

# Artificial Auroral Experiments to Sweep Over Poker Flats

Artificial auroras, expected to be easily visible to the eye, will be generated sometime this week above central Alaska.

A large Castor rocket will boost a 2000-lb. payload from the University of Alaska's Poker Flat Research Range at Chatanika. The payload contains massive battery supplies for electron accelerators that will operate when the vehicle reaches auroral altitude, roughly 100 km.

Intense beams of accelerated electrons then will strike the high atmosphere to generate the

artificial auroras.

The rocket itself will be a spectacular sight in the Fairbanks area as it lifts off from Poker Flat. About two minutes later the electron guns will begin operation to produce the auroras. More than 100 auroral rays will be produced if all works well. Each will last about 1 sec, and the time between auroras will also be 1 sec.

The rocket will be flown by the Air Force Cambridge Research Laboratory in Massachusetts to study the interaction of charges particles with the atmosphere.

The payload was built by Visidyne, Inc. under the supervision of Mr. Orr Shepherd. Dr. A.T. Stair and Mr. Robert O'Neill, both of AFCRL, are the project scientists. The overall program is supported by the Defense Nuclear Agency.


Television and other observation of the auroras will be done by Geophysical Institute, at Ester Dome Observatory, and at Ft. Yukon.

Dr. T. Neil Davis, Deputy Director of the Geophysical Institute, said that attempts will be made to notify local radio and TV stations just before the rocket flight so that residents of central Alaska can observe if they wish.

Also, Poker Flat is involved in launching a series of barium

release rockets each clear night during evening and morning twilight. These also create a spectacular view for observers.

For additional information call Neal Brown, 479-7014, or Dr. T. Neil Davis, 479-7393.



Mail orders welcome  
Custom made nugget jewelry  
Watch repair

**Perdue Jewelry**  
706 Noble • 456-5103

**ALASKA CENTRAL AIR**



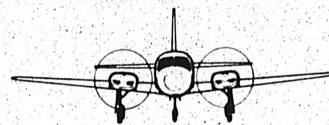
formerly  
Tanana Air Taxi

456-4411 or 452-4797

**ALASKA CENTRAL AIR**  
ALASKA CENTRAL AIR SERVICE, INC. 10000 N. S. R. RD. 100  
DEPENDABLE AIR SERVICE FROM THE HEART OF ALASKA

## Harold's Air Service

GALENA and RUBY, ALASKA



John Billings

Manager

Box 65, Galena

656-1251 or 656-1234

Charter & Contract Flying  
Single and Multi-Engine

Harold Esmailka

Owner

Ruby, Alaska

## AUTO PARTS SERVICE

When you want the finest in oils for your snowmachine, specify PENNZOIL Snowmobile Oil.

Pennzoil Snowmobile Oil is compounded for top performance under the toughest conditions. It's made from pure Pennsylvania crudeoil and fortified with EXCLUSIVE internal protection additives to protect engines that operate at punishingly high temperatures, in freezing weather conditions.

Pennzoil Snowmobile Oil will eliminate the smoke and plug fouling—make your engine last longer. You should try it! If you do, be sure to look for the difference.

Distributed by AUTO PARTS SERVICE

500 East 5th Avenue  
ANCHORAGE, ALASKA 99501

Mail orders promptly filled.

Telephone: 272-4414

## APUC Allows Certificate Transfer of NST

The Alaska Public Utilities Commission has allowed the transfer of the certificate of public convenience and necessity held by North State Telephone Co., Inc. of Kotzebue.

The Commission ordered that the transfer shall be completed on or before May 1, 1975.

Also, the Commission has allowed OTZ to place into effect the rates and charges which North State was using in Kotzebue on or before January 1, 1975.

In its order granting the transfer of authority to OTZ to provide local exchange telephone service in Kotzebue the Commission noted that the utility will have its main offices in that community and that OTZ will be a customer-owned cooperative.

## SUBSCRIBE!!!

### AL WRIGHT'S AIR SERVICE

- registered guide service
- charter service
- Alaska & Canada
- single & multi-engine

—Floats—Wheels—Skis—

WRITE OR CALL

AL WRIGHT, Box 3142  
5 Mi. Airport Way—456-5502  
Residence Fairbanks—479-6393

For free sponsored  
16 MM film short subjects  
write Dick Norman  
at

### PICTURES, INC.

811 8th Ave., Anchorage

—Serving Alaska Since 1939—

## FEL-AIR, INC.

Air Charter Service  
to All North slope  
villages

Business men, tourists,  
community developers  
and  
Passenger Service  
and  
Freight

## FIVE PLANES

Two planes with  
Twin Engines

BARROW, ALASKA  
P.O. Box 547

call

852-5900

## you have a good neighbor at RCA Alascom

Polly Shallock is manager of operator services for RCA Alaska Communications, Inc. She's responsible for the telephone operators of the Fairbanks Toll Center and its tributaries. But that only tells part of Polly's story.

Long distance telephone traffic at the Fairbanks Toll Center has increased 54% in 1974 as compared to 1973. As chief operator, Polly is responsible for training the operators to handle the automated toll service desks which have helped increase the call handling capacity.

Polly is vitally involved in her community. She spends time helping the Alaska Dog Mushers Association, as secretary,



timekeeper and race announcer. Polly's civic participation extends to Little League activities, and to the Fairbanks Chamber of Commerce. She welcomes high school students from Alaska bush into her home.

To Polly Shallock, and to 1,100 other RCA Alascom employees, a better community is as important as improved communications.

**RCA** Alaska Communications

