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This is Your University: Sydney Chapman, Alpha-Helix Biological Laboratory Afloat, Planning and Funding and Construction for Increased Enrollment, Festival of Arts (1967-1968)

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FIRST EPISODE: SYDNEY CHAPMAN:

The reception for the noted scientist had been underway for half an hour when someone noticed that the guest of honor wasn't there. A look of consternation came over the host's face until he remembered that, of course the guest wouldn't be there for a while because he had gone for his daily half-mile swim. The guest was Dr. Sydney Chapman of the University of Alaska's Geophysical Institute, one of the world's foremost authorities on the aurora and geomagnetism. Last week the University honored Dr. Chapman by dedicating the building housing the geophysical institute in his name. The honor was in recognition of his 80th birthday which he observed on January 29th.

Sydney Chapman first applied his scientific talents in 1910 as a chief assistant at the royal observatory in Greenwich, England. He published hallmark works on the kinetic theory of gasses. He has averaged one published scientific paper every two months for more than 50 years, an average that he now exceeds in his ninth decade. It is said that Sydney Chapman owes his remarkable vigor and good health to a lifelong affinity for the outdoors and regular exercise. There was a time in Australia when Dr. Chapman, then approaching 70, announced his intention to bicycle the 200 miles between Canberra and the city of Sydney. The time of the year was January, the middle of the Australian summer. Two young astronomers insisted on accompanying him. One would ride the first half of the journey and the other the second half. At the start of the trip in Canberra the temperature was about 105 degrees. At the finish of the trip in Sydney, Dr. Chapman arrived fresh, hale and hearty but both of his fellow younger travelers had to go to bed to recover. A fellow scientist recalls a time in London when Dr. Chapman rode his bicycle from Kensington to Piccadilly in the dense evening traffic in full evening dress to attend a suaré at the Royal Society.

Since 1951, Dr. Chapman has been professor of geophysics and advisory scientific director of the geophysical institute. He is a specialist on the aurora. He retired in 1949 from a post at Oxford University. He has since divided his time between the University of Alaska and the National Center for Atmospheric Research in Boulder, Colorado. He also annually visits a half a dozen other institutions. He is a member of nearly 20 scientific societies was international president of the international geophysical year and had received medals and honorary degrees from societies and institutions around the world.

SECOND EPISODE: Scientific expedition researching super-cool tissues in sea animals:

At the University of Alaska, seventeen institutes and associated agencies carry out major research programs which take advantage of the university's unique location in the subarctic of interior Alaska. There is accessibility to the oceans from the Pacific to the Arctic to the glaciers and permafrost areas to the aurora zone. At this moment, somewhere on the Bering Sea, five scientists from two of the university's research organizations are aboard the 133-foot, 300-ton Alpha Helix, a biological research laboratory vessel.

Sea pups, born on the sea ice, enter life with body warming fur much like typical land animals. But if the fur provides insulation from cold on land, what process occurs that eventually makes it possible for the pup to plunge into the frigid sea? How does the body adapt to swimming in freezing water? The answers to these questions are sought by the scientists aboard the Alpha Helix, at sea between Nunivak and St. Lawrence islands. Senior scientist from the university is Dr. Lawrence Irving, Advisory Scientific Director of the Institute of Arctic Biology. Also participating from the Institute are Professor L. Keith Miller and John Boust(?), a graduate student, the University Institute of Marine Science is represented by its director Dr. Donald W. Hood and a graduate student Peter McRoy(?) and from the campus is Dr. Francis Fay(?) who represents the Arctic Health Research Center, a federal facility. These six scientists have joined the first of four phases of the Bering Sea expedition, sponsored by the Scripps Institute of Oceanography. The overall expedition is led by Dr. P.F. Scholander of the University of California, San Diego, Director of the Scripps Physiological Research Laboratory.

The first phase is a cooperative undertaking between the University of Alaska and the Scripps Institute. It began March 10th and concludes in late April. Subsequent phases, which run until October, will involve some 50 scientists from five nations. The entire expedition was funded by grants from the National Science Foundation. Before leaving the university campus Dr. Irving outlined another project of the expedition. He said, "Portions of the superficial tissues on warm blooded seals and walrus may be near freezing when exposed to icy water. Nevertheless, this tissue retains its sensitivity. One of our goals will be to find out why, by studying the nerve functions. Of course, fishes and crabs are likewise affected and operational despite cold waters under arctic ice. So, we will be examining their cellular and organ functions also." Dr. Irving believes the operation of super-cool tissues in these animals may throw light on the fundamental nature of circulation among cells, upon which all life processes depend.

