

Civil Air Patrol Observes 15th Anniversary

Medford Squadron Has 45 Cadets; 25 Are on Active List

The sky is no longer the limit—at least not for the nation's thousands of teenage Civil Air Patrol cadets.

The Civil Air Patrol has been made the official civilian auxiliary of the United States Air Force by act of Congress. It is a non-profit organization and members receive no pay for their services other than fuel used in emergency missions.

15th Anniversary

This week and the Civil Air Patrol is observing its 15th anniversary celebration. This volunteer organization, dedicated to strengthening defense and promoting aviation, now consists of 5,000 boys and girls between 14 and 18 years of age. They wear the Air Force uniform with the Civil Air Patrol insignia and have formed squadrons, groups and wings in 2,500 American communities.

The Oregon CAP wing consists of 23 squadrons and one of the more active is located right here in Medford. The local squadron, chartered in 1920, has 45 registered cadets. Twenty-five of the cadets are on the "active" list, attending weekly meetings and learning first aid, radio communication, flying, navigation, military courtesy and most essential phases of aviation and rescue work.

Encampment Here

Local cadets today are winding up their anniversary celebration with an encampment which started yesterday in the CAP headquarters at the Medford airport. Morning sessions include 8 a. m. reveille, breakfast and personal inspection. Camp will be interrupted between 9 a. m. and 12:30 p. m., while cadets attend their individual churches. The session will be resumed with dinner at 1 p. m., followed by flight time (if weather permits) or squadron drill from 2 to 4 p. m. Retreat will be at 5 p. m. and members will break camp immediately afterwards.

Yesterday's session included classes in aerodynamics, military courtesy and communications as well as an early morning drill. The squadron has invited the public to all of today's activities.

Squadron Officers

In charge of the overall CAP program in Medford is Comm. Hubert (Hugh) E. Curtis. Other officers of the squadron include executive officer, W. O. Leonard; public information officer, W. O. Al Randall; chaplain, the Rev. J. H. Matthews; adjutant, Lt. Bette Miller; personnel officer, W. O. Joyce Williams; communications officer, W. O. J. Valentine; assistant commander, Lt. O. Lyle; senior training officer, Lt. Don Wilson; transportation officer, Lt. Bob McKelvie; operations officer, Lt. Stan Shafers; communications officer, W. O. L. C. Case; finance officer, W. O. Bill Florey; and outside activities officer, 2nd Lt. Victor Ovid.

Requirements for membership in the CAP are not rigid. Basic qualifications for applicants are an interest in aviation and a minimum age requirement of 14. No physical or mental examination is required. Even a major physical disability does not bar an applicant from membership. Commander Curtis pointed out.

The Civil Air Patrol, often called the "right arm" of the Air Force, can muster a total of some 5,300 planes in an emergency. These include light planes owned by CAP members and similar planes owned by CAP units. Supplemented by more than 500 liaison planes donated by the Air Force.

The organization is called to help in a variety of emergencies. For instance, when a plane is reported missing in a certain area, the nearest CAP squadron is notified.

Squadron members are often more familiar than military personnel with the geography of their home areas. They go up in planes and search the vicinity to which they are assigned. In instances of plane crashes, the CAP has often been the first to spot the wreckage. Frequently the Air Force doesn't get out on missions to which the patrol has been called.

Helped in Flood

Most important local mission of the Medford Squadron was the flood of last December. Working with other rescue organizations, the squadron conducted air patrols of the flooded areas searching for signs of distress. They were considered instrumental in the successful rescue of several flood victims.

The Civil Air Patrol annually performs more than 50 per cent of the total search hours flown by all participating agencies on searches with the continental limits of the United States, controlled by the Air Rescue Service.

However, not all defense and rescue work is done in planes. They must also have ready knowledge of communications and first aid. The CAP maintains a nation-wide radio network of more than 11,000 fixed, mobile and airborne facilities. They operate on both medium and high frequencies assigned by the Air Force and blanket the 48 states and four territories.

Radio Operators

The Medford squadron has eight members trained and licensed by the Air Force in ground communication. Among radio equipment used by the local cadets is an Air Force surplus short wave, high frequency radio with which they can contact Portland and other squadrons.

Commander Curtis said an aim of the local squadron is to get each cadet certified in first aid administration. A nine-week first aid class started here last week and will meet each Tuesday from 7:30 to 9:30 p. m. The sessions are under the direction of Lt. Bette Miller, a certified first aid instructor.

