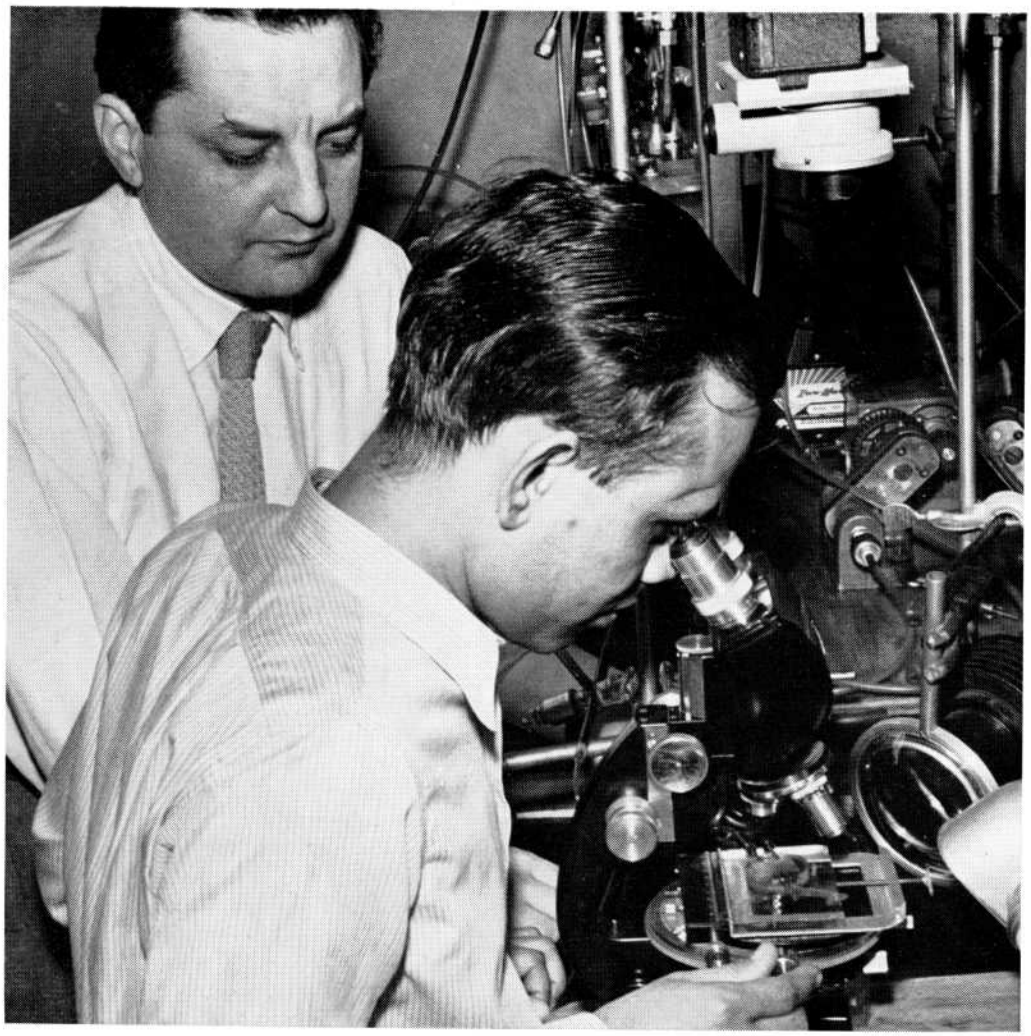


Dr. Alfred Chatenever associate professor of petroleum engineering, and student assistant are doing research on the physical behavior of fluids in porous media. Findings should prove useful for petroleum reclamation.

Research Today for a Better Tomorrow

EMPLOYING THE PURE RESEARCH OF THE SCIENTIST, O.U. ENGINEERS ARE BUSY WITH PRACTICAL RESEARCH, TRYING TO FIND A WAY TO TRANSLATE INITIAL FINDINGS INTO PRACTICAL PRODUCTS AND MEANS OF PRODUCTION.

THE PROFESSOR, confronted with a maze of gauges, tubing and recording instruments, said, "Now, what I'm trying to find is a new way . . ."

The graduate student, proudly displaying special equipment that he had constructed himself, said, "There has been study on this problem before, but I'm trying to find a better way . . ."

Whether the new way and the better way will be the result no one knows, but the faculty and students of the College of Engineering are engaged in ceaseless research—research they hope will lead to more practical and efficient methods of production in many fields of engineering.

One professor is searching for a way of solving the waste disposal problem; another is working on the effects of vibration on various metals; another is studying the behavior of fluids in porous media for the possible reclamation of petroleum.

