Native Craft

CARVED IVORY, Slippers; mukluks; custom seal skin

4 Scientists Involved—

Intensive Study of Troublesome Ice Fog

COLLEGE-lce fog, that troublesome mixture of gasses and vapors which blankets Alaskan cities in sub-zero temperatures, will be the subject of an intensive study next winter by four scientists from the University of Alaska's Geophysical Institute

The researchers-Drs. Carl Benson, Gunther Weller, Charles Wilson and Ken Philip-will con-duct a series of measurements of the fogbank over Fairbanks, us-

the logbank over Fairbanks, using a specially-developed "acoustic radar" device.

The National Science Foundation is providing funds for the project, entitled, "Acoustic Radar Investigation of Arctic Radiation Inversions and Ice Fog." through a recently-announced grant of \$61,400.

A related grant of \$98,500 to the Environmental Science Services Administration's Wave Pro-pagation Laboratory, in Boulder, Colorado, provides funds for construction of the radar sound-ing device to be used in the exing device to be used in the experiment.

Although it is generally recog-nized that a particular climatic condition, called a temperature inversion, often gives rise to the dense gray ice fog which plagues arctic industrial areas, little is known about the structure of the fogbank and the time needed for its development. Informa-tion gathered during the acoustic radar study may prove useful in developing techniques to con-

developing techniques to con-trol or prevent the ice fog.

The acoustic sounding device, now under construction at the cooperating Colorado laboratory, will both send and receive pulses of sound from its College Road location. The machine will "beep" into the air overhead, then record the returning echo of its acoustic pulse. of its acoustic pulse.

The minute differences in the atmosphere, caused by slight variations in temperature or wind velocity, are easily registered through this technique, because of the resultant changes in return

rate of the sound-waves.

Next winter, as soon as a temperature inversion develops. the acoustic radar will be put inthe acoustic radar will be put into operation, shooting sound waves overhead throughout the development and dissipation of the ice fog. With the recorded information, a profile of the inversion conditions can be developed.

The receasibles hope to continue the continue of the inversion conditions can be developed.

The researchers hope to con-tinue this experiment for several winters. As the study is ex-panded, a mobile sounding de-vice will be added, to measure the atmospheric density and temperature at various sites around Fairbanks. However, only the stationary sounder on College Road will be in operation in 1971-72.

In the early phases of the ex-periment, tethered balloons, car-rying meteorological instruments, will also be used to mea-sure temperature, wind pressure

sure temperature, wind pressure and radiation thus providing even more accurate measurements of the inversion condition.

Each of the four scientists involved in the experiment will coordinate a different phase of the study. Meteorologist Weller will study the evolution and dynamics of the temperature inversion. Dr. Benson, well-known for his studies of ice fog, will analyze the data received in an attempt to discover the relationship of the inversion to the de-

attempt to discover the relation-ship of the inversion to the de-velopment of ice fog.

Dr. Phillips is in charge of the project's technical aspects. In-frasonics-expert Wilson, using a delicate microphone instrument-ed especially for the purpose, will study internal gravity waves involved in inversion conditions.

Study of the development of temperature inversions is of par-ticular importance in the study of ice fog, for without this par-ticular condition pollutants would not be trapped near the earth's surface, but would dissipate as they are released.

Moose Creek Nike To Scan for Flood

tor Mike Gravel (D-Alaska) said tor Mike Gravel (D-Alaska) said he has received assurances from the U.S. Corps of Engineers that the Army Nike site at Moose Creek, Alaska, will remain in in operation for at least the re-mainder of this year.

Senator Gravel said he had been "greatly disturbed" by re-ports that the site might be closed, "since" the microwave communications facilities at the site constitute the center of the flood warning system for the entire Fairbanks area.

entire Fairbanks area.

"Although I share everyone's hope that this Spring's run-offs will be gradual enough to avoid severe flooding conditions, the possibility of damaging floods is with us and it is essential that this important warning system be continued until a substitute system can be implemented.

system can be implemented.
"I therefore, am most pleased "I therefore, am most pleased with the decision not to close down the Moose Creek site for the remainder of the year, thereby allowing time for the establishment of a new flood warning system to serve the Fairbanks area," Senator Gravel said.

More Kowchee Art

The arctic winter landscape. The hunter, guiding his dog team across the frozen north, in

in search of the seal.

These are the themes of two new seal skin drawings by Ralph Kowchee, an Eskimo artist in McGrath, Alaska. In fine detail,

McGrath, Alaska. In fine detail, they portray the hunter and the hunted, the variations of the seemingly blank white winter landscape.

The drawings are done in black ink on the naturally tanned ivory inside of the skin of the ring seal. The drawings can be cleaned by wiping them lightly with a damp cloth.

These two drawings, priced

These two drawings, priced at \$175 are available from the Tundra Times, along with several of Mr. Kowchee's drawings on deer skin, priced from \$20 to

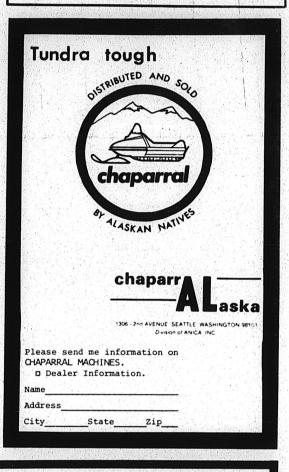
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The Alaska Area Native Health Service is recruiting for the following positions. Closing date for applying for most of these positions is April 16, 1971. Preference will be given to ap-plicants with 1/4 or more Alas-ka/American Indian, Eskimo or Aleut blood.

Supervisory Clinical Nurse -St. George Island. Requires two or three years experience be-yond a nursing degree in co-ordinating health care. This is an isolated condition post with assignments not to exceed one

Clinical Nurse - Fort Yukon. Requires a degree plus 2½ years professional experience or 3 to 4 year degree plus 1½ years ex-perience. This is an isolated post with service limited to one

Dietitian - Bethel, Alaska.

Requires B.A. degree plus at least one year experience in the department of dietetics of a hospital.

Mixed Gang Foreman, Equipment Operator, General Maintenance Mechanic, Plumber, Laborer - Anchorage, Galena, Manokotak, Lower Kalskag, Kaltag, Hydaburg and Klukwan plus other locations. Federal Civil Service Commission qualification requirements apply.

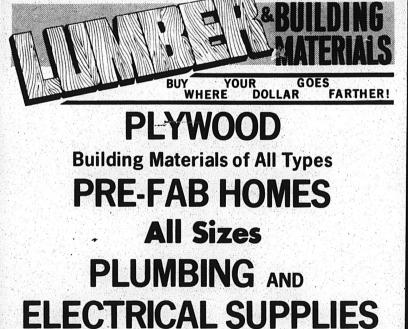
Applicants for the above positions should apply in writing along with a completed SF 171 Personal Qualifications Statement to the Area Personnel and Training Branch/ Department of Health Education and Welfare/ Public Health Service/ Alaska Area Native Health Service/ Box 7-741 / Anchorage, Alaska

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