blue gills were caught that day, for what he described as "a time that lots of people were enjoying."

He and other derby officials spent much of their time fishing and at the official weigh-in table. They observed that everyone was friendly and cooperative and that the derby went practically flawless.

The competition was held in the cooling ponds around the Main Ring, which were specially stocked for this event. However, no fishing is allowed there at any other time.