

Geologist Treves to go south to Antarctica

The chairman of the University of Nebraska geology department is going south for the winter — to Antarctica.

Dr. Samuel Treves will leave California December 23 on his fifth trip to the Antarctic for a two-month study of Mt. Erebus, an active volcano on the Antarctic continent. The history and composition of Mt. Erebus will be the object of Treves' study. He plans to bring samples back to the University where tests will be run on them to determine their history. After the project is completed, he will write a report outlining the evolutionary history of the region.

Helicopters will be used to land Treves on the summit of the volcano. In addition to gathering samples of the rock, he will make geological maps of the site and study its activity.

Treves is one of a team of scientists participating in the U.S. Antarctic Research Program financed by the National Science Foundation. The team will live at the permanent American base at Ross Island but will sometimes sleep in tents on the field.

Treves said that geological work in Antarctica is much like that anywhere else — only colder. He explained that the temperature will always be around 32 degrees where he will be working. "Though it will be summer there will be very little snow melting," Treves added.

All of the clothing and equipment to be used is specially designed for polar weather, and most of the food that the scientists will eat on the field is frozen or dehydrated. It is good and quite easy to prepare, according to the researcher.

"Since it is summer in the Arctic Circle, daylight will last 24 hours, he continued. "This makes long working days possible."

Dr. Treves explained that expeditions to determine the history of the Antarctic are the first step to future studies. "Once we understand the origin of the region, we can start to relate geological phenomena in the Antarctic," he said.

The department head mentioned that his interest in Antarctic studies began in the late fifties while he was a graduate student at Ohio State University. Ohio State was a data reduction center for samples brought back from the Antarctic during the International Geophysical Year, giving Treves the opportunity to develop an interest in Antarctica.

Campus Calendar

- Wednesday, Dec. 10
Nebraska Union
- 2:30 p.m. Union-Music Committee
 - 3:30 p.m. Jr. Panhellenic
 - Red Cross-Villa Marie Builders-College Days & Tours
 - 4 p.m. ASUN
 - 4:30 p.m. AWS Workers Council
 - Union-Hospitality
 - Union-Contemporary Arts
 - 5:30 p.m. Engineering Toastmasters
 - AWS Congress
 - 6 p.m. Phi Beta Kappa
 - 6:15 p.m. Red Cross
 - 6:30 p.m. Kosmet Klub Workers
 - 7 p.m. Alpha Kappa Psi
 - NU Meds
 - NU Wildlife Club
 - Builders
 - NU Marketing Club
 - IFC
 - 7:30 p.m. Math Counselors
 - 8 p.m. YMCA-Student Involvement
 - 9 p.m. Nebr. Arab Assn.
 - Kappa Alpha Psi
 - 9:30 p.m. Fellowship of Christian Athletes

Student efficiency is Object of NU study

by Bill Smiltherman
Nebraskan Staff Writer

Do you feel that you study and work better at certain times of the day? You probably do, according to Dr. Kenneth D. Rose of the University Health Center.

Dr. Rose and his colleagues have just completed studies that show the relation of biological or circadian rhythms to how a person functions intellectually.

Using a test group of nine students and facilities in the student health center, Dr. Rose attempted to discover a difference between the biological functions of a "day person" and a "night person."

He explained that the test subjects were housed in a wing of the health center. They were allowed to come and go as they pleased, were fed three balanced meals a day, and allowed to eat anything they wished between meals.

"In short, conditions were much like those the students had been in before beginning the experiment," Dr. Rose said.

During the two-week test period, the subjects gave urine specimens every six hours and also took batteries of psychometric tests at the same intervals. The tests measured the level of mental alertness, while the urine samples were used to determine the level of two adrenal gland secretions in the body.

Before the test began, subjects were asked to fill out trineodic charts on themselves at regular intervals, Dr. Rose said. These charts are graphical means of determining when a person considers himself most and least efficient.

On the basis of these charts, the test group was chosen to include three "day people," those who function best in the day; three "night people," those who function best at night; and three who fit in neither group.



Dr. Kenneth Rose

Dr. Rose explained that the idea for the experiment came from Patrick Horsburgh, a former University of Nebraska architecture instructor. Horsburgh became interested in student efficiency when some of his advanced design students were not doing as well as he thought they should.

When Horsburgh left his design lab open 24-hours a day and allowed students to work at any time, he found that their efficiency improved. The biological rhythm experiment was an attempt to find out why.

Dr. Rose added that the two adrenal secretions studied are known to have a daily cycle. They are sometimes high and sometimes low.

