

BUILDING 2001
14th & Ferry St
Oakland Army Base
Oakland, California

REPOSITORY

Los Alamos NATLAB

COLLECTION

15 April 1946

BOX No.

TR 5787

FOLDER

Operations Crossroads

BEST COPY AVAILABLE

My dear James:

Appended you will find a double schedule of lectures such as we hope will be presented while enroute for the atom bomb testings. These lectures would be given to two different groups, since there will be no lecture hall large enough to accommodate all of those who are to participate. The groups would number 150 - 250.


These schedules are only tentative. However, we hope they will serve to establish definite schedules so that there will be no uncertainty nor confusion during the relatively short period when we must acquaint everyone as to the general character of the tests and the individual responsibilities.

You will note that we have listed you for one or more lectures. Should you prefer to change the title of your lecture, would you kindly drop me word to that effect. Furthermore, if you would be willing to give additional lectures, we would gladly arrange for these - especially for stimulation and continuing instruction after arrival at the Bikini atoll. More than one hundred of those who are to participate as monitors, unfortunately, have had no experience with radiation. So please record on the listing of miscellaneous lectures any topics in which you are interested and about which you would be willing to discuss.

A lantern slide projector will be available and there will be a blackboard in each lecture room. Otherwise, it would be appreciated if you could bring along any small items for demonstration.

Please realize my sincere appreciation for your "stalwart" cooperation. I am sure that everyone will benefit greatly by your interests.

Very sincerely,



STAFFORD L. WARREN
Col, M.C.

Chief, Radiological Safety Section.

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ENTATIVE LECTURE SCHEDULE -

During the evening of the first day, the following lectures are planned; the descriptions to be supplemented by movie projection or lantern slides:

<u>Subject</u>	<u>Speaker</u>
Detonation at Trinity	Dr Louis Hemplemann
Detonation at Hiroshima	Dr James Nolan
Detonation at Nagasaki	Col Stafford L. Warren

Lectures to be conducted after arrival at Bikini:

Global Air Movements	Col B. Holtzman
Modern Air Predictions	Col B. Holtzman
Bikini Water Currents	Cmdr Roger Rivelle
Gas Detection and Safety Equipment	Lt Cmdr J. J. McCoy
Scientific Forecasts for Test Able	Dr Joseph Hirschfelder
Scientific Forecasts for Test Baker	Dr J. McGee
The Role of the Industrialist in the Production of the Atom Bomb	Dr Charles Thomas
The Adaptation of Atom Bomb Instruments to the Oil Industry	Dr Henry Paul
The Role of Atomic Scientists in International Policies	Dr E. R. Coveyou (Rep from Evaluation Com.)
Atomic Energy Controls as Visioned by Congress	
Distribution and Excretion of Radioactive Products	Dr Wright Langham
Dust Hazards	Dr J. Sterner
Air Measurements vs Tissue Measurements	Mr. J. E. Victoreen
Hematopoietic Changes Resulting from T Dusts	Dr Adolph Kemmer
Chemistry of Fission Products	Dr Kenneth Scott
Biological Aspects of Fission Products	Dr Joseph Hamilton

Please record below additional suggestions:

Will the following please record subjects about which they will be prepared to speak:

Dr Kenneth Cole
 Dr Andrew Dewdy
 Dr G. Failla
 Dr J. Lawrence
 Dr Eugene Prongergrass
 Dr C. L. Prosser
 Prof F. R. Shanka

