FERMINEWS

Fermi National Accelerator Laboratory

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

Vol. 2, No. 48

December 13, 1979

RAMSEY ELECTED PRESIDENT OF URA

Dr. Norman F. Ramsey, Higgins professor of physics at Harvard University, has been elected president of Universities Research Association Inc., the corporation that operates Fermilab under contract with the Department of Energy.

...Ramsey...

Elected by the URA board acting through its executive committee, Ramsey will fill the unexpired term of the late Dr. Milton G. White, who died Oct. 16. Dr. White served as URA president since March.

White had succeeded Ramsey to the post. Ramsey became URA's president shortly after the corporation was organized in 1965. He held that position until White succeeded him. Ramsey also had served as chairman of the Advisory Panel on High Energy Physics that issued a report in 1963 known as the "Ramsey Report." It proposed the construction of a 200 GeV accelerator. That recommendation later materialized and became Fermilab.

A distinguished scientist and the immediate past president of the American Physical Society, Ramsey said, "Although I am deeply saddened by the loss of Milton White, I am greatly honored to be asked to serve as president of URA, and I accept with enthusiasm.

"Even though the effectiveness of Fermilab is limited by serious budgetary constraints, it is a great laboratory. With its present and planned future facilities, many important discoveries should be made at Fermilab in the years to come."

* * * * *

JAPANESE BEGIN COLLABORATION AT FERMILAB

Japanese scientists have begun an extensive collaboration at Fermilab and at other science centers throughout the country.

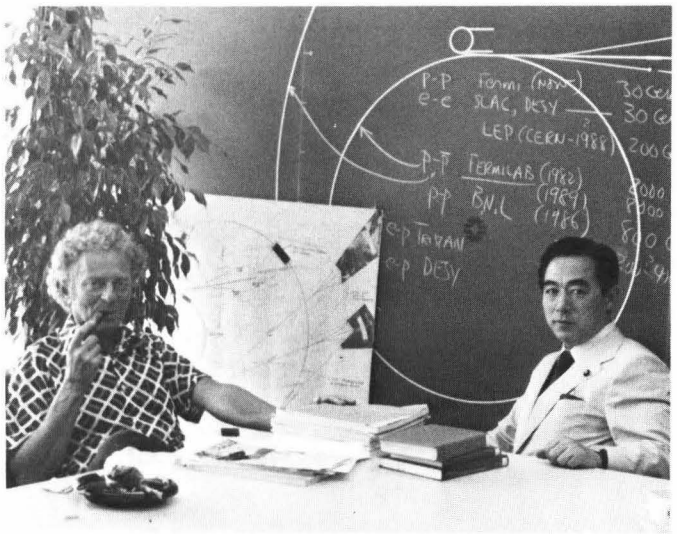
The collaboration is the result of a high energy physics research agreement between the United States and Japan. In addition to the physics project, similar collaboration between the two countries will be conducted in fusion, coal conversion, photosynthesis and geothermal energy. Besides Fermilab, the other cooperating laboratories in high energy physics are Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley Laboratory and the Stanford Linear Accelerator Center.

The physics pact will include joint research and experiments into the fundamental nature of matter and energy. Colla-

(Continued on Page 2)

...Prof. Kunitaka Kondo (second from right) visits with (L-R) Hans Jensen, Alvin V. Tollestrup and Ryuji Yamada, all with the Fermilab Colliding Detector Facility. On the table before them is a model of the colliding detector...

(Continued from Page 1)



...Testuo Kondo (right) and Dr. Leon Lederman, Fermilab director, confer about the Japanese collaboration. Kondo, a Japanese legislator, has been one of the leading supporters of the collaboration...

borators plan to use high energy particle accelerators and colliding beam devices. The funding essentially will be shared equally by the two nations.

Dr. James Leiss, associate director of the Office of Energy Research, High Energy and Nuclear Physics, DOE, and Mr. K. Shinozawa, director-general of the Bureau of Scientific and International Affairs, the Japanese Ministry of Education, Science and Culture, signed the historic agreement for their respective countries last November.

The Fermilab collaboration involves a number of research teams from Japan, explained Prof. Kunitaka Kondo, the overall spokesman for the counter-experiment group. He is a professor with the University of Tsukuba. It is located close to the National Laboratory for High Energy Physics (KEK). This group is composed of KEK, University of Tsukuba, University of Tokyo and Kyoto University. Dr. Masanori Mishina from KEK has been working here since last summer.

