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*Dear Reinhardt  
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RADIOACTIVITY RESEARCH CENTER REPORT

January 1, 1962 to June 30, 1963

K. G. Scott, Ph.D., Director

I. Service

The use of radionuclides and the service offered by the Radioactivity Research Center continues to increase on this campus; 1,230 isotope shipments were received during the reporting period representing a two-fold increase over the previous eighteen months. This involved the handling of 18,005 Curies of labelled compounds and isotopes and 268.5 Curies of Tritium. This is a reduction from the total amount in curies received in the previous period and represents a trend toward more expensive and exotic radiochemicals ordered in smaller quantity, better delivery by manufacturers and less decay prior to use.

The isotopes mentioned above were used in research in 236 projects described in this report and as routine diagnostic tests and therapy. Such projects place a heavy demand upon the consultative time of the academic staff and upon the available equipment and technical staff. The work load upon the liquid scintillation and gamma ray spectrometers has been especially heavy and 101,305 samples were assayed for one or more radionuclides during the past eighteen months. Additional space and personnel are necessary if we are to continue to serve this campus adequately.

II Instruction in Bioradiology and Related Subjects

The teaching of medical students, residents and others, employs the combined facilities of the Radioactivity Research Center and Radiology and in some instances, also receives financial support from the School of Pharmacy and the Department of Emergency Medicine. Fifty freshmen medical students enrolled in Emergency Medicine 121-B and thirty six continued the course in the sophomore year to complete the laboratory exercises and qualify for certification. Twelve students, mostly at the graduate level in the basic sciences enrolled in Bioradiology 125. Three evening courses were offered through Continuing Education in order to offer to those in outlying areas, the opportunity to learn isotope technics. The first, a series of five 2-hour lectures had an enrollment of over one hundred and fifty. This was followed by a fall and spring laboratory work shop comprised of thirteen 2-hour sessions leading to Atomic Energy Commission or California State certification following a comprehensive examination. The course was over subscribed (40) with students coming from as far as Redding and Modesto.

A one month full time course in isotope fundamentals is also offered and is primarily taken by the resident staff but also by research fellows, visiting faculty and others enrolling in Continuing Education. A large number of these from foreign countries return to establish isotope research programs in their home land. Fifty six M.D.'s or Ph.D.'s and sixteen technicians took this course.

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