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Dr. Bowers-145

UNIVERSITY OF CALIFORNIA

RADIATION LABORATORY
BERKELEY 4, CALIFORNIA

July 29, 1948

Dr. John Z. Bowers
Division of Biology and Medicine
U. S. Atomic Energy Commission
Washington 25, D. C.

Dear John:

The course that I spoke to you about a few weeks ago has been postponed due to the fact that the Army suddenly changed its mind. The basis for this apparently was that the draft made it necessary for the medical officers from this Corps Area to devote themselves to the examination of the expected flood of enlistees and draftees.

I discussed this matter in considerable detail with the various University officials and we have come out with the following tentative idea, that is to give a one weeks intensive series of lectures on or about December 1, 1948. This course would presumably emphasize more strongly the clinical and research applications than the enclosed tentative program which I had drawn up with a primary view of making it fit the interests of the medical staff of the Armed Forces. I have told the Extension Division of the Medical School that I would not round up the lecturers and organize the course unless there were at least 80 qualified medical men interested in taking this one weeks course. I don't think it is fair to those who are engaged in the research and administrative activities associated with the medical aspects of the Atomic Energy program to ask them to give lectures unless their efforts will reach a significantly large group of individuals.

In this case, as has happened several times in the past, the people concerned within the University about this matter have placed the problem in my lap and will follow along pretty much without question with any decision or suggestions that I may decide to make. In view of this situation, I should like to get your opinions and those of Shields on how the Medical School and the University can accomplish the most with such a course. A few points come to mind, namely making this course available to members of the Armed Forces in other areas of the country, staff members from the several AEC installations, and possibly one or more people from the U. S. Public Health Service. I think the people in the Medical School will be perfectly satisfied to limit this to interested and qualified physicians from the metropolitan area of northern California. However, since they are willing to place at my disposal all of the necessary facilities, I should like to know if there is any way in which a larger service may be performed.

Sincerely yours,

Joe

Joseph G. Hamilton, M. D.

JGH:jr

MEDICAL ASPECTS OF ATOMIC EXPLOSION

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 to 10:00	Introduction and Mission of Course	Summary of Nuclear and Atomic Structure	Public Health Aspects of the Atomic Bomb	Evaluation of the Five Atomic Bomb Detonations	
10:00 to 11:00	Fundamentals of Atomic Structure	Biological Effects of Ionizing Radiation	Fundamentals of Radiation Pathology	Essentials of Instrumentation	Treatment and Laboratory Diagnosis of Radiation Illness
11:00 to 12:00	Radioactivity	Medical Aspects of Atomic Bombings and Radiation Illness	Gross and Microscopic Ptahology at Hiroshima and Nagasaki		Protective Measurements
12:00 to 1:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
1:00 to 2:00	MOVIES	MOVIES	MOVIES	MOVIES	Physical Aspects of Radiation
2:00 to 3:00	Fission and Chain Reaction. Detonation of an Atomic Bomb	Radiological Hazards of the Bikini Tests & Operational Problems	Medical Research at Operations Crossroads	Hematology of Bikini Animals	
3:00 to 4:00	Group Conference	Group Conference	Group Conference	Hemorrhagic Diathesis Associated with Radiation Illness	

TENTATIVE DRAFT

COURSE IN THE MEDICAL ASPECTS OF NUCLEAR ENERGY

University of California Medical School
San Francisco
August 30th through September 3rd
1948
(Organized and presented by Medical Extension (University Extension) for a group of Army Medical Officers)

Chairman of Program: Joseph G. Hamilton, B.S., M.D.
Associate Professor of Experimental Medicine and Radiology,
University of California Medical School

MONDAY

9-10 a.m. — INTRODUCTION AND MISSION OF COURSE
Lecturer to be designated - preferably from U. S. Army

10-11 — ATOMIC AND NUCLEAR STRUCTURE
Dr. Edwin McMillan, Professor of Physics
University of California

11-12 noon — RADIOACTIVITY
Dr. McMillan

1-2 p.m. — THE PRINCIPLES OF RADIO CHEMISTRY
Dr. Isadore Perlman, Associate Professor of Chemistry in the Radiation Laboratory
University of California

2-3 — FISSION AND CHAIN REACTION. THE PILE AND THE BOMB
Dr. Luis W. Alvarez, Professor of Physics
University of California

TUESDAY

9-11 a.m. — THE PRINCIPLES OF THE APPLICATIONS OF RADIOACTIVE TRACERS AND A DETAILED DISCUSSION OF THE THREE MAJOR TECHNIQUES
Dr. Joseph G. Hamilton

11-12 noon — BIOLOGICAL EFFECTS OF IONIZING RADIATION - Acute and Chronic
Dr. Robert S. Stone, Professor of Radiology
University of California Medical School

1-2 p.m. — Continuation of lecture above, Dr. Stone

2-3 — CLINICAL APPLICATIONS OF ARTIFICIAL RADIOACTIVITY: Phosphorus
Dr. John H. Lawrence, ~~Associate~~ Professor of ~~Experimental~~ Medicine ~~& Radiology~~,
University of California ~~Medical School~~ at Los Angeles

3-4 — CLINICAL APPLICATIONS OF ARTIFICIAL RADIOACTIVITY: Iodine
Dr. Earl R. Miller, Associate Professor of Radiology
University of California Medical School

9-11 a.m. — DETECTION AND MONITORING INSTRUMENTS EMPLOYED FOR HEALTH PROTECTION
Dr. Wm. H. Sullivan, Technical Director, Naval Radiological Laboratory
San Francisco Naval Shipyard

11-12 noon — RADIOLOGICAL HAZARDS OF THE BIKINI TESTS AND THEIR CONTROL
Dr. Stafford L. Warren, Professor of Biophysics
University of California at Los Angeles

1-2 p.m. — MOVIES OF BIKINI TESTS

2-3 — RESULTS OF BIOLOGICAL EXPERIMENTS MADE AT BIKINI
Dr. Shields Warren, Director of Medicine and Biology
Atomic Energy Commission, Washington, D.C.

3-4 — GROSS AND MICROSCOPIC PATHOLOGY AT HIROSHIMA AND NAKASAKI
Dr. Shields Warren

THURSDAY

9-11 a.m. — PUBLIC HEATH ASPECTS OF NUCLEAR ENERGY
Colonel James P. Cooney, M.C., U.S. Army
Armed Forces Special Weapon Project
Washington D.C.

11-12 noon — DIAGNOSIS AND TREATMENT OF ACUTE AND CHRONIC RADIATION ILLNESS
Dr. Austin Brues, Director of Biology Division
Argonne National Laboratories, Chicago

1-2 p.m. — Continuation of lecture above, Dr. Brues

2-4 — THE METABOLIC PROPERTIES OF THE FISSION PRODUCTS AND PLUTONIUM
Dr. Hamilton

FRIDAY

9-11 a.m. — THE ACUTE AND CHRONIC EFFECTS OF INTERNAL RADIOACTIVE POISONS
Dr. Austin Brues

11-12 noon — BIOLOGICAL BASIS OF TOLERANCE TO RADIATION AND ITS APPLICATION TO THE PLUTONIUM PROJECT AT HANFORD
Dr. Simeon Cantril, Swedish Tumor Hospital, Seattle, Wash.

1-2 p.m. — GENETIC EFFECTS OF IONIZING RADIATION
Dr. Curt Stern, Professor of Zoology
University of California

2-4 — Conference period to be held by available members of Teaching Staff