Departments of Chemistry and Earth Sciences
Revelle College
University of California, San Diego
La Jolla, California

FACILITY FORM 602

N65 89343
(ACCESSION NUMBER)

(THRU)

2
(PAGES)

None
(CODE)

CR 67402
(NASA CR OR TMX OR AD NUMBER)

(CATEGORY)

To: The National Aeronautics and Space Administration

2nd semi-annual progress report on research carried out under Grant No. NsG-701, for the period January 1, to June 30, 1965.

During the period January 1, 1965 to June 30, 1965, the following work was done:

1. The work on the Rb-Sr ages of chondrules and carbonaceous chondrites was completed and the results sent for publication in J. Geophys. Research. This is scheduled to appear in November or December of this year, 25 copies of the preprint were sent to NASA on March 16, 1965. The work on single chondrules is being extended to study if there are significant age differences between chondrules and the matrix of meteorites.

2. The work on Cr isotopes in meteorites was aimed at understanding the nuclear history in the early solar system. This work has been completed now and the paper was sent for publication in the J. Geophys. Research and is scheduled to be published on September 1, 1965. 20 copies of the preprint were sent to NASA on April 26, 1965.

3. Work is now in progress on abundance and isotopic composition of Zr in meteorites. As mentioned in the first semi-annual report, this work is important with reference to theories of nucleosynthesis and abundances of elements. About 10 meteorites have been studied so far, and it is expected to extend this work to cover sufficient and representative numbers of samples from each class of meteorites.

V. Rama Murthy
Principal Investigator