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TR 5782

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Operation Crossroads

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GRP II	8:10 - 9:00	9:10 - 10:00	10:10 - 11:00	11:10 - 12:00	2:10 - 3:00	3:10 - 4:00
1st Day	General Orientation Col S. L. Warren	General Orientation Col S. L. Warren	General Orientation Dr Geo Lyon	General Orientation Dr Geo Lyon	Operations, Air CROSSROADS Lt Col J. W. Tribbet	Operations, Surface CROSSROADS Dr Geo Lyon
2nd Day	Electrical Circuits: Magnetism, Inductance, Capacitance, etc. Dr Carl Brostrup Mr Francis Bishop	Electromagnetic Radia- tion Dr Wm Brile	Electronics Dr O. C. Landsverk	Matter and Energy - Forces and Acceler- ations Mr Herbert Formgen	Sound and Supersonic Waves Dr Joe Herschfelder Dr John McGee	Blast Effects, Structures and Strains Dr James Nolan
3rd Day	Interchange of Matter and Energy Dr Rebley Evans	Atomic Structures Dr Gerhard Dessoer	Nuclear Reactions, Fission Dr Gerhard Dessoer	Isotope Production and Separations Dr R. J. Overstreet	Radio-Chemistry Dr Louis Jacobson	Particle Acceler- ation Techniques Dr Wm Brile
4th Day	Biological Effects of Alpha Particles in Tissues Dr K. Z. Morgan	Biological Effects of Radiation Mr Francis Bishop	Toxicology of Fission Products Dr Joseph Hamilton	Inhalation and In- gestion Hazards Dr Harold Hodge Dr George Suter	Latent Cancer Hazards Dr A. Bruos	Genetic Mal-Effects Lt Cmdr A Eschenbrun- ner Dr Curt Stern
5th Day	Instruments, General Demonstration Capt D. L. Collins Mr W. D. Schafer	Instruments: CROSSROADS Applications Dr Gerhard Dessoer	Instrument Theory and Circuits Dr Gerhard Dessoer	Instrument Theory and Circuits Dr Gerhard Dessoer	Instrument Operations Radio-Conversion Phonetics (Small Group Instruction)	Instrument Operations Radio-Conversion Phonetics (Small Group Instruction)
6th Day	Plant Contamination and Decontamination Capt Fred Bryan	Protectional Methods in Plants Dr Louis Hempelmann	Photo-Chemical Re- actions Dr John Benner Dr Gerhard Dessoer	Film Construction and Features and Density Dr Gerhard Dessoer	Instrument Maintenance and Repair (Small Group Instruction) Capt D. L. Collins Mr R. J. Smith	Instrument Maintenance and Repair (Small Group Instruction) Mr W. D. Schafer Mr G. S. Pawlicki

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BOX No TR 5787

FOLDER Operation CrossRoads

GRP II	8:10 - 9:00	9:10 - 10:00	10:10 - 11:00	11:10 - 12:00	2:10 - 3:00	3:10 - 4:00
7th Day	Film Distributions Dr Herbert Seaville	Film Processing and Calibration Dr O. C. Landsverk	Tissue Chemistry Dr Joseph Hamilton	Water and Soil Chemistry Dr R. J. Overstreet Dr Louis Jacobsen	Instrument Maintenance and Repair (Small Group Instruction)	
8th Day	Theory of Damage Control and Blast Effects Capt Oscar Schneider	Toxic Gas Effects LtCmdr A.J. Bankhead	Safety Practices, General Dr Geo Lyon	Safety Practices Dr J. Sterner Dr Adolph Kammer	Seminars Capt D. L. Collins Mr R. J. Smith Mr W. D. Schafer Mr G. S. Pawlicki Dr Wm Bale Prof F. R. Shenka	
9th Day	Sea Life, General Dr Lauren Donaldson Dr A. Melander	Radio-Pathology of Sea Life Dr A. Melander	Oceanography Surface Changes Cmdr Roger Reville	Oceanography Diffusion and Mixing Cmdr Roger Reville Dr Lauren Donaldson	Seminars	
10th Day	Induced Radiation in Operations CROSSROADS Dr Geo Lyon	Flash Blindness vs Retinal Hemorrhage Dr Louis Hempelmann	Dynamic Oceanography Dr Lauren Donaldson Dr A. Melander	Turbulent Diffusion Dr J. McGee	Instrument Maintenance and Repair (Small Group Instruction)	
11th Day	Particle Diffusion and Mixing Maj Wm Stone	Erection of Wind Diagrams Col S. L. Warren	The Role of the Industrialist in the Production of the A Bomb Dr Charles Thomas	Health Measures in the Tropics Dr Elwood Barnes, USN Dr Thomas Hennessy, USN	Seminars	
12th Day						

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 BOX No TR 5287
 FOLDER Operation Crossroads

