

Arnold Conducts Rat Experiment: AEC Finances Study

Research experiments are being financed by the Atomic Energy Commission to determine what effects irradiation has on the behavior of rats. Dr. William Arnold, associate professor of psychology, is conducting them.

The effects of the irradiation of the brain of the rat has shown unexpected results, according to Dr. Arnold who has been working on the AEC project for three years. Irradiated rats showed a noted increase in learning speed and a decrease in forgetting. Ionizing radiation destroys some of the brain's nervous tissue. Dr. Arnold "fully expected the opposite results."

Dr. Arnold went on to emphasize



Courtesy Lincoln Star Arnold

that radiation does not produce "a true basic improvement in the learning process," rather, he continued irradiated rats probably learn faster and forget more slowly because they are less subject to incidental distractions and show less interest in new experiences.

Dr. Arnold stressed the need for care in making generalizations and predictions based on research findings. The hinted "diabolical" use of atomic energy to make humans better workers and more willing slaves was dismissed by Dr. Arnold as a "dramatic touch by some journalist."

In his first experiments for the AEC, Dr. Arnold irradiated the entire heads of the rats. This method produced undesirable physical effects. The rat's noses became inflamed and their eyes developed cataracts.

The irradiation of the entire head also speeded up the rate at which the rat's teeth grow. Rats' teeth grow spirally, and they circle and

push out through the roof of the mouth or the cheeks.

Recently a lead cylinder was designed that covered the body except for the brain. The brain of the rodent is exposed to the radiation from the X-ray tube, thus eliminating the bad effects from the entire head exposure.

After irradiation the rats apparently show a stronger hunger drive but a lower thirst drive. The motivations of the rat are measured by the number of times the rat will cross an obstruction. An electrified grill having a mild shock is in the path of the rodent. The measurement of motivations are compiled by the number of crossings per unit of time.

An experiment now being conducted might help to show whether radiation would have medical value in treating mental cases. The research will determine if irradiated rats are subject to abnormal behavior symptoms, as fixations.



Editor Gives Awards

Dick Fellman, former Nebraskan editor, is shown presenting Outstanding Nebraskan certificates to last semester's winners, John Goulay, Cornhusker editor, and Dr. Arthur Westbrook, director of University Singers, who will retire next year, at the Rag Press Club luncheon, Jan. 20. The Outstanding Nebraskans were selected by a vote of the paid staff members of The Nebraskan, and were announced in The Nebraskan. Left to right, Fellman, Goulay and Dr. Westbrook.

ROTC Graduates: Thirty-Five Receive Commission Ranks

Army, Navy, or Air Force commissions were presented Saturday morning to 35 University graduates who had completed four-year ROTC programs.

Receiving commissions as second lieutenants in the Air Force were: Alan Aden, Robert Amick, James Bailey, David Brand, Richard Hunt, Gary Koberstein, Ronald Longacre, Hans Mathiesen, Martin Nielsen, Jack Stiehl, Duane TeSelle, Richard Wells, and Daryl Wood.

Receiving commissions as ensigns in the U.S. Navy were: Leiland Dobler, Donald Lind, David Olson and Tommy Thompson.

Receiving commissions as ensigns in the Naval Reserve were: Jimmie Clark and Francis Kiely. Receiving a commission as a second lieutenant in the Marine Corps was Charles Koester.

Receiving commissions as second lieutenants in the Army Reserve were: Infantry: Jack Keene and Frederick Longacre, Corps of Engineers: Robert Becker, Merlyn Grueber, Vernon Magill, Franklin Szama, Robert Schwantje, Daniel Werkmeister and Aloysius Zelewski.

Military Police Corps: Gordon Fitzekam and Lee Stalaker.

Ordnance Corps: Paul Jordan, Rodney Rippee, Jerry Roe and Peter Schmitt.

Puccini Opera: 'La Boheme' Tickets On Sale At Theater

Tickets for "La Boheme" have been placed on sale, University Theater has announced. Reservations for season tickets and general admission are \$1.50 and will be on sale Monday through Friday, 12:30 p.m. to 5 p.m., and Feb. 13-18, the week of production.

Orchestra members for the production of Puccini's four-act opera have also been announced. They are:

First violin: James Stevenson, Charles Palmer Aleta Collier and Rosemary Weeks; second violin, Walter Carlson, Virginia McPeck and Bette Harrison; viola Louis Trzcinski and Morris Collier; cello, Carol Puckett and Charles Klasek.

