

THE GEORGE WASHINGTON UNIVERSITY
College of General Studies
"Fundamentals of Space Medicine"
October 17-28, 1966

PARTICIPANT LIST

Donald Bettge
Office of Civil Defense
Lorton, Virginia

Ira Blei
Melpar, Inc.
Falls Church, Virginia

T. A. Bottomley, Jr.
Bellcomm, Inc.
Washington, D. C.

Armand N. Chambers
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Robert W. DeMoss
General Electric
Daytona Beach, Florida

Donald B. Hoffman
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Douglass C. Howard
Hamilton Standard
Windsor Locks, Connecticut

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Greenbelt, Maryland

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A. N. Kontaratos
Bellcomm, Inc.
Washington, D. C.

John Maccioli
Naval Observatory
Washington, D. C.

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FUNDAMENTALS OF SPACE MEDICINE

SCHEDULE
1ST WEEK

TEXTS

Monday, 17 October	Tuesday, 18 October	Wednesday, 19 October	Thursday, 20 October	Friday, 21 October
AM	AM	AM	AM	AM
8:00 Introduction S. Vinograd, M.D.	8:00 Gen. Neurology M. Baldwin, M.D.	8:00 Cardiovascular Physiology L. Peterson, M.D.	8:00 Electrocardiography N. Allebach, Capt, USN, MC	8:00 Space Radiation and Magnetic Field Environment W. Hess, Ph.D.
HAVE 8:15 NASA Organization J. Bollerud, B/Gen, USAF, MC	9:00 Special Senses J. Brown, Ph.D.	9:00 Clinical Aspects of Cardiovascular Function J. Warren, M.D.	11:30 Discussion	9:15 Radiation Biology W. Latham, Ph.D.
HAVE 8:45 DOD Organization J. Talbot, B/Gen, USAF, MC	10:00 Vestibular Function A. Graybiel, Capt, USN, MC	10:15 Hematology S. Swisher, M.D.	PM 1:30 Impact J. Stapp, Col, USAF, MC	10:30 Radiation Shielding in Space W. Keller, M.S.
RECORDED 9:15 Gemini Flight Program W. Schneider SAM HUSBARD	11:30 Discussion	11:30 Discussion	2:30 Acceleration A. Hyde, M.D., Ph.D.	11:30 Discussion
RECORDED 9:45 Apollo Flight Program S. Phillips, M/Gen, USAF - JOHN K. HOLCOMB	PM 1:30 Gen. Metabolism and Endocrinology Q. Hartwig, Ph.D. NO TEXT - VERY BASIC	PM 1:30 Respiratory Physiology R. Forster, M.D. R.F. COBURN	3:30 Noise & Vibration H. von Gierke, Ph.D.	PM 1:30 Physiological Effects of Magnetic Field Variations D. Beischer, Ph.D.
RECORDED 10:30 Apollo Applications Program W. Taylor	2:30 Fluid and Electrolyte Balance D. Whedon, M.D.	3:00 Physiological Aspects of Weightlessness P. Henry, Ph.D.	4:30 Discussion	2:30 Visible Light, Ultra- violet and Infrared Energies J. Buesseler, M.D.
11:00 Advanced Manned Missions Program E. Z. Gray	3:30 Biochemistry E. Knoblock, L/C, USA, MC	4:30 Discussion		3:30 Spectral Rhythm Structure of Organisms; Implica- tions to Bioastronautics F. Halberg, M.D.
11:30 Discussion	4:30 Discussion			4:30 Discussion
WILL SEND PM 1:30 Gen. Psychology & Habitability J. Kubis, Ph.D.				
WILL SEND 3:00 Man-Machine Integration J. Orlansky, Ph.D. CONSULT ON NUM STDS.				
4:00 Discussion				
4:15 Lunar Hazards U. Liddel, Ph.D.				

CALL
HIT
REQUEST

Experiments - on
kidneys "control"
control body or series

Call Baldwin
in Bethesda
High-Eye I met

Swisher
Fisher
Turner

David Bates - Montreal
Oxygen induced changes
in lungs

Get copy of letter re
Gen 11 p. 5 calculated
docs.