Mr. Nobumoto Higuchi, an official with the Japanese Ministry of Education, Science and Culture, has been at Fermilab since last July and is responsible for the business aspects of the collaboration.

When work using the 15-foot bubble chamber begins, Prof. Toshio Kitagaki of Tohoku University will head his country's team.

In my talks with Japanese administrators and legislators, I find a recurring theme that, "Japan's present technological success was based upon western fundamental research and it is high time that Japan increase its efforts in basic science and make its own contributions." Why high energy physics? The Agreement could result in Japanese contributions of about $50 million over the next 5 years to joint Japan-U.S. research carried out in the U.S. laboratories. My own guess is that HEP was selected not only because of the effectiveness of our Japanese colleagues but also because the philosophical underpinnings of HEP strike a resonant chord in the very old culture that strives to survive under the veneer of supermodern technology that exists in Japan today.

Leon Lederman

The collaboration between this country and Japan will continue from five to ten years, said Kondo. At Fermilab, the contingent from Japan will vary in size as the experiments progress, reaching a maximum of 10 to 15 scientists.

"This agreement between the two governments is in a sense unique," said Kondo. "It is one of the few times in history that two technically advanced countries have agreed to work together on a basic science." Enthusiastically, Kondo explained that the collaboration will help the Japanese build up their high energy physics discipline for their next big accelerator. He added that this collaboration will be "another step toward a worldwide collaboration."

Kondo has been in this country, off and on, for nearly five years, working with various universities and scientific institutions. With his characteristically friendly smile, he explained that the collaboration also paves the way for American scientists to work in Japan in the future.

Initially the Japanese experimenters will collaborate on Experiment 605 in the Meson Area. This experiment will study leptons and hadrons near the kinematic limits. Also, the Japanese will work on the collaborative effort for the construction of the colliding detector.

* * * * *

TALK ON ANCIENT FLUIDS AS CLUE TO PAST

"Ancient Fluids in Crystals--Clues to the Geologic Past" will be the subject of the Sigma Xi lecture Dec. 18.

The talk by Dr. Edwin W. Roedder of the Geologic Division, U.S.Geological Survey, will begin at 8 p.m. in the Central Laboratory auditorium. It is free and open to the public.

Roedder's appearance here is another in the series of scientific talks sponsored by Sigma Xi, the scientific research society of North America. The local chapter includes members from Fermilab, the Amoco Research Center and Wheaton College.

The speaker has been with the USGS for 22 years. He joined the organization after working for the Bethlehem Steel Corporation Research Department for five years. He also was a member of the University of Utah faculty for five years.

After earning his doctorate in geology from Columbia University in 1950, he has conducted research into silicate phase equilibrium, silicate liquid immiscibility and fluid inclusions in minerals. Other major investigations have been aimed at understanding the environment of ore deposition and the lunar samples. More recently, he has been studying the problems of nuclear waste storage in salt.

Roedder is a past president of the Geochemical Society.

Sigma Xi's principal aim is to encourage original investigations in pure and applied science.

* * * * *

CERTIFICATES AVAILABLE AT CREDIT UNION

The Argonne Credit Union now has available $5,000 six-month certificates that run at one percent less than treasury bills, said Cindy A. Gould, manager of the Fermilab branch of the credit union.

"The rate will change weekly because the T-bills change weekly," she said.

* * * * *

PARAMEDIC AMBULANCE SERVICE FOR FERMILAB

The Kane County Ambulance District began providing Fermilab with paramedic ambulance service Dec. 1. This service is made available through a special contractual arrangement with Kane County. Paramedic requests will be handled by the Laboratory emergency operator.

The Fermilab Fire Department ambulance staffed by Illinois certified emergency medical technicians will continue responding to all ambulance requests. On ambulance calls where the nature of the emergency indicates need, the paramedic ambulance also will immediately be dispatched.

The Fermilab ambulance crew will give initial treatment and proceed to stabilize the patient's condition until the paramedic ambulance arrives. Paramedics are authorized, under the direction of a physician, to administer certain drugs, give intravenous solutions, defibrillate the heart and transmit electrocardiograms through telemetry equipment from the ambulance. Heart attack victims are given this type of treatment by the paramedics prior to arrival at a hospital emergency room.

