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May 13, 1948

Miss Irene Hofmeister
Extension Representative
University of California Extension
Division
Berkeley 4 California

Dear Miss Hofmeister:

The following is an outline describing the course in
Radiation Measurements:

This course is intended to serve as an introduction into measuring techniques in the field of radioactivity, and directed mainly to those interested in biological tracer work, biological effects of radiation, and in health protection. The lectures will include a discussion of the interaction of radiations with matter, the principles of the measuring instruments used in the determination of the radiations, the description of the basic electronic circuits in use and introduction to the statistical errors involved in the measurement of radioactivity. Also a detailed discussion of the determination of tissue dose will be presented.

The laboratory course would provide the students with first-hand acquaintance with some modern measuring instruments. They will have the opportunity to do counting of alpha beta, gamma rays, and neutrons. They will also work with electroscopes and ionization chambers and study the techniques of autoradiography, of health monitoring and of the preparation of biological sample material.

Trusting that the above meets with your approval.

Sincerely yours,

Cornelius A. Tobias
Assistant Professor of
Medical Physics

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