



ATTEND SCHOOLS — This week, seven Naval Research from the Medford area commenced six months of active duty at naval schools on the west coast. This group, in addition to four others already in training constitute a record enrollment from a single electronics division in the 13th Naval district under the new accelerated training program. The men are, left to right, Dick Orr, Medford; Dean Lamp, Marvin Hansen and Gary Johnson, Central Point; Markey James and David Sills, Medford. Giving them last minute instructions before their departure is Lt. R. A. Schuchard, commanding officer of the Medford Naval Reserve electronic training center. Not present when the picture was taken was James Lewis, Medford.

Coolant for Aluminum Engine Found by Chemical Companies

UPI Automotive Editor Detroit, (UPI) — Chemical companies have solved the problem of providing a coolant for cars with aluminum engines.

There has been little fanfare about the formulation of a new coolant solution for aluminum engines because the new formula was developed by Union Carbide Chemicals Co., which makes antifreeze for companies which market it under their own labels.

Research and development has resulted in an antifreeze formula providing first rate protection for aluminum as well as the other cooling system metals.

The Family Council

Editors Note: The Family Council consists of a judge, a psychiatrist, three clergymen, three editors and a women's editor. Each article is a summary of an actual case history. The Council reports on problems that have been dealt with by responsible agencies and counselors.

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even closer adult supervision than a younger child. It should be remembered, however, that these adolescent youngsters naturally have a longing for mature responsibility and should be encouraged in their yearning to grow up.

Must Follow Procedures

Although the chemical companies claim the old formula antifreezes provided adequate protection for aluminum engines, they admit it was necessary for a motorist with an aluminum engine to follow the recommended maintenance procedures to the letter to be completely safe.

Harriet R. — I am 13 and I have a younger sister, 11. My father has been ill recently and as a result my mother has had to go to work. My father is working now as well, but Mom is working to make up for some of the expenses accumulated while he was ill.

where there are younger children. Possibly her mother's friend treats her like one of her own youngsters — just one of the kids.

System Must Be Checked

Although the new solution will hold up for longer periods of time, the cooling system itself still has to be checked for leaks and worn out parts. "No matter how good a coolant is, an engine still can become overheated if the coolant is allowed to drain out through a leak," one engineer said.

I feel that I am well able to take care of the two of us. But Mother doesn't trust us to be on our own.

Perhaps it would help the situation if Mrs. L. R. would tell her friend that Harriet would like to be considered a young lady. Since she has a girl who will soon be Harriet's age, she may be quick to understand that when a girl enters her teens, she requires slightly different treatment than that accorded youngsters just below that important dividing line.

The Council: We think Mrs. L. R. is right in her belief that teen-agers or sub-teens need supervision these days.

At one time a 13-year-old girl was expected to undertake considerable responsibility for younger children, but today the teen years seem to be a danger period and a teen-ager may well require

There have been several unpleasant happenings involving teenagers in our neighborhood recently. These children came from respectable homes, yet they managed to get into trouble.

It might help Harriet to be given some special responsibility when she comes from school. Possibly she can do some of the marketing or take over the mending or other chores her mother usually handles. Perhaps she can give her mother's friend a hand with some job around the house. This will enable her to build up her status among the younger children.

The engineer pointed out that radiator hoses usually last only about two years and cooling system connections can work loose and begin to leak in less than six months.

The best part of the new formula is that, unlike the new "miracle" coolants, it will be marketed at about the same price as old formula coolants which were designed primarily to protect cast iron engines.

I also worry about the girls getting into squabbles. Harriet is very bossy and her sister resents this. Harriet doesn't like to take orders from anyone and I suspect that is why she wants to be on her own.

Harriet's "bossiness" of her younger sister may be just a substitute for doing something more adult. When she is given useful, important tasks, her sister will respect her more and there will be less resentment and squabbling.

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Air Force Studies Animals To Improve Military Gadgetry

By JOSEPH L. MYLER Washington—(UPI)—Birds, bees, beetles, not to mention scorpions, spiders, and snakes, may help to make the ballistic beast a little less stupid. They already have provided clues for improving hearing aids, computers, speedometers, and other electronic or mechanical devices. Eventually they may give man better understanding of himself.

The beetle's vision already has helped in development of a ground speed indicator. The bat's use of ultrasonic cries for "echo-location" is being studied for application to hearing aids. The sensitivity of the moth's ear, surpassing "that of our most advanced microphones," and the sonar system used by porpoises and whales also are of military and general scientific interest.

Practical applications are suggested by many other sensing devices used by animals. There are fish which locate other fish or objects by emitting pulses of low voltage electricity. Some are sensitive to a change in the electrical field around them of three-thousandths of a millionth of a volt per millimeter, "a fantastically minute alteration."

Rattlesnakes can detect temperature differences of a thousandth of a degree. Bees use polarized light as a flight guide, flies possess wing beat analyzers which control their speed, and the praying mantis has a built-in computer which enables it to spot, aim at, and capture a fly in the space of one-twentieth of a second.

Holzman cites many other examples of "the wisdom and wonder of animal life." By learning to understand them, he suggests, man may some day be able to build complex control devices possessing what no such devices possess today—"the element of judgment."

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Comm. Mary Margaret Mullen,
Sec. Campbell Rd., Medford,
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