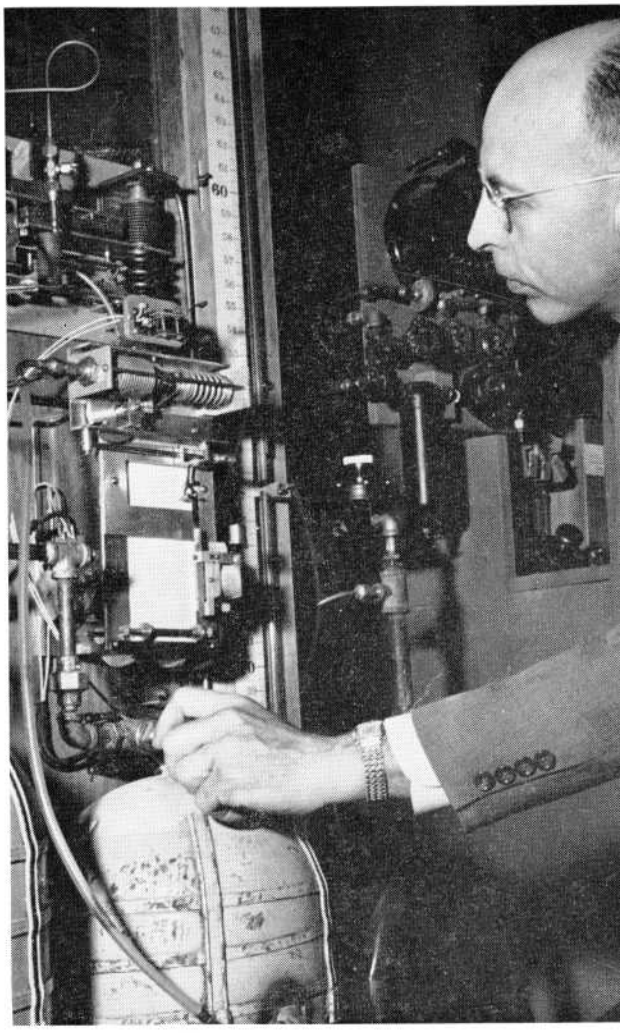
One student is studying the correlation between water permeabilities and amount of clay in oil field sands; another is studying streaming potential through different formations; another is studying the combustion products of a new type of gas burner for possible commercial methods of producing aldehydes and alcohols.

Some of the faculty members are doing their research on grants. A few of the graduate students are conducting their research through fellowships from industry.

All hope to find a new method or application that will produce better things for better living through engineering.

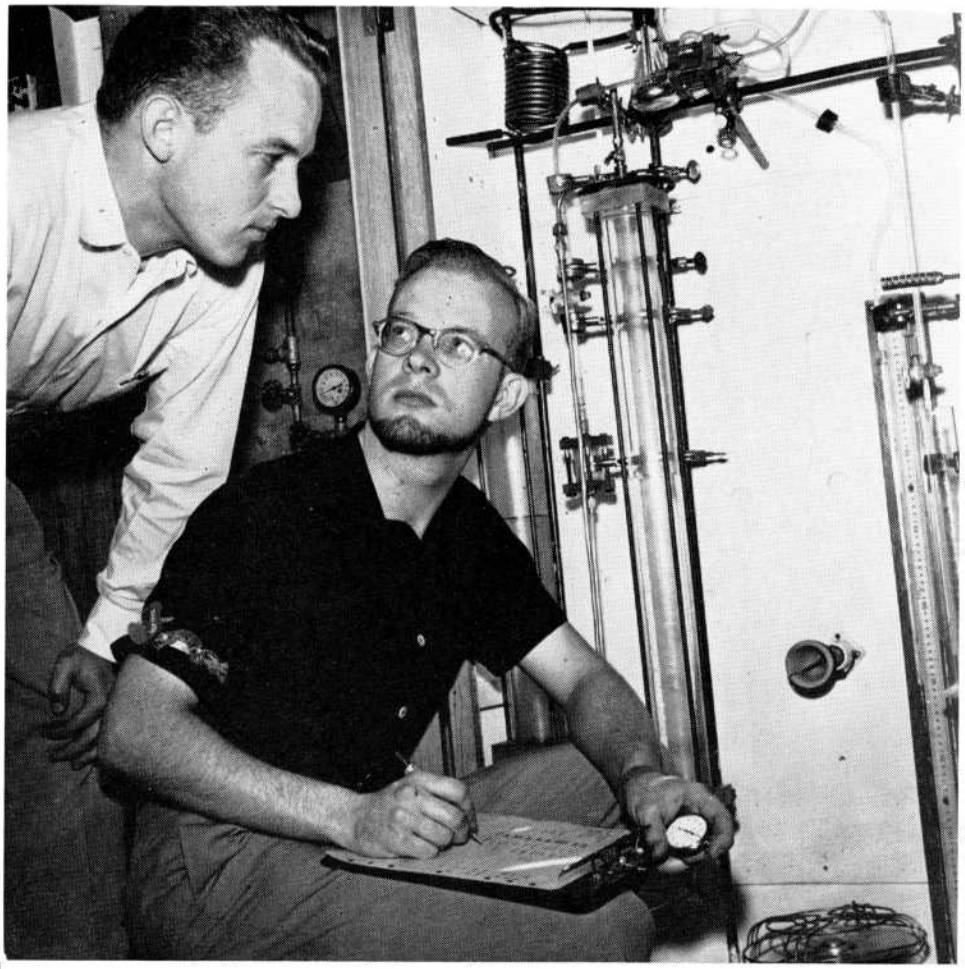
(For a listing of organizations and companies who have contributed fellowships and scholarships to the various schools of the College of Engineering, please turn to page 22.)