Much of the aviation training is offered by senior members, who must be licensed by the Civil Aviation Association before taking a plane into the air. Cadets are not allowed to pilot a plane but go up with their leaders to observe and learn principles of plane operation and navigation.

Use Link Trainer. Cadets in the Medford squadron also learn basic elements of flying in the Link trainer. This machine, the same as is used by the Air Force in training pilots, resembles a regular plane cockpit and has all the controls for instrument flying found in an actual plane.

Duplicate instruments are supplied in the same room for use by the instructor while the cadet is operating the instruments in the Link. The machine is also supplied with regulation radio equipment. Other aviation training equipment includes a "tracker," with which any route of flight may be mechanically traced.

Special Training

The squadron also has an Air Force surplus two-place observer type L-16 aeroplane, with 90 horse power continental engine. This plane is the equivalent of a type used by the Army and Air Force in World War II.

Government provisions have also been made for special training of CAP youths. Among opportunities open to ambitious cadets is jet orientation, through

which members actually live in an Air Force camp for about two weeks and take technical courses in jet aviation.

From this squadron, Janice Stevens and Lt. Bette Miller, who was also named the year's outstanding girl in the Oregon wing, attended an encampment at Lackland Air Force base in Texas in 1935. Mary Daniels went there this year.

Many cadets direct their ambitions toward the international exchange program. This involves about two weeks study of a program corresponding with CAP in one of several foreign countries. In 1931 James Merritt went

to Denmark, in 1932 Albert Easton went to England and in 1933 William Neal went to The Netherlands.

This year two members of the Medford squadron are eligible for either jet orientation or international exchange. They are Cadet Lt. Lee Gossett, who recently received his private pilot's license, and Cadet Sgt. Kenneth Baker.

Congressional Dinner

Another coveted honor is attendance at the congressional dinner for Civil Air Patrol members in Washington, D. C. Last year, Arnold Dillon won a congressional dinner invitation.

Other awards available to CAP participants are observer wings, awarded for 20 hours in flight orientation, and various ribbon honors. Currently, about 20 cadets and six or eight senior members are looking forward to attending the annual wing conference in Portland Dec. 8.

Social Center

Records also show former Civil Air Patrol cadets tend to be among the most successful Air Force enlistees.

Cadets and senior members all regard their CAP headquarters as a social center as well as a place of work. Commander Curtis said: "You can usually find someone out here. We senior members come here often looking for a cadet to go flying with, especially on Sunday afternoons." He added that squadron members enjoy entertaining visitors and the public is invited to the Tuesday night meetings.

Duplicate Controls

W. O. Leonard Woods, executive officer of the Medford squadron, communicates with a cadet in Link trainer (not pictured), in drawer are instrument flying controls identical to those in the trainer. On top of table is the tracker, with which any route of flight can be traced mechanically.

Coordinated Basket Program Planned for County at Christmas

Plans for a coordinated Christmas basket program for Jackson county were made at a meeting of the Community Relations committee of the Inter-Agency council held at the veterans administration domiciliary at Camp White.

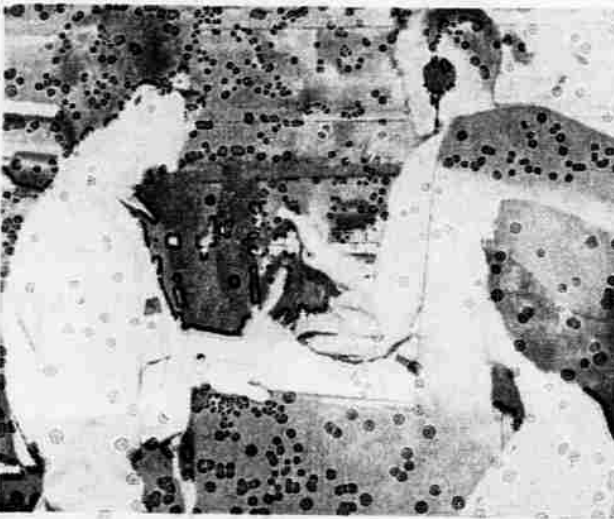
The plans were formulated to provide Christmas baskets to as many deserving families as possible, committee members said. The plan calls for one central clearing agency for names of all families needing Christmas baskets. The Jackson county Red Cross office on the first floor of the courthouse in Medford was selected as the central office.

Any group or individuals wishing to refer a family may contact the Red Cross office. Committee members have asked that referrals be made as soon as possible.



