

XE128.0626566
6-1-66

News Release

GRADUATE RESEARCH CENTER OF THE SOUTHWEST

2400 NORTH ARMSTRONG PARKWAY, RICHARDSON, TEXAS

P. O. Box 30365, Dallas, Texas 75230



AD1-1471
Extension 25

Al Mitchell
Director of Information

RELEASE ON RECEIPT

ARMY RESEARCH OFFICE ASSIGNS EARTH-MANTLE
STUDIES TASK TO GRC'S GEOSCIENCES DIVISION

DALLAS--

Earth-mantle composition studies for the U. S. Army will be conducted at the Graduate Research Center of the Southwest in a new one-year program.

Principal investigators are Asst. Prof. Ian D. MacGregor and Research Associate James L. Carter, both of the GRC Geosciences division. Full title of the program is "Studies of the Nature and Composition of the Earth's Upper Mantle Using Petrographic, Analytical, and Synthetic Techniques."

GRC apparatus for making synthetic mineral combinations similar to natural rocks includes piston presses capable of producing 50,000 atmospheres' pressure at maximum temperatures of 2,500 degrees (Centigrade). Conditions required to form the small synthetic samples offer comparisons to the heats and pressures that formed natural rock in the mantle.

The U. S. Army Research Office (Durham) has requested the research, and has granted \$19,093 for the program.