GFP	8:10 - 9:00	9:10 - 10:00	10:10 - 11:00	11:10 - 12:00	2:10 - 3:00	3:10 - 4:00
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1st Day	General Orientation Col S. L. Warren	The Basic Plan of the Test - General Schedule Col S. L. Warren	General Plan of Protection, Appendix B Dr Geo Lyon	Coordination of Radiation Protection Dr Geo Lyon	Operations, Air Lt Col J. M. Talbot	Operations, Surface Dr Geo Lyon
2nd Day	Matter and Energy; Forces and Accelerations Dr Herbert Lermagen	Electrical circuits, magnetism, inductance, capacitance, etc. Dr Carl Braestrup Dr Francis Bishop	Electromagnetic Radiations Dr Wm Cole	Electronics Dr O. C. Landsverk	Blast Effects, Structures and Strains Dr James Nolan	Sound and Supersonic Waves Dr Joe Herschfelder
3rd Day	Atomic Structures Dr Gerhard Dessauer	Interchangeability of Matter and Energy Dr Robley Evans	Nuclear Reactions, Fission Dr Gerhard Dessauer	Particle Acceleration Methods Dr Wm Cole	Radio Chemistry Dr Louis Jacobson	Isotope Productions and Separations Dr R. J. Overstreet
4th Day	Biological Effects of Radiation Dr Francis Bishop	Biological Effects of Alpha Particles in Tissues Dr K. Z. Morgan	Inhalation and Ingestion Hazards Dr Harold Hodge Dr George Sutern	Toxicology of Fission Products Dr Joseph Hamilton	Genetic Mal-effects (Seminar) Lt Cmdr A. Eschenbrenner Dr Carl Stern	Latent Cancer Hazards Dr A. Bruce
5th Day	Instruments, General Demonstration Capt D. L. Collins Mr W. D. Schaffer	Instruments, CROSSROADS Applications Dr Gerhard Dessauer	Instruments Theory and Circuits Dr Gerhard Dessauer		Instruments, Operations Phonetics (Small Group Instruction)	Radio - Conversations
6th Day	Protectional Methods in Plants Dr Louis Hemplemann	Plant Contamination and Decontamination Capt Fred Bryan	Film Construction Features and Density Dr Gerhard Dessauer	Photo-Chemical Reactions. Dr John Bonner Dr Gerhard Dessauer	Instrument Maintenance and Repair (Small Group Instruction) Capt D. L. Collins Mr. R. J. Smith	Mr W. D. Schaffer Mr G. S. Pawlicki

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FOLDER Operation Crossroads

GRP II	8:10 - 9:00	9:10 - 10:00	10:10 - 11:00	11:10 - 12:00	2:10 - 3:00	3:10 - 4:00
7th Day	Film Processing and Calibration. Dr O. C. Landsverk	Film Distributions Dr Herbert Seoville	Water and Soil Radio Chemistry Dr R. J. Overstreet Dr Louis Jacobson	Tissue Path-Chemistry Dr Joseph Hamilton	Instruments Maintenance and Repair (Small Group Instruction)	
8th Day	Safety Practices General Dr Geo Lyon	Safety Practices Dr James Sterner Dr Adolph Kammer	Theory of Damage Control and Blast Effects Capt Oscar Schneider	Toxic Gas Effects Lt Comdr A. J. Bankhead	Seminars Capt D. L. Collins Mr R. J. Smith Mr. W. D. Schriber Prof E. R. Shanks	Mr G. S. Pawlicki Dr Wm Beale
9th Day	Oceanography Surface Changes Cmdr Roger Reville	Oceanography Diffusion and Mixing. Cmdr Roger Reville Dr Lauren Donaldson	Sea Life, General Dr Lauren Donaldson Dr Arthur Wielander	Radio Pathology of Sea Life Dr Arthur Wielander	Seminars	
10th Day	Dynamic Oceanography Dr. Lauren Donaldson Dr. Arthur Wielander	Turbulent Diffusion Dr J. McGee	Induced Radiation on Operations CROSSROADS Dr Geo Lyon	Flash Blindness vs Retinal hemorrhage Dr Louis Hemplemann	Instruments Maintenance and Repair (Small Group Instruction)	
11th Day	Erection of Wind Diagrams Col S. L. Warren	Health Measures in the Tropics Dr Elwood Barnes, USN Dr Thomas Hennessy "	Particle Diffusions and Mixing Maj Wm Stone	The Role of the In- dustrialist in the Production of the A Bomb Dr Charles Thomas	Seminars	
12th Day						

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