SQUADRON PLANE—Cpl. Mike Hartley sits at the controls of the squadron's Air Force surplus L-16 aeroplane while Cadet Kenny Potuck "twists the tail." The two-place observer

type plane, with 90 horse power continental engine, is identical to a type used by the Army and Air Force during World War II.



LINK TRAINER—Cpl. Mike Hartley is shown operating the Link trainer which contains instrument flying controls identical to those found in an actual plane. Observing are cadets Sharon Miller and Rodney Hanley. The Air Force also uses Link trainers for instruction of pilots. The Medford squadron has had the Air Force surplus Link equipment for about five years.

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Commander Curtis said a great number of CAP cadets are eventually inspired to enlist in the Air Force as a direct result of their CAP experiences. "Their old CAP squadron is one of the first places they visit when they come home on leave or after they're discharged," he said. "They all claim their work in our organization has been of great help to them."

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Pioneer Theater Man In Northwest Dies

New York—UP—John Hamrick, pioneer theater operator in the Pacific Northwest, died Friday in New York.

Hamrick, president of John Hamrick theaters, presented the first sound film in Portland, Tacoma and Seattle. His organization operated the Liberty and Roxy theaters in Portland as well as houses in the two Washington cities. He was vacationing in New York with his wife and daughter at the time of his death.

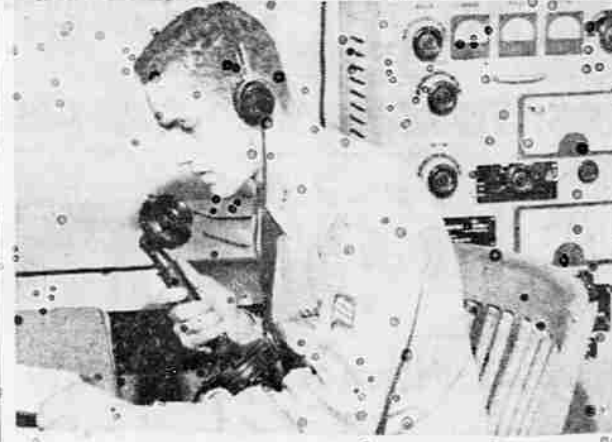
WEATHER

By United Press

Northern California: Clear Sunday except occasional fog on north coast. Little change in temperature.

sharing in the program. The committee said it is hoped that one central clearing agency will eliminate duplications or omissions in basket deliveries.

Further information may be obtained from Mrs. Helen A. Wilson at the Red Cross office, Medford 2-5919.



RADIO COMMUNICATION—CAP Sgt. Bob Greer demonstrates use of the local squadron's short wave, high frequency radio which was originally used by the Air Force. With this equipment, Medford cadets can communicate with Portland or other squadrons.

Winn Pleads Innocent In Roseburg Court

Roseburg —UP—Forrest L. Winn, 67, a pilot in World War I, pleaded innocent in Douglas County Circuit Court Friday to second degree murder in connection with the fatal beating of Eugene D. Wood, 73, Roseburg cardroom operator.

Wood died after a cardroom fight Nov. 10 which police said resulted over a 10-cent bet.

Winn appeared in the courtroom of Circuit Judge Charles S. Woodrich, who overruled a defense demurrer contesting the sufficiency of the grand jury indictment.

Trial for Winn was set for early next session, which begins Jan. 14. Meanwhile, David Spencer, 32, was being held as a material witness.

Self-Taught Mining Student Made Own Ball Mill, Plant

Joe E. McCulley of 369 North Front st., Central Point, a self-taught student of mining and metallurgy, believes he has the smallest ball mill and ore concentrating plant in Oregon.

As small as it, the mill is no toy. McCulley built the machinery to concentrate ore for testing in his home laboratory. The machinery is patterned after that found in a full sized mill, and is just as efficient, recovering about 90 per cent of the valuable minerals from the raw ore.

McCulley tests ore for himself and other prospectors who cannot afford to send the large quantities of ore to a laboratory for "beneficiation" tests, which cost \$300 or more. In the case of more uncommon minerals such an investment would be highly speculative.

McCulley can test for the presence and quality of particular metals in an ore, according to federal law, but cannot give an evaluation of the ore's worth in dollars and cents.

Several mining operations in this area have gone ahead with the development of their claims on the strength of McCulley's findings. One of these is the Foothills tungsten operation and another is a chrome mine on the Illinois river owned by Enie Foster.

McCulley charges a small fee for testing ore samples, depending on the kind of metal in question. Tests vary, but all ore goes through the concentrating mill, which eliminates the worthless ore and brings about a richer concentration of metal.

