

October 8, 1981

FERMI NATIONAL ACCELERATOR LABORATORY

# FermiNews

## NORMAN F. RAMSEY AUDITORIUM



### Auditorium named in honor of Ramsey

Fermilab's auditorium has been named in honor of one of this country's most distinguished diplomats of high energy physics.

At a ceremony Oct. 1 in the foyer, the facility was officially named the "Norman F. Ramsey Auditorium." Higgins professor of physics at Harvard University, Ramsey served for many years as president of Universities Research Association. Leon Lederman, Fermilab's director, and Robert Wilson, the Laboratory's first director and now director emeritus, both praised Ramsey for his many outstanding contributions to Fermilab and to the high energy physics community in general.

At 4:55 p.m., Lederman pulled away a blue cloth that had covered the black walnut letters. Wood for the letters came from the same stock that had been used years ago to highlight the auditorium's decor.

Ramsey, who had stepped to the microphone, glanced at the letters behind him

for a moment, then recounted some of the more challenging experiences he had encountered as he and other leading physicists--among them Lederman and Wilson-- strove to make Fermilab a reality. Ramsey told the audience that he appreciated the honor, saying, "This is just great. I could not be pleased more." He then acknowledged the many contributions of "the people who have worked here in the past 15 years. We have all been part of a great scientific venture. Everyone has worked enthusiastically at all levels. I have optimism for this Laboratory in the years to come. We have an excellent physics program here, one that already has been recognized nationally and internationally as a great program.

"There will be many good opportunities in the future. Basic research is important to the future of this country and will thrive. I wish all of you the best success in the years to come."

## LOWENSTEIN TO SPEAK ABOUT EVOLUTION

The topic of "Controversies and Evidence in Evolution" will be addressed by Jerold Lowenstein in the next science and human values lecture Oct. 30.

It will begin at 8 p.m. in Ramsey Auditorium (Wilson Hall). Although the lecture is free and open to the public, admission will be by ticket only. These may be obtained at the information desk in the atrium of Wilson Hall.

Lowenstein, who is chairman of the Department of Nuclear Medicine and clinical professor of medicine at the University of California, San Francisco, has pioneered a technique using neutron activation to study proteins found in fossils as well as a frozen mammoth from Siberia, the Tasmanian wolf and numerous other specimens. The technique used by Lowenstein allows scientists to investigate the genetic relationships among various species. In his talk, he will review his own studies and provide a broad overview of contemporary evolution theory.

The theory of evolution is one of the most sweeping scientific syntheses of all time. Therefore, it should come as no surprise that a variety of disciplines can contribute to unraveling the story of evolution. Evolution also has been a controversial issue from its very beginning.

Several different controversies are raging now, both internal to the subject itself and external.

Lowenstein's appearance is part of the popular Science and Human Values Lecture Series sponsored by the Fermilab Auditorium Committee and the Illinois Humanities Council. This series of programs is intended to bring together science and the humanities in a way that demonstrates their interrelationships and makes both more understandable.



Jerold Lowenstein

## TALENTED STUDENTS ENROLL IN SATURDAY MORNING PHYSICS

Fermilab's popular and widely-acclaimed Saturday Morning Physics has resumed for the 1981-82 season.

More than 360 talented seniors from area high schools have enrolled. The first of three sessions, each 10 weeks long, began Oct. 3. Classes are held each Saturday morning from 9 a.m. to noon and include lectures, discussions and tours. In its second year, SMP promises to be as successful as the 1980-81 course, according to John McCook of the Director's Office.

The topics the students will study include special theory of relativity, detectors, conservation laws and symmetry principles, quantum theory, accelerators and beam technology, leptons, quarks and other elementary particles, forces of nature and their carriers, particle physics spinoffs, current problems and future prospects. A number of other topics will

be covered during this intense course.

The purpose of SMP is to give outstanding science-oriented high school seniors an in-depth look at high energy physics. The young men and women who attend the courses have been selected by their teachers and principals.

The lecturers for the course include J. Schoenfeld, T. Murphy, N. Gelfand, C. Kerns, C. Hill, L. Michelotti, R. Rubinstein, E. Malamud, B. Cox, J. Butler and F. Mills.

Serving as associate lecturers and tour leaders are H. Barton, J. Biel, M. Binkley, B. Brown, D. Carey, R. Carrigan, C. Curtis, G. Fisk, W. Fowler, D. Green, C. Hojvat, H. Johnstad, H. Jostlein, D. Jovanovic, T. Kirk, J. MacLachlan, B. Mau, J. Morfin, F. Nagy, J. Peoples, S. Pordes, R. Rice, C. Schmidt, J. Schmidt, E. Treadwell, R. Walker, A. Wehmann and J. Yoh.



## ELECTRON COOLING AWARD STORY AMENDED

Ferminews would like to add to its recent coverage of the Electron Cooling Award some important additional information.

Electron cooling, as a concept, was invented by G. Budker, then Director of the Institute of Nuclear Physics (INP) in Novosibirsk. The principle was confirmed by experimental demonstrations of cooling in that Laboratory as early as 1976. This experiment was carried out for 80 MeV protons. The scheme was also demonstrated at CERN for 50 MeV protons.

The Fermilab electron cooling pro-

ject was aided substantially by scientists from Novosibirsk who are actively collaborating with us on the entire antiproton project. Drs. I. Meshov, D. V. Pestrikov, V. V. Parkhomchuk and N. Dikansky were particularly helpful. The Fermilab-Novosibirsk collaboration also includes work on antiproton collection via an INP-built lithium lens (Ferminews, May 14, 1981) and design of elements of a system for "sweeping" the proton beam across a target to minimize destructive heating.



