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Collection	<i>Division of Biology Medicine</i>
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PROGRAM

Friday Morning - Room O-475, Medical School

- 9:30 Greeting by Dr. Donald Anderson, Dean, School of Medicine and Dentistry
- 9:45 Brief descriptions of the research programs of the Project 706979
 Dr. Bale, Division of Radiology and Biophysics
 Dr. Hodge, Division of Pharmacology and Toxicology
 Dr. Howland, Medical Division
 Dr. Pearse, Flash Burn Section
- 10:30 Break
- 10:45 Shortening of Life-Span by Radiation - H. A. Blair
- 11:05 Effect of X-rays on Spermatogenesis - J. B. Hursh
- 11:20 Radiation Induced Changes in Properdin in the Dog - S. Michaelson
- 11:35 Tissue Specific Antibodies - I. Spar
- 11:50 Radiation Dose to Lungs from Radon and Thoron - S. Black
- 12:00 Lunch at Faculty Club

Friday Afternoon - Room O-159, Medical School

- 2:00 Inhalation Studies - J. K. Scott, D. A. Morken, J. N. Stannard, P. E. Morrow and H. C. Hodge
- 3:00 Lymphocytes with Bi-lobed Nuclei as Indicators of Radiation Exposure
M. Ingram
- 3:15 Protein Metabolism - L. L. Miller
- 3:35 Break
- 3:50 Visit to laboratory for study of breathing of alpha emitters
- 6:30 Dinner, Green Room, Sheraton Hotel

Saturday Morning - Room O-183, Medical School

- Meeting to be arranged by Advisory Board and Division of Biology and Medicine
- 10:30 Break
- 12:15 Lunch, Hospital Cafeteria

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DIRECTORY

<u>Field</u>	<u>Principal Investigator</u>	<u>Room No.</u>
Statistics	S. L. Crump A. M. Dutton	0-163 0-167
Flash Burns	H. E. Pearse J. R. Hinshaw A. J. Emery R. E. Roth T. P. Davis J. Basso	B-201 B-201 B-145 C-43 C-27 C-27
Division of Radiology and Biophysics William F. Bale, Chief of Division		0-590
Studies on the Hemorrhagic State and Metabolism of Irradiated Animals. Studies on Splenic Physiology in the Isolated Perfused Spleen	L. W. Tuttle M. Goldman Leon Miller	B-239
The Effects of Radiation on the Biosynthesis of Hemoglobin [Tracer Studies with I ¹³¹ Labeled di-(iodo ethyl)-deuteroporphyrin in Mice with Transplanted Tumors]	Kurt Salomon Kurt Altman	B-237
Effect of X-irradiation on the Aging Process in the Rat	John B. Hursh George Casarett	0-584
Attempts at Therapy Following Whole Body X-irradiation on Rabbits and Guinea Pigs	L. T. Steadman	A-214
Effects of X-irradiation on Spermatogenesis in Dogs (Beagles Irradiated Daily by Doses in the Tolerance Range for Their Life Span)	George Casarett John B. Hursh	B-235
Study of Tissue Specific Antibodies as Possible Therapeutic Agents for the Treatment of Cancer	W. F. Bale Irving Spar Ruth Goodland William Dewey	0-585 0-568
Plasma and Tissue Protein Metabolism in Normal and Experimental Diseases (Perfusion of Surviving Rat Liver, Plasma Mucoproteins and Plasma Lipid Production, Walker Tumor Protein Synthesis and Metabolism in Tissue Culture, Studies with C ¹⁴ Labeled Amino Acids)	Leon L. Miller D. E. Haft Ruth Hanavan Sally Hallagen	0-569 0-463
<u>Drosophila melanogaster</u> as a Tool in Radiobiologic and Toxicologic Investigation (Effects of Cobalt Gamma Radiation on Life Span of Irradiated Adults, Effects of Highly Irradiated Food on Life Span)	Robert Baxter B. J. Henderson Lawrence Tuttle	B-239
Fate of Radium and Its Daughter Products in Living Organisms	John Hursh Elmer Nussbaum	0-584