This new service does not change the the procedure for reporting emergencies. Persons still call 3131 from any Fermilab telephone. When a Fermilab employee calls 3131 with an ambulance request, he will be asked for certain information concerning the accident, or the condition of a patient, by the Fermilab emergency operator. This information is needed to determine if a paramedic response is desirable.

More information about this new ambulance service will be distributed through laboratory channels. Rudy Dorner is the head of emergency services and Ralph T. Kramp is coordinator of the the paramedic ambulance service.

SPECIAL NOTE

Radio station WMAQ, 670 on the AM dial, has assigned Fermilab the number 218. The station will use this number only--instead of identifying Fermilab by name--during emergency bulletins. Posters and stickers will be put up throughout the site reminding employees and users about the numerical designation.

* * * * *

BLOOD DRIVE ON DECEMBER 19

The Aurora Blood Bank will accept blood from Fermilab employees and users Dec. 19.

The drive will be held from 9 a.m. to 2:30 p.m. in the conference room in the southwest corner of the Central Laboratory's first floor. Call the Medical Department, Ext. 3232, for an appointment.

Volunteers should recognize that there are requirements they must meet before blood can be accepted, said Dorothy Poll, a registered nurse at Fermilab. For additional information, contact the Medical Department.

* * * * *

EMPLOYEES ANNUAL CHRISTMAS PARTY

The Fermilab employees annual Christmas party will be held Dec. 21.

It will run from 5:15 to 9:30 p.m. at the Village Barn. All music will be live. Homer Cunningham--known as the "Music Man"--will spin the disco music. A polka band also will play. Refreshments and Italian beef sandwiches will be available. There is no admission charge.

Sharon Koteles and Ed Justice are co-chairpersons of the organizing committee. The party is sponsored by NALREC.

* * * * *

WATCH OUT FOR THOSE NEW SIGNS

Motorists, beware. There are new parking signs in the Village, and for a good reason, too.

Signs have been installed in certain locations that limit parking to one side of the street only. These new seasonal parking regulations will make snow removal easier and safer, said Rudy Dorner, head of emergency services.

Parking is restricted to those areas that have been designated for parking and to those areas that have no posted signs. However, common sense should prevail, said Dorner. Do not park on grass or lawns, in front of delivery doors or driveways, by fire hydrants or where parking would cause inconvenience to others.

* * * * *

EMPLOYEES HELP PUBLIC LEARN ABOUT FERMILAB AND HIGH ENERGY PHYSICS

During November, Fermilab employees spoke to a variety of groups and assisted in conducting tours through the site.

Speakers included Pat Zack, who gave Zonta International a general orientation of Fermilab on Nov. 6; Dick Lundy, Physics Club of Chicago, the energy doubler-saver program Nov. 13; Joe Biel, Glenbrook High School science faculty, gluons Nov. 27; and Marvin Johnson, Sigma Xi club of Nalco Chemical Co., "Color and Charm: The Internal Structure of the Proton and other Hadrons," Nov. 28.

Assisting with tours were David Carey, Louis Taff, Barbara Bennett, Bradley Cox, George Biallas, Tim Toohig, Jack Lockwood, Ed Stitts and B. J. Holt.

* * * * *

CHRISTMAS CHORUS TO PERFORM

The Fermilab Christmas Chorus will give two concerts Dec. 14.

The 25-member chorus will sing in the Central Laboratory atrium at 11:30 a.m. and 1:15 p.m. They will be led by Arthur Roberts, Fermilab physicist. Janice Roberts, formerly with the Guest Office, will accompany on the piano.

These will be the last two concerts for the Robertses, who are leaving Fermilab this month. They have been chorus directors for many years.

* * * * *

CHILDREN'S CHRISTMAS PARTY

Three days and counting until the children's Christmas party Dec. 16.

It'll be held from 2 to 4 p.m. in the Central Laboratory cafeteria where there'll be punch and cookies and in the auditorium where at 2:30 p.m. there'll be two films: "Christmas on Grandfather's Farm" and "The Christmas Deer."

Then at 3 p.m. the big moment comes. That's when Santa arrives with a Christmas stocking for every youth age 10 and younger.

* * * * *

FERMINEWS is published weekly by the Public Information Office of the Fermi National Accelerator Laboratory — P.O. Box 500 — Batavia, Illinois 60510 — Phone: 312-840-3351.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1979—651-139/27