Send Latham a copy
only

JURAL ATELECTASIS
ATELECTASIS

FUNDAMENTALS OF SPACE MEDICINE
SCHEDULE
2ND WEEK

Monday, 24 October	Tuesday, 25 October	Wednesday, 26 October	Thursday, 27 October	Friday, 28 October
AM 8:00 Medical Results of Soviet Manned Space Flts. D. Flickinger, B/G, USAF, Ret. 9:15 Simulation Studies E. McLaughlin, Ph.D. 10:30 Toxicological Considerations S. Natelson, Ph.D. 11:30 Discussion PM 1:30 Physiological Considerations in Atmosphere Selection J. Billingham, M.D. 3:00 Metabolic Factors in Manned Space Flight J. Billingham, M.D. 4:30 Discussion	AM 8:00 In-Flight Medical Experiments S. Vinograd, M.D. 10:00 Ground-Based Studies F. Benjamin, Ph.D., D.M.D. 11:30 Discussion PM 1:30 Man-Machine Simulation M. Grodsky, Ph.D. 2:30 Human Standards R. McFarland, Ph.D. 3:30 Living Conditions and Standards S. Sells, Ph.D. 4:30 Discussion	AM 8:00 Flight Crew Medical Support in Manned Space Flight (Suits, ECS, Food, Water, & Waste Systems, Survival Equipment, Med. Experiment Equipment) Mr. R. Johnston 11:30 Discussion PM 1:30 Bioinstrumentation in Manned Space Flight G. Armstrong, M.D. E. ROSELY 2:30 Data Transmission, Computerization, and Display in NASA Manned Space Flight Mr. M. Rosenbluth 3:30 Advanced Concepts in Bioinstrumentation and Data Communication O. Schmitt, Ph.D. 4:30 Discussion	AM 8:00 Data Analysis J. Lindsey, Ed.D. J. Townsend, Ph.D. 10:00 Occupational Medicine D. Stoddard, M.D. H. Estes, M.D. 11:30 Discussion PM 1:30 Medical Operations in Manned Space Flight A. Catterson, M.D. 3:00 Flight Crew Training D. Slayton, Astronaut 4:30 Discussion	AM 8:00 Gemini Medical Findings to Date C. Berry, M.D. L. Dietlein, M.D. 11:30 Discussion PM 1:30 Biomedical Aspects of Space Flight - USAF J. Ord, Lt Col, USAF, MC 2:30 Biosatellite Program D. Jenkins, Ph.D. 3:30 Studies of Future Manned Space Flight Missions F. Dixon, Ph.D. 4:30 Discussion

Must cover autonomic regulation of heart.
Add Microbiology next year.
" O.R.T.
A.W. Carl Schaeffer - new lecture on Sub. Atmos. & Confined
GET PART III - ROTH O₂ STUDY

Food - Diff. various
Paris - Unpublished

Rec. Reading - F. Lall

Sells, F.B. & Berry, C.A.
"Human Function in Set + Space Training"
Ronald Press, 1962

Frontiers in Psychology
Scott, Freeman G.
Chicago, 1964

2/12/66

GUEST LECTURERS

FUNDAMENTALS OF SPACE MEDICINE

GEORGE WASHINGTON UNIVERSITY

OCTOBER 1966

Allebach, Newton W., Capt, USN, MC
Head, Aviation Physical Qualification Br.
Bureau of Medicine and Surgery, USN
Washington, D. C. 02390

Armstrong, George, M.D.
Chief, Space Physiology Branch
Manned Spacecraft Center
Houston, Texas 77058

Baldwin, Maitland, M.D.
Clinical Director, NINDB
National Institutes of Health
Bethesda, Maryland

Benjamin, Fred B., Ph.D., D.M.D.
Medical Science and Technology
Space Medicine Directorate
Office of Manned Space Flight
Headquarters NASA
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Beischer, D. E., Ph.D.
Head, Biochemistry Department
U.S. Naval Aerospace Medical Inst.
Pensacola, Florida

Berry, Charles A., M.D.
Director, Medical Research & Operations
NASA Manned Spacecraft Center
Houston, Texas 77058

Billingham, John, M.D.
Acting Chief, Biotechnology Div.
NASA Ames Research Center
Moffett Field, California

Bollerud, Jack, Brig Gen, USAF, MC
Acting Director, Space Medicine
Office of Manned Space Flight
Headquarters NASA
Washington, D. C. 20546

Brown, John Lott, Ph.D.
Vice President for Academic Affairs
Kansas State University
Manhattan, Kansas 66504

Buesseler, John A., M.D.
Professor & Chief of Ophthalmology
U. of Missouri School of Medicine
Columbia, Missouri

Catterson, A. D., M.D.
Medical Research and Operations
NASA Manned Spacecraft Center
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Dietlein, Lawrence F., M.D.
Chief, Biomedical Research Office
NASA Manned Spacecraft Center
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Dixon, Franklin P., Ph.D.
Advanced Manned Missions Program
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Estes, Hilliard D., M.D.
Consultant to NASA and FDA
Occupational Medical Division
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Flickinger, Donald D., B/Gen, USAF, Ret.
Consultant in Life Sciences
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Washington, D. C.