Bass: George Work and Harold Spicknall; flute Willis Rosenthal and Rosene Wunderlich; clarinet, Wesley Reist and Arnold Epstein; oboe, Orlan Thomas; bassoon, Richard Oehring; trumpet, Roger Brendle and Jack McKie; trombone, Wendell Friest; french horn, Eugene Hazen and Allen Ziegelbein; percussion, Jerry Coleman and Philip Coffman; piano, Shirley Hertz.

"La Boheme" will open Feb. 14 at 8 p.m. and will play through Feb. 18 in Howell Memorial Theater.

The opera is set in the Latin

Quarter in Paris of the 1830's, where students and shop-girls live in optimistic poverty.

Their dreams, loves and griefs form the libretto for Puccini's lyrical music.

Alternating in the roles of Rudolpho and Mimì are Joseph Feeney and Amer Lincoln, Barbara Blair and Norma Bossard. The secondary romance between Marcello and Musetta will be sung by John Poutre and Shirley Halligan and Cecelia TeSelle. Miss Bossard, Miss TeSelle and Lincoln will appear in the Feb. 15 and Feb. 17 performances.

Production staffs for the opera are: production manager, Jack Parris; assistant to the director, Trudy Scriven; rehearsal accompanist, Shirley Hertz; lights, Gloria Kollmorgan, Josephine Margolin and Phyllis Chard; costumes, Doris Growcock, Marcia Mittelstadt and Kathleen Schmutte; scenery, Eugene Hare, Tom Adams, Don Auld, James Copp, Stephen Schultz and Bernard Skalka; stage and hand properties, Beverly Giltner, Sue Woolard and Stephany Sherdeman; makeup, Len Schropfer and Linda Beal.

Max Whitaker is dramatic director and Earl Jenkins is musical director and conductor. Designer for the opera is Jerry Carlson.

NU Enrollment Shows Gain Of 17 Per Cent

Enrollment figures at the University for second semester are running about 17 per cent ahead of last year at this time. Dr. Floyd Hoover, director of registration and records, reported Monday.

Monday 5609 students had registered compared with 4764 last year.

However, by the end of registration, Feb. 18, Dr. Hoover expects the increase to be from 7 to 10 per cent, or 7500 students compared with 6,899 of last year.

The breakdown of this year's registration follows: 5442, regular students; 138 graduate students; and 29, Teachers College advanced professional degrees.

Eskimo Land To Set Scene For Sno-Ball

Couples will dance in Eskimo land at the eighth annual Sno-Ball dance Saturday from 8:30 to 11:30 p.m.

The dance will be held in the Ag College Activities Building, with music being furnished by Tommy Tomlin and his orchestra.

Theme of this first Ag college dance of the second semester will be "Eskimo Scene," and decorations will include a false ceiling.

Tickets are available in the organized houses on Ag campus and at the booth in the Ag Union. The price is \$1.50 per couple.

Presentation of the "cutest baby" and the winner of the baby identification contest will take place during intermission, according to Bill Spilker, chairman of the sponsoring Ag Union Dance Committee.

Morrill Hall Display: Ohio Museum Director To Open NU Exhibition

Director of the top-ranking health museum in the country, the Cleveland Health Museum, will visit the University to open the rehabilitation exhibit, "Able to Live Again," at the University State Museum Wednesday.

Dr. Bruno Gebhard, director of the Cleveland Museum since 1940, will formally open the display at 8 p.m. Wednesday.

The exhibition which displays equipment and aids for the handicapped is being shipped from Cleveland to Morrill Hall, for a one-month stay. Tom Gable, curator of Health Services at the Museum, said.

Financing the exhibition is a \$2,000 gift given by Ralph Mueller of Cleveland, O., through the University Foundation. The display will augment the Mueller Health Galleries at the Museum which were financed by Mr. Mueller through the Foundation.

Dr. Gebhard, who received his doctor of medicine degree in 1924 in Germany, was curator of the German Hygiene Museum in Dresden from 1927 to 1937. From 1937-40, he was technical consultant of Medical and Public Health Exhibits at the New York World's Fair.

He is a diplomat of the American Board of Preventive Medicine and Public Health, fellow in American College of Preventive Medicine, honorary fellow of International College of Dentists, fellow of Rochester Museum of Arts and Science, and fellow of the American Medical Association.

Participating in the month-long presentation of the rehabilitation exhibit at the University Museum are: Lancaster County Medical Society; Mayor's Committee for Employment of Handicapped, Lincoln; Nebraska Department of Rehabilitation Services; Nebraska Physical Therapy Association; and The Sunday Journal-Star.

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