

## Red Cross Safety Clinics

With the summer months approaching, education in water and small craft safety again becomes of great importance in our community, while first aid training continues to be essential year round.

To help meet the demand

for skilled volunteers a Safety Programs Clinic will be held at Blue Mountain Camp, Port Clinton, Pennsylvania, on May 17, 18, and 19. The Clinic will be under the supervision of Mr. William Royer, Clinic Director for Safety

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## Scientists Will Spray For Oak Leaf Infestation

This summer the lure of sex may prove the final undoing of a moth whose larvae have defoliated and destroyed over 70 million dollars worth of oak trees in Pennsylvania, New Jersey, New York, West Virginia, Michigan and Ohio.

Chemists and entomologists at The Pennsylvania State University will begin limited spraying of oak leaf roller infested areas in northwestern Pennsylvania with an artificially prepared component of the female moth's sexual attractant. The scientists expect the lure to confuse the male moths so that mating will not occur and the population will be depleted.

The spraying program is the first major field test of the artificial compound (cis-10-tetradecenyl acetate) recently synthesized for the first time by Lawrence Hendry, assistant professor of chemistry, graduate student John Jugovich, and Ralph O. Mumma of the department of entomology.

The approach promises to be safe and inexpensive. Hendry says the compound is non-toxic and highly specific, attracting only male oak leaf rollers and a few other insects of the same genus including some fruit tree pests. He estimates that it costs \$600 to synthesize 1,000 grams of the compound or enough to control the pest on 200 acres of forest land. In addition, he feels confident that industry will be able to mass produce the compound even more economically.

Small-scale preliminary field tests last summer showed the compound to be extraordinarily effective in very small amounts. Hendry says, "We caught over 6,000 moths in traps baited with one ten-millionth of a gram of the compound in just a few nights." Traps will also be used this summer although the emphasis will be on testing the compound as a confusant.

Programs, Lancaster County Chapter of the American Red Cross.

The Clinic is being held in a determined effort to curb, with first aid training, the mounting toll in deaths and injuries from accidents and is aimed at further "waterproofing America" through instruction in swimming, lifesaving, and small craft safety.

Courses to be given for certification include Standard First Aid and Personal Safety (lecture-demonstration method), Multimedia Standard First Aid (film sessions combined with workbooks and practice periods), Multimedia Instructor and Instructor Aide, Water Safety Aide, Senior Lifesaving, Basic Canoeing, Canoeing Instructor and Instructor Aide.

Review courses also will be given for Canoeing Instructor, Water Safety Instructor, and Senior Lifesaving.

The cost for this intensive safety education program will be \$25 per person which includes meals, snacks, lodging, insurance, text-

books, and all necessary materials.

The Clinic is part of the Red Cross Chapter's continuing community service programs. "Skilled volunteers are needed as instructors and aides to fill the many requests this department receives from various community organizations for assistance in swimming, small craft, and first aid programs," says Mrs. Ellen Saunders, Director of Safety Programs, Lancaster County Chapter.

Those wishing to register for the Clinic, and for more information regarding what to bring, transportation, prerequisites (minimum age, required courses needed, etc.) should contact the Safety Programs Office at the American Red Cross, Lancaster County Chapter, 430 West Orange Street, telephone - 299-5561.

### Iron Deficiencies

A 10-state federal study, done between 1968 and 1970, found significant iron deficiencies in some population groups. These may have been due to changes in diet and food preparation, such as use of non-iron cooking surfaces

Cautiously optimistic, Hendry says, "we've got several things going for us in this program." For example, the males apparently don't use sight to locate females—only the attractant. "In addition, since the adult males are present for only three or four days, we only have to spray for a very short time and the compound, a very stable one, won't degrade in water in case it rains."

This summer's testing program represents the culmination of over three years of research during which Hendry, Mumma and their associates obtained the first samples of the attractant from moths caught in the field isolated and identified the active component, and then duplicated the substance in the laboratory.

Hendry is still unsure of the role of the rest of the more than 20 compounds in the natural attractant mixture but suspects one of being a sexual excitant. Efforts to identify and duplicate the excitant are still underway since he believes it may offer yet another route to oak leaf roller control.

The current oak leaf roller infestation has been called "the worst disaster that Pennsylvania forests have experienced in this century." Hardest hit have been Centre, Clinton, and Lycoming counties where over a quarter million acres of oak forest has been defoliated.

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