Forster, Robert E., M.D.
Professor, Physiology
University of Pennsylvania
Philadelphia, Pennsylvania

*R.F. COBURN
PROF. PHYSIOL.
U. of Penn. SCH. of MED.*

Gray, Edward Z.
Director, Advanced Manned
Missions Program
Office of Manned Space Flight
Headquarters NASA
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Graybiel, Ashton, Capt, USN, MC
Director of Research
U.S. Naval Aerospace Medical Inst.
Pensacola, Florida

Grodsky, Milton A., Ph.D.
Technical Director
Simulation Programs
Martin Company
Baltimore, Maryland

Halberg, Franz, M.D.
Professor of Pathology
College of Medical Sciences
University of Minnesota
Minneapolis, Minnesota

Hartwig, Quentin, Ph.D.
Consultant in Life Sciences
Office of Technology Utilization
Headquarters NASA
Washington, D. C. 20546

Henry, James P., Ph.D.
Department of Physiology
School of Medicine
U. of Southern California
Los Angeles, California

Hess, Wilmot N., Ph.D.
Chief, ~~Theoretical Division~~ *LABORATORY FOR THEORETICAL STUDIES*
NASA Goddard Space Flight Ctr.
Greenbelt, Maryland

Hyde, Alvin S., M.D., Ph.D.
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Aerospace Medical Research Laboratories
Wright-Patterson Air Force Base
Dayton, Ohio

Jenkins, Dale W., Ph.D.
Chief, Environmental Biology
Bioscience Programs Division
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Johnston, Richard S.
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Houston, Texas 77058

Keller, Warren, M.D.
Chief, Environmental Factors
Space Vehicles
Office of Advanced Research
and Technology
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Knoblock, Edward C., Lt Col, USA, MC
Director, Division of Biochemistry
Walter Reed Army Institute
Washington, D. C.

Kubis, Joseph F., Ph.D.
Professor of Psychology
Fordham University Graduate School
New York, New York

Langham, Wright, Ph.D. *DIR BIOLOGICAL RESEARCH*
Los Alamos Scientific Laboratory
University of California
Los Alamos, New Mexico 87544

Liddel, Urner, Ph.D. *SC ADD. DIR. FOR PROGRAMS*
~~Lunar and Planetary Programs~~
Office of Space Science and
Applications
Headquarters NASA
Washington, D. C. 20546

Lindsey, Jefferson F., Ed.D.
Space Medicine Directorate
Office of Manned Space Flight
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McFarland, Ross A., Ph.D.
Guggenheim Professor of Aerospace
Health and Safety
Harvard School of Public Health
Boston, Massachusetts

McLaughlin, Edward J., Ph.D.
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Natelson, Samuel, Ph.D.
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Chicago, Illinois

Ord, John W., Lt Col, USAF, MC
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San Antonio, Texas 78235

Orlansky, Jesse, Ph.D.
Research & Engineering Support Div.
Institute for Defense Analyses
Arlington, Virginia

Peterson, Lysle, M.D.
Director, Bockus Research Inst.
University of Pennsylvania
Philadelphia, Pennsylvania 19146

Phillips, Samuel C., Maj Gen, USAF
Director, Apollo Program
Office of Manned Space Flight
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Washington, D. C. *J. K. Hubbard
APC Dir. Manned Space*

Rosenbluth, Marvin, B.S.
Manager, Technical Operations
Tech. Rep. Division, Philco Corp.
Houston, Texas

Schmitt, Otto H., Ph.D.
Professor of Biophysics
University of Minnesota
Minneapolis, Minnesota

Schneider, William
Deputy Director, Mission Ops. Dir.
Office of Manned Space Flight
Headquarters NASA
Washington, D. C. 20546

*SAMUEL H. HUBBARD
GEM, DIR OPS*

Sells, Saul B., Ph.D.
Professor and Director
Institute of Behavioral Research
Texas Christian University
Fort Worth, Texas

Slayton, Donald K., Astronaut, B.S.
Assistant Director, Flight Crew Ops.
NASA Manned Spacecraft Center
Houston, Texas

Stapp, John P., Col, USAF, MC
Chief, Impact Injury Branch
MEDEM-PE, Room B-17A
Armed Forces Inst. of Pathology
Washington, D. C. 20305

Stoddard, David H., M.D.
Director, Occupational Medicine
Headquarters NASA
Washington, D. C. 20546

Swisher, Scott N., M.D.
Head, Department of Hematology
University of Rochester Med. School
Rochester, New York

Talbot, John M., Brig Gen, USAF, MC
Special Asst. for Medical Research
Office of the Surgeon General
Headquarters USAF
Washington, D. C.