NALWO officers for 1981-82 are (from left) Elaine Cremaldi, first vice president; Cindy Albright, special events chairman; Joanne Biallas, president; Georgia Russell, treasurer; and Anita Cumalat, second vice president. Not shown, Mary Kay

Brown, second vice president; Pam Naber, secretary; Mizuho Mishina, Village representative; and Brenda Kirk, play school representative.

### BICYCLE COMMITTEE TO MEET

The Fermilab Bicycle Committee will meet at noon on Oct. 14 in Curia II, WH2SW. All bicyclists are invited to attend.

The committee plans to discuss its accomplishments in the past year as well as establish goals and priorities for the coming year. Anyone who would like additional information should contact Steve Gottlieb, ext. 3664, M.S. 106.

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### OCTOBERFEST IS COMING

It's that time again, when NALREC's popular Octoberfest comes on the scene. This time, it'll be held Oct. 16.

The fun will begin at 5:15 p.m. in the Village Barn and continue until 11 p.m. Prime Time, a Chicago-area based band, will provide live music for dancing, and there'll be beverages and food available.

Co-chairmen of the organizing committee are Jim Fourmont and Nancy Shanahan.

Octoberfest has been an annual favorite with Fermilab employees for its fresh creative approach each year.



Beaming with deserved pride are members of the first place team in the Fermilab Recreational Volleyball League I. Calling themselves Buffalo Chips, they are (from left) Jim Kalina, Kake "Bloomers" Chandler, Dave Schemanske, Pam

Bosch, Angie Velasquez, Sue Grumboski, Bonnie Deke, Juan Alviar, Manny Garcia, Dave Butler and Kenny "Slickleg" Parker. Not shown are Bob Lootens and Tom Warkins.



Victory smiles on them all, the Ballbusters battled their way to first place in Fermilab's Competitive Volleyball League II. They are (from left) Mike Tartaglia, Carmen Vera, Bert Yost,

Kim Chans, Mark Augustine, Louise Krafczyk, Gary Andrews and George Krafczyk. Not shown are Shirley Simon, Gary Smith and Keith Coiley.

#### NEXT COLLOQUIUM SPEAKER

George Rathjens from the Massachusetts Institute of Technology will be the Physics Colloquium speaker Oct. 14.

His talk on "Nuclear Proliferation and its Relation to Nuclear Power" will begin at 4 p.m. in Ramsey Auditorium. The talk is the second in a series of informative lectures being presented by the Arms Control and International Security Seminar Committee. Ray Brock will be Rathjens' host.

"During the late 1960's and the early 1970's, the Nuclear Proliferation Treaty was the central element in the U.S. non-proliferation policy," said Rathjens. However, there was disillusionment about its inadequacy, he added.

#### SOLID-STATE DETECTOR WORKSHOP

A workshop on solid-state detectors will be held at Fermilab Oct. 15 and 16.

The sessions on silicon detectors in high energy physics experiments will be conducted in Ramsey Auditorium. Additional information may be obtained from Jackie Coleman, ext. 3211.

A soiree in connection with the workshop will be held Oct. 15 at 8:30 p.m. in the Reading Room of the Users Center. The speakers will be T. Ludlam, Brookhaven National Laboratory, speaking about the "Future Prospects for Applications of Solid State Detectors in Particle Physics," and W. Vernon, University of California-San Diego, "Dealing with  $10^7$  Channels Per Silicon Wafer."

CLASSIFIED ADS TO BE DISTRIBUTED WITH FERMINES OCTOBER 1, 1981

FOR SALE:

CARS: 1974 Datsun. Body rusted out, will sell for parts. Make offer. Call Argonne, Ext. 5543 or 8941.

CJ5 1979 Jeep (Silver Anniversary package). 17,000 miles; prime condition; \$7000. Call Hope, Ext. 3242.

MISC.: Koehler generator, 3000 watt, 8 Hp; rebuilt engine; 110 volt, 12 volt DC electric start - \$350.

10' x 14' canvas tent, very good condition; two rooms; carrying bags, \$125.

Cycle sound housing - \$35. Cycle sound with AM/FM, 8 track, \$75.

1977 Yamaha XS750D; good condition; new tires; shaft drive, \$1500.

For all above - call Ed Dijak, Ext. 3011 or 3555 or 690-1145.

G.E. Upright freezer, 11.6' - \$250. Call R. Pucci, Ext. 3355

Nearly new steel belted radial tires; size P155-80R13 ("A" size equivalent). Call G. Davis, Ext. 3615 or 553-7644.

Styrofoam life jacket, adult-\$4; Bell "Prime" bicycle helmet, size 7-7-1/8, new-\$25; drapes, insulated, light blue w/green, gold background, 2 panels each 81"x60", pleated, \$40; Carpet, imitation Persian, 8'2" x 11'6", \$100; Carpet, imitation Persian, 10'9" x 11'8", \$30; Violin, 3/4 size, for 9-12 years, in playing condition, w/case and bow, \$75; Hanksraft vaporizer/humidifier, \$8. Call S.Gronemeyer, Ext. 3109, or page 325.

FOR RENT: Batavia, available Oct. 1; deluxe brick duplex; 2 bedrooms; 1½ baths; appliances included; central air, attached garage, fenced yard; \$370 per month; call 460-2098.

WANTED: Car pool; from Beau Bien subdivision, Lisle, between Yackley and Naperville Rds. on Ogden; Prefer non-smoker; call Sharon Ext. 4181.

Recurve bow in the 45# hunting bow class. Call J.Hackemer, Ext. 4369.

Good used Jon boat or fishing boat. Call Neil Olson, Ext. 4179.