

NU Station To Study Cosmic Rays

The opening of the International Geophysical Year (IGY) Monday found the University as a member of the world-wide observation team gathering data on cosmic rays.

The University's station will be one of the major observation points in the United States.

Under Dr. Robert Chasson's direction, the physics department has constructed a recording station for detecting both high and low-energy components of the cosmic radiation.

Permanently located in the attic of Brace Physics Laboratory, the equipment includes seven Geiger-counter telescopes and a neutron monitor pile which will electronically record the cosmic ray activity 24 hours a day.

Dr. Chasson, chairman of the physics department, said the neutron monitor also will have an alarm device which will set into ratus whenever the cosmic ray activity is above or below normal, caused by solar flare or geomagnetic storm activity. This will provide a detailed record of the radiation, he said.

The facilities were constructed and will be maintained under a \$52,000 grant administered through the National Science Foundation.

Under the IGY program, Dr. Chasson explained, basic standard monitor instruments around the measurements of the low-energy and high-energy cosmic rays.

"This standardization of equipment will permit, for the first time, a large-scale comparison of world-wide cosmic rays."

There will be a regular world-wide monthly data exchange system, he said.

Dr. Chasson believes that the information to be gathered on the cosmic rays will prove an important probe of conditions in outer space, once the cosmic ray behavior is established with other known solar and stellar behavior. "This belief," he said, "is made possible since the actual nature

of the radiation and its behavior after it has entered the atmosphere are quite adequately understood."

Cosmic rays are produced beyond the earth's atmosphere with the sun believed to be a source of low energy rays. These rays, Dr. Chasson explained, continually bombard the earth. Most of them and, especially the ones with high energies, come from other regions of the Milky Way or other more distant groups of stars.

IGY — actually a year and a half from July 1, 1957, to Dec. 31, 1958 — will witness the world's greatest single co-ordinated quest for scientific knowledge.

Nearly 5,000 scientists will simultaneously observe many natural phenomena which are of world-wide character. They will seek answers to such questions as the cause of electrical discharges which black out radio and affect

the weather, whether the earth is growing warmer and what is the size and shape of the world.

This period was selected for IGY since it covers the approach to the maximum of the next sun-spot cycle when solar activity will be at its peak, accompanied by great electrical and magnetic disturbances in the solar system. Previous international scientific programs were conducted in 1882-83 and 1932,33.

This will be the first time that cosmic rays will be in the picture, Dr. Chasson explained, since they were barely known in 1932-33.

Besides Dr. Chasson as project director, the University's station personnel will include: Dr. Walter French Jr., as research associate; Bruch Anspaugh and Kaichi Maeda both research assistants; and David Dunkin, laboratory assistant.

Professor Unearths Music Manuscripts

A University music professor feels he has "unearthed" some exceptional manuscripts which have been neglected for the past 200 to 300 years.

Emanuel Wishnow, professor of violin and conductor of the University Symphony Orchestra, returned to Lincoln recently from a year's leave in Italy and England.

While there, he searched libraries and music collections for outstanding music for stringed instruments, "which was in great favor

in the 16th and 17th centuries but disappeared through the years."

He spent three months in Italy, visiting the Vatican, Florence, Venice, Padua, and Bologna. Professor Wishnow believes his most fortunate find was at Padua, home of the greatest violin master of the 17th Century, Giuseppe Tartini.

A prolific writer, Tartini wrote a number of theoretical works and composed many violin concertos, trios, and sonatas, among which "The Devil's Trill" is the most famous.

To the best of his knowledge, Professor Wishnow was able to discover and microfilm some of Tartini's works which have never been published.

In Venice, at the San Marco Library and Conservatory of Benedetto Marcello, he had photographed 12 concertos of an Opus 1 by Composer Marcello, of which less than half have been published.

In Bologna, Wishnow found the largest collection of the masters of the 16th and 17th centuries. He rediscovered church service music which was composed by Torelli for 120 string players.

After completing his quest in Italy, Wishnow returned to England. There, at the Middlesex Library of the University of London, he worked with the Italian finds and also with the Elizabethan music which he had collected earlier in the summer of 1955.

Professor Wishnow calls this period of music "one of the greatest original schools of counterpoint and most rewarding of all creative music written in England."

Now that he has found and transcribed these heretofore neglected manuscripts, Mr. Wishnow is in the process of adapting the music, putting it in the present notations for the contemporary string family.

He hopes that during this next school year, he will be able to add some of the manuscripts to the music experience of University students and concert audiences.

"It's surprising," he pointed out, "that this music has been left to wither. In some cases, these neglected manuscripts are of much better quality musically than those that have survived down through the years."

"I believe this music can be of tremendous benefit in the quality of literature which is being used in our schools," he said.

Wishnow's research study was financed in part by a Woods Fellowship, given through the University of Nebraska Foundation.

Journalists Use Time For Practice

Eighteen University School of Journalism students are using the summer months to obtain experience in the field, Dr. William Hall, school director, reported.

The largest number, 11, are working for Nebraska newspapers, according to Dr. Hall. Three each are employed in the radio-television and public relations fields, with one holding down a magazine position.

The summer journalists include: Lincoln Journal: Pat Coover, Dick Ramage, Ruthie Rosenquist, Barbara Sharp and Jerry Petsche. Lincoln Star: Al Holbert.

Lincoln Journal and Star Circulation: Germaine Wright. Nebraska City News-Press: Mary Jane Wilhite.

York News-Times: Sam Hall. Scottsbluff Star - Herald: Jack Pollock.

Fremont Guide & Tribune: Mack Lundstrom. KOLN-TV, Lincoln: Phyllis Bonner.

WOW-TV, Omaha: Mel Henning. KFOR, Lincoln: Jo Ann Gabaron.

University Public Relations Department: Dick James, city campus; Walter Patterson, agricultural campus.

U.S. Department of Agriculture Information Service: Helen Bishop. Outdoor Nebraska: Fred Gibbs.

Wayne Reed Plans Address This Tuesday

Wayne Reed, Assistant Commissioner of Education in the Division of State and Local Schools, will visit the University campus Tuesday, according to Dr. Frank Sorensen, director of summer sessions.

Reed will present two open-class sessions in Love Library Auditorium and will address the combined meeting of Phi Delta Kappa and Pi Lambda Theta at 6 p.m.

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Middle East Set As Trouble Spot

Three University faculty members, each representing a separate area, will be the featured speakers at the annual World Trouble Spot forum on July 18 at 2 p.m. in the Love Library auditorium, according to Dr. Frank Sorensen, summer sessions director.

Leslie Hews, head of the geography department; Wallis Peterson, assistant professor of economics and Rene Williams, visiting professor of political science from Louisiana State University, will discuss the Middle East, Dr. Sorensen stated.

The Suez crisis, the eternal con-

flict between the Arabs and the Israelites and other areas will be covered in the hour and a half program.

Each speaker will present an eight minute speech dealing with the problem from the point of view of his special field, Dr. Sorensen explained.

The speakers will also utilize audio-visual materials, under the direction of Jack McBride, he said.

The meeting will then be thrown into open session and free discussion and questions from the audience will be permitted.

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