George W. Reid, associate professor of sanitary engineering and public health, is working on the problem of waste disposal. The apparatus at the right is his invention . . . a device to convert sewage wastes into food for fish, animals, by providing the conditions necessary for growth of algae, common fish food.

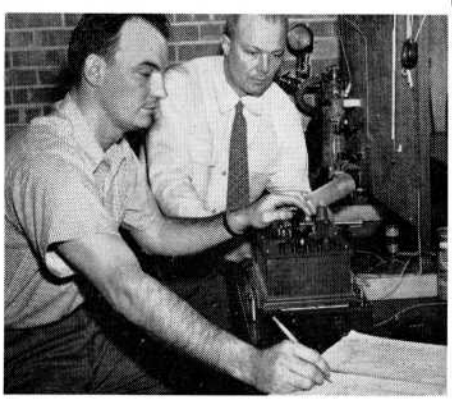


William L. Cory, associate professor of mechanics and metallurgy, has constructed an apparatus designed to supply "physical verification of mathematical equations of automatic controls." He uses the set-up for research, instruction.

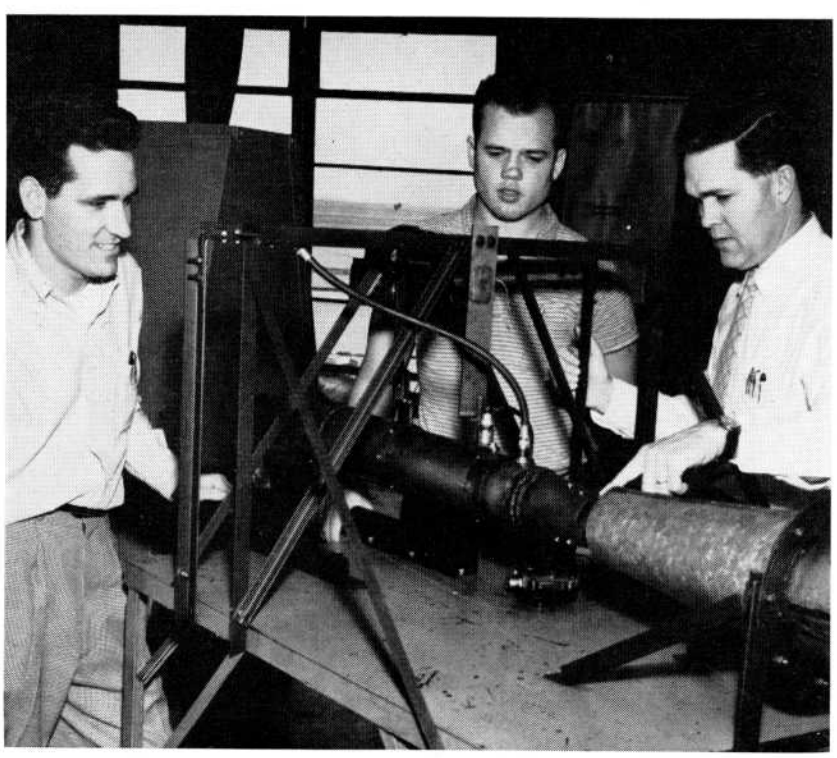
James O. Melton, assistant professor of mechanics and engineering metallurgy, is conducting research on the effect of ultrasonic vibrations on materials. This field of research is not new, but findings may produce important answers.



Alan Griffith, graduate student in petroleum engineering, is conducting research on the correlation between water permeabilities and amount of clay in oil field sands. Stan Livesay, another graduate student, looks on.



Graduate student Kirby Schenck is conducting research on streaming potential through different formations. Here he studies shale. Observing work is Arthur W. McCray, acting chairman of the School of Petroleum Engineering.



Bruce V. Ketcham, chairman of the School of Aeronautical Engineering, and two students examine model jet engine which the school built for experimentation with ram jet power plants. Area of research may make valuable contribution to jet-age problems.