Gold, platinum, copper, zinc, cobalt, tungsten, nickel and chrome are only a few of the metals, both common and rare, McCulley can test for in his "home-made" lab.

McCulley said the government is constantly on the lookout for strategic metals and that prospectors in the area should not overlook any ore because there is no visible evidence of the more common metals. Among the strategic metals are beryllium, cobalt, manganese, selenium and molybdenum.

McCulley urges amateur, or part-time prospectors, to bring in ore samples for testing. This area could easily produce a size-

able "load" of one of the strategic metals, he said, and the only way to identify most of these metals is by chemical analysis. McCulley will also help prospectors by telling them what the visible characteristics of certain metals are, as they are found in the ore.

To prepare the ore for the tiny mill, McCulley first puts the coarse rock into the "jaw crusher" to break it up into pea-sized chunks. It is then ground up into even smaller pieces by hand by the use of a mortar and pestle, and finally dirt is placed in the ball mill, which, by action of steel balls in a rotating iron vat, the ore is pulverized with water to a "sloppy" consistency. This mixture flows off, through a flume to the concentrating table.

The concentrating table is where the valuable ore is separated from the "tailings." Rapid vibration of the table causes the lighter substance to flow off the table, leaving the heavier material, the metals, in graduated grooves. The very top groove contains the concentrate, which is drawn off into a special container.

The next step is the color, or qualitative test, which involves chemical treatment of the concentrate. Depending on the test involved, action of chemicals indicate the presence of a metal by color, or other characteristics, of the resulting solution.

McCulley has his knowledge of metallurgical chemistry from the hundreds of books he has read on the subject. He has followed mining most of his life, but it was only within the last five years that he began studying the chemical process of analyzing ores, and working on machinery, for his laboratory and mill.

For the last two years students from Crater High school have visited the "lab" to see first hand how the ore is processed. Usually he gives students samples of pure chrome, tungsten, or gold as a souvenir.

McCulley still does a lot of prospecting himself, and in the past has discovered limited deposits of titanium, zirconium and mica. But he admits he can't cover all the ground in southern Oregon and welcomes ore



HOME-MADE BALL MILL—Joe McCulley of Central Point is shown above as he watches the action of his miniature ore processing machinery in the garage behind his home. McCulley built the machinery himself, which duplicates that found in large mills except that it is only one-sixth size. The tiny mill is used to concentrate ore to be tested in his home laboratory. The batch of ore in the picture was later found to contain tungsten of a quality that may be suitable to mine. Near McCulley's left hand is the ball mill which pulverizes the ore, and in the foreground is part of the concentrating table.

Silent Protest Gains Support in Country

Norwalk, Conn. —UP—A proposal for a three-minute silent protest against Soviet tyranny in Hungary Saturday showed signs of spreading throughout the nation.

Local officials reported that four states, Alaska and scores of cities have agreed to join in halting all activity for three minutes at noon Monday.

The governors of Maine, Virginia, South Carolina and Kansas have notified Norwalk officials their states will join the protest. Similar word was received from Detroit, Atlanta, Portland, Ore., and Sacramento, Calif., plus many smaller municipalities.

Telegrams were sent to all 48 governors, requesting cooperation. Gov. Abraham Ribicoff called upon all Connecticut communities to participate.

samples from other prospectors, with the hope that more mineral discoveries can be made that would be of benefit to the economy of the Rogue valley.

Officials Ask Asylum For Negro Students

Clinton, Tenn. —UP—Anderson county school officials have asked Knoxville, Tenn., authorities to provide asylum for nine Negro students who dropped out of integrated classes this week because of racial disturbances.

Anderson County School Supt. Frank Erwin Friday night asked the Knoxville school board to find room in a segregated school for Clinton High School Negroes who voluntarily request transfer.

Tom Johnston, chairman of the Knoxville city school board said the group would consider Irwin's proposal Dec. 10. Irwin said that none of the Negro students so far had asked to be transferred.

Before they were admitted to previously all-white Clinton high last August, the students attended Austin High at Knoxville, some 20 miles away.

The chairman of the Anderson County school board said Friday he would support Clinton High school's beleaguered principal in his efforts to maintain classroom discipline.



JAW CRUSHER—In order to break chunks of mineral bearing rock into smaller pieces for processing, Joe McCulley puts them through this jaw crusher he rigged up himself from odd pieces of machinery. Broken pieces fall into the pan beneath the receiving bin. The ore is ground still finer with a mortar and pestle before going into the ball mill which, when water is added, beats the rock into a sloppy mixture.

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to give some thought
to your
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