

Oppenheimer Explains Parts, Forces of Atom

There are three types of sub-nuclear particles, J. Robert Oppenheimer said last night in his second Condon lecture.

The first type is the nucleons, which are the protons and neutrons that make up the nucleus of the atom.

The second and heaviest type is the hyperons which are a complex of energy and nuclear matter. Mesons are the third type of particle and are one of the decay products of hyperons.

Three kinds of inter-reactions affect these particles, he said. Strong reactions preserve one of the particles. Weak reactions, or nuclear decay, do not preserve any of the original particles.

Third is the electromagnetic reaction which is between particles with electric charge.

Many things remain to be explained, Oppenheimer said. We must try to see if we can account in a quantitative way for variances in size and life times of these particles.

"We would like to know why these particles exist, and why

there is a limit to their number and action," he said.

"We hope that a rational order of the world will emerge," he said. "We need to take only a very small step to reach this goal."

Scientists have two general views on nuclear physics, Oppenheimer said.

The first is the continuum theory, or opposite of the atomic theory. This view says that all sub-nuclear particles are really reducible to one simple particle, or sub-strain.

The second theory is that there is a finite array of particles within the atom.

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Army Cadets Get Awards

In ceremonies Thursday afternoon at 1 p.m., commendation awards for winter term were presented to nine freshman and sophomore Army ROTC students. The presentations were made by Marcia Dutcher Jones, Little Colonel; Charlotte Britts, Alma Owen and Diane David, Little Majors.

Military Science I commendation award winners were Richard Johnson, Robert Easton, Norman Cole, Jack Weicks, George Okamoto and John Flaxel.

Military Science II commendation award winners were Benjamin Kahalekulu, William Boyle, Jr., and Robert Campbell.

Religious Notes

(Continued from page six)

with Barbara Cook in charge. Sunday morning worship will be led by Sonia Lander, and the Bible study class by Victor P. Morris, dean of the school of business.

Students will meet at Christian House, 736 E. 16th, at 5:30 p.m. Sunday and will go to Westminster House to hear the Rev. T. W. Manson, religious leader from Manchester, England.

The regular Sunday evening fireside will be held at 9 p.m. at Christian House.

Married students will hold their monthly potluck dinner at 6:15 p.m. Monday.

The Older Students' club will meet for a potluck dinner from 5:30 to 7 p.m. Tuesday.

The executive council will meet at noon Wednesday.

House devotions are held regularly at 10 p.m. Thursdays.

Two University of Oregon students were elected to office at the recent regional Disciples Student Fellowship conference. They are Bob Randall, regional president, and June Fulco, secretary.

Christian Science

The Christian Science organization for University students will meet at 7:30 p.m. Tuesday on the first floor of Gerlinger hall.

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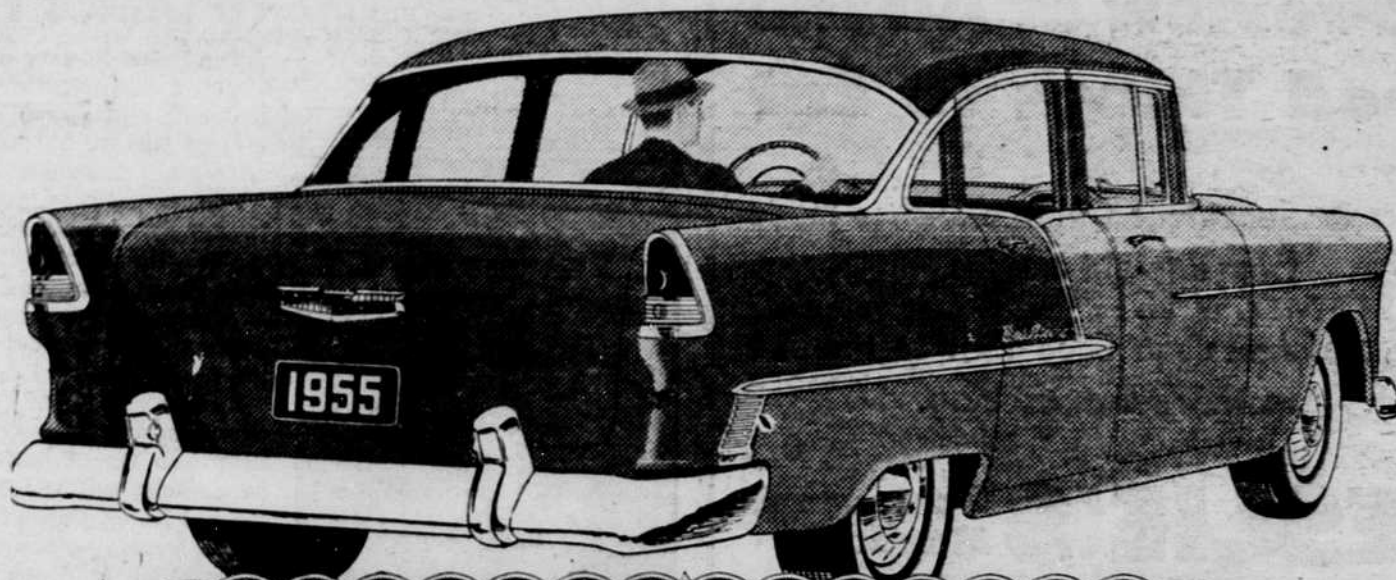
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