"In the experiment, we found that the highs coincide with greatest intellectual efficiency and the lows with least efficiency," he said. "In day people and night people, these cycles seem to be almost exactly out of phase."

He continued that on the basis of the data, people who think they work best at night probably do. The same is true for day people, he said.

"Through this and later research, we hope to emphasize that people not only vary in height, weight, and hair color," Dr. Rose added, "but also in their biological rhythms."

"If we try to make everyone fit in a nine to five mold, some people will be at a disadvantage," he continued.

Dr. Rose said that this data could be put to practical use by students. People that work best in the evening should not sign up for morning classes and day people should not take night classes.

He predicted that in the future the principle of biological rhythms will be used in planning society. "The day will come when planners, academic and otherwise, will have to consider a 24-hour day rather than an 8-hour one."

"There will need to be much more research into this concept," Dr. Rose said. "Horsburgh has been at the University recently for the purpose of planning a research program expansion."

The project just completed was financed by the Steinhart Fund through the University of Nebraska Foundation.

Crompton receives PBK award

Dr. Louis Crompton, professor of English at the University of Nebraska, has won the 1969 Phi Beta Kappa Christian Gauss Prize for his book "Shaw the Dramatist."

The Christian Gauss Prize of \$2,500 is awarded annually for an outstanding book in the field of literary scholarship or criticism. The 1969 presentation was made to Dr. Crompton at the Phi Beta Kappa awards banquet in Washington, D.C., this weekend.

"Shaw the Dramatist," published April 15 by the NU Press, offers the most detailed analysis to date of 11 major plays in the light of Shaw's ideas and intellectual milieu.

The book was the subject of an essay review in the June 21 issue of Saturday Review in which John Barnes praised its "new and lively insights into Shaw's career as a dramatist."

Frederick P. W. McDowell, writing in The Shaw Review for September, called the book "rewarding and challenging, the most important critical work on Shaw to have appeared since Arthur Nethercott's 'Man and Superman' and Martin Meisel's 'Shaw and the Nineteenth Century Theater.' Cultivated readers and specialized scholars alike are in Mr. Crompton's debt. He writes tersely and gracefully."

A native of Port Colborne, Ontario, Dr. Crompton earned his bachelor of arts and a master of arts degrees in mathematics from the University of Toronto. He holds a master of arts degree in English and a doctor of philosophy degree from the University of Chicago.

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Dow stops napalm

Midland, Mich. (CPS) — Dow Chemical, spark plug for countless demonstrations on university campuses in the last three years, has stopped making napalm.

Company spokesmen said the American government awarded the contract for the jellied gasoline several weeks ago to another company American

Electric of Los Angeles, when Dow was an unsuccessful bidder for the new contract.

Last year, Dow's board chairman Carl Gerstacker pledged that the Company would continue to make napalm as long as the government needed it.

The contract was worth about \$10,000,000.

Spanish club to give film

The University of Nebraska Spanish Club, Circulo Espanol, will show the film "The Young and The Damned" ("Los olvidados") Thursday at 7 p.m. in Live Library.

"Los olvidados" is a drama of juvenile delinquency filmed in Mexico. The film was directed by Luis Bunuel whose early surrealist films include "Un chien andalou" and "L'Age d'or."

Student tickets are available for \$0.50 from Miss Virginia Shea in room 323-324 of Burnett Hall.

Registration date is extended

The registration date for the Nebraska Union recreation tournament is being extended to Friday. All students interested in competing in pool, bowling, ping pong and chess may sign up in room 128 of the Nebraska Union.

The NU team, composed of Jarchow, Larry Kubicek of Wilber; T. J. Peters of Elk Creek; and Larry Greenwood of Craig; placed eighth in overall team standing. The University of Kentucky was first with 4,599 points, followed by the University of Missouri with 4,593 and Kansas State University with 4,581. The NU team, coached by Prof. R. B. Warren, had 4,543.

Ag student wins livestock judging

John Jarchow of Daykin, an animal science major, placed first among 180 individuals representing 36 colleges and universities in a livestock judging contest held in conjunction with the International Livestock Show in Chicago, Ill.

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Holiday tale 'appealing to all'

The fairy tale musical entitled "The Rose and the Ring" will be presented today through Dec. 13 and Dec. 17-20 at Howell Theater at 8 p.m. Matinees will be at 2 p.m. today and Dec. 13.

The play directed by Andy Backer is being produced jointly by Howell Theatre and the Lincoln Recreation Department. Children from City Recreation will take part in the production which claims to have appeal at every audience level.

The joking, dancing and fooling take place in the fantasy worlds of Paflogonia and Drim Tartary.

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