THIRD EPISODE: Oliver Everett on the sixth annual spring poetry contest

The 6th annual spring poetry contest is approaching and Oliver Everett, contest chairman and former poet laureate of Alaska from 1965 to 1967 is on the guest on the show.

There are four categories under which to enter: non-student (including faculty and part-time students but not staff from the Arts and Letters College), college students, high school students (grades 9-12), and junior-high/grade (grades 1-8). In the top three categories there will be \$50 prize for best poem in each category and at the junior high or grade level the prize have been broken up into a \$25 prize, a \$15 prize and a \$10 prize.

The judges accept or reject entries and it could happen, as happened for the non-student group last year, that a category might not have a winner due to too few submissions of quality.

Last year there were approximately 450 entries and about 500 entries are estimated for this year.

The poems to be submitted may be of any form, length, and on any subject. Up to three entries per person may be submitted. The submissions are mailed in and should be accompanied by a self-addressed stamped envelope. The poems should not have the authors name or anything identifying on them so that the judges do not know whose poems they are looking at. The deadline for poems is April 15th at 5 o'clock. The poems become the property of the University of Alaska but authors retain the rights to their poems.

Last year's winners David Molett(?) of Fairbanks for the high school category, Kelly Palmquist(?) for the college category, none for the non-student category, and Natalie Spurlin(P) of Sunshine Station for the grade category.

FOURTH EPISODE: Expansion of the University in 1968

It was the year of 1935 when the Alaska Agricultural College and School of Mines was renamed University of Alaska. Dr. Charles E. Bunnell was the president, enrollment was climbing, a new library was an almost desperate necessity, and the legislature was debating the university's appropriation. The parallels between the University in 1935 and the University of 1968 are significant and highlight a continuing problem for the university: planning, funding, and constructing the buildings necessary to meet the needs of ever-increasing enrollment.

In 1970, and estimated 3,180 students will seek a higher education on the University of Alaska's campus at College. To accommodate this number, planners are scheduling one of the largest and most inclusive series of construction projects in the university's history. The projected total cost is \$55 million over the next six years. Charles Sargent, Executive Director of Planning says the construction will give us the core facility to become a true university in the broadest sense. One of the new projects is the library, fine arts and humanities complex, a set of four buildings designed by the Anchorage architectural firm of Manley and Mayer. A description of the buildings and their special features is included. At present, 2.16 acres needed for the buildings are being cleared. Planning Director Sargent hopes construction will be underway by April 15th. Funds for the complex include \$8.5 million from a bond issue approved by Alaskan voters in 1966 and nearly \$2 million from various federal sources. Completion is set for the fall of 1970.

The university also hopes to plan four new dormitories. A 322-bed dormitory is being bid upon at present. Building will begin this summer and four of eight floors are to be opened for occupancy in 1970.

Other current projects are a seven-story geophysical institute building, a student activity center, two buildings for the social sciences and mineral sciences, a museum, field house, and a dining hall.

Three community college buildings will soon go up. A \$500,000 structure will be built in Ketchikan on a 48 acre site, donated by the Ketchikan Pulp Co. Designs are by Jennings Graham. The apparent low bidder for construction is McGilvray Bros of Ketchikan.

The Juneau-Douglas area will have a similar community college building planned by Lynn A. Forst(?) and sons.

A large project is planned for Anchorage Community College where enrollment now exceeds 2,000 evening students. A \$4 million, 6-building complex is due for initial construction work early this summer.

FIFTH EPISODE: Prof. Gene Donner on the 10th Annual Festival of Fine Arts

The 10th Annual Festival of Fine Arts presented by the College of Arts and Letters began on Friday, March 29th and will run until April 14th. Assistant Professor of Journalism, Gene Donner, is one of the co-chairman of the festival this year, the other co-chairman being Associate Professor of Music, Jean-Paul Billaud.

Professor Donner explains that this year's festival has an expanded program. The original plan was a three-week festival, the first week being an international film festival of Cannes-award winning films, the second week being a musical festival and the third week was to have been a Whitehorse international drama competition. But for mainly financial reasons, the drama competition was cancelled.

The highlights of the festival will be Laurindo Almeida, the famous Brazilian classical Spanish guitarist, bass-baritone William Warfield singing the passion of St. John, poet and playwright Kenneth Rexroth reciting his poetry.

Professor Donner hopes for greater participation by the people around the state of Alaska next year.

As for campus organizations which will be performing, Jean-Paul Billaud will be giving a piano recital on the last day of the festival, the University Madrigal singers will be performing, poets will recite during the poetry evening, and lecturers and exhibits will be given by the faculty of arts. There will be a photo exhibit, an art exhibit and a museum exhibit.