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<u>Field</u>	<u>Principal Investigator</u>	<u>Room No.</u>
Electron Microscope Studies of Protein Monolayers	Nicoletta Zervas W. F. Bale	B-110 0-585
<i>Antigen Antibody reactions</i> Development of Sensitive Methods for Spectrochemical Analytical Measurements	L. T. Steadman	A-214
Acute and Chronic Effects of Strontium-90 Administered to Rats and Monkeys (Ingestion and Excretion Toxicity Experiments)	Lawrence Tuttle Robert Baxter M. Goldman B. J. Henderson	B-239
Measurement of Radiation Dose to Lungs from Radon and Thoron Degradation Products (Measurements of Body Burden and Excretion of Radiolead and Polonium by Miners and Experimental Animals Exposed to Radon)	Stuart Black W. F. Bale	A-217 0-585
Dosimetry of Fission Product Fall-Out Fields	Adrian Dahl	0-465
Division of Pharmacology and Toxicology Harold C. Hodge, Chief of Division		0-390
Toxicity of Chemical Materials	E. A. Maynard W. L. Downs L. Leach H. Wilson	C-20 C-20 C-15 C-19
Pathology, Radon Inhalation Effects	J. K. Scott	C-7
Fluoride Metabolism	Frank Smith	B-202
Parathyroid Function, Bone Metabolism	W. F. Neuman	0-357
Trace Analyses	Taft Toribara	0-352
Solution Chemistry of Po, Be, U	I. Feldman	0-360
Calcium Metabolism in the Human	R. Terepka	0-371
Drug Metabolism Using Cl^{14}	E. Boyd	0-383
Transfer of Electrolytes and Non-electrolytes Across Cell Membranes. Action of Heavy Metals of Cells and Tissues. Metabolism of Cl^{14} Atropine	Aser Rothstein T. Clarkson George Berg David Jennings	0-290
Metabolism of Alpha Emitters	J. N. Stannard R. G. Thomas G. Smith	0-384
Radioactive Inhalation Laboratory	J. N. Stannard R. Wilson H. Berke	B-238

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<u>Field</u>	<u>Principal Investigator</u>	<u>Room No.</u>
Radioactive Inhalation Section Office	J. N. Stannard Paul Morrow Frank Smith	B-247
Electronics and Aerosol Laboratory	D. Morken	B-208
Aerosol Research	K. Lauterbach	B-204
Medical Division <u>Joe W. Howland</u> , Chief of Division		0-90
The Morphological and Physiological Alterations of the White Cells in Normal and Irradiated Animals	Marylou Ingram	C-22
Clinical and Biochemical Studies of the Irradiated Dog	W. B. Mason	A-114
Effect of Nutrition, Survival and Recovery Processes of the Irradiated Rat. Effect of Aging, Anemia and with Partial Body Exposure	T. R. Noonan	0-83
Search for a Specific Method of Biological Monitoring. Collection and Correlation of Information on Reactor Technology, Problems in Reactor Safety and Problems in Waste Disposal	G. H. Whipple	A-123
Studies on Therapy of the Radiation Syndrome with Attempted Control of Infection, Hemorrhage and Nutritional and Humoral Imbalances by Standard Medical Procedures. Role of Immunological Changes in the Radiation Syndrome. The Effect of Successful Therapy on the Life Span of the Animal	S. Michaelson Douglas Johnstone	C-25
Studies on the Endocrine Imbalances in the Irradiated Animal. Use of the Irradiated Chick Embryo as an Assay Method for Evaluation of the Protection of Therapeutic Effect of Various Humoral and Chemical Agents	F. T. Brayer S. R. Glasser	00-12
Study of Methods of Cyclotron and Reactor Monitoring. Special Instrumentation for Biological Assay Methods. Evaluation of Specific Ionization within Phantoms and Tissues	H. Mermagen G. H. Whipple	0-69

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