Taylor, William B.
Director, Apollo Applications
Office of Manned Space Flight
Headquarters NASA
Washington, D. C. 20546

Townsend, John C., Ph.D.
Professor of Psychology
Catholic University
Washington, D. C.

von Gierke, Henning E., Ph.D. *in old title*
Chief, Bio-Acoustics Branch
Aerospace Medical Research Laboratory
Wright-Patterson AFB, Ohio

Warren, James V., M.D.
Professor and Chairman
Department of Medicine
Ohio State University
Columbus, Ohio

Whedon, G. Donald, M.D.
Director, National Institute of
Arthritis and Metabolic Diseases
National Institutes of Health
Bethesda, Maryland

ENGINEERING ASPECTS OF SPACE MEDICINE
SCHEDULE

<u>1ST WEEK</u>				
Monday, 19 October	Tuesday, 20 October	Wednesday - 21 October	Thursday, 22 October	Friday, 23 October
<u>AM</u> 8:00 Introduction S.P. Vinograd, MD 8:15 NASA Organization W.Randolph Lovelace, II, MD 8:45 DOD Organization B/Gen. B.A.Strickland, Jr., (MC) USAF 9:15 Introduction to Manned Space Flight George M. Knauf, MD 9:45 Cardiovascular Physiology Loren D. Carlson, Ph.D. 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Clinical Aspects of Cardio- vascular Function James V. Warren, MD 2:00 ECG Capt. N.W. Allebach, (MC) USN 4:30 Questions - Panel Discussion	<u>AM</u> 8:00 Respiratory Physiology Robert E. Forster, MD 9:45 Research Aspects of Cardio- Respiratory Physiology as Applied to Space Earl H. Wood, MD 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Genl. Metabolism & Endo- crinology Herbert Pollack, MD 2:00 Fluid & Electrolyte Balance G. Donald Whedon, MD 3:15 Biochemistry L/Col. Edward C. Knoblock, USA (MSC) 4:30 Questions - Panel Discussion	<u>AM</u> 8:00 Genl. Neurology & EEG Maitland Baldwin, MD 9:30 Vestibular Function Ashton Graybiel, Capt., (MC) USN 10:30 Special Senses John Lott Brown, Ph.D. 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Genl. Psychology Ross A. McFarland, Ph.D. 2:15 Space Flight Habitability Joseph F. Kubis, Ph.D. 3:30 Man-Machine Integration Milton A. Grodsky, Ph.D. 4:30 Questions - Panel Discussion	<u>AM</u> 8:00 Physiological Factors in the Selection of Spacecraft and Spacesuit Atmospheres John Billingham, MD 10:00 Food, Water, and Waste Systems John Billingham, MD, Presenter 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Future Trends in ECS and Spacesuit Development Michael Del Duca, Ph.D. 2:30 Physiological Aspects of Weightlessness James P. Henry, Ph.D. 4:30 Questions - Panel Discussion	<u>AM</u> 8:00 Space Radiation and Magnetic Field Environment Wilmot N. Hess, Ph.D. 9:15 Radiation Biology Douglas Grahn, Ph.D. 10:30 Radiation Shielding in Space Warren Keller, MS 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Physiological Effects of Magnetic Fields D. E. Beischer, Ph.D. 2:15 Visible Light, Ultraviolet and Infrared Energies John A. Buesseler, MD 3:30 Circadian Rhythms Franz Halberg, MD 4:30 Questions - Panel Discussion
<u>2ND WEEK</u>				
Monday, 26 October	Tuesday, 27 October	Wednesday, 28 October	Thursday, 29 October	Friday, 30 October
<u>AM</u> 8:00 Weightlessness Sigfried Gerathewohl, Ph.D. 10:00 Acceleration B.F. Burgess, Cdr., (MSC) USN 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Impact John P. Stapp, Col., (MC), USAF 2:15 Noise and Vibration Henning E. vonGierke, Ph.D. 3:30 Development Aspects of Biodynamics Protection Gerald J. Pesman, MS 4:30 Questions - Panel Discussion	<u>AM</u> 8:00 Toxic Hazards of Space Flight Samuel Natelson, Ph.D. 9:15 Environmental Control System, Spacesuit, and Survival Equipment Development Edward L. Hays, BS 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Lunar Hazards <i>Gregory B. Orsak, Ph.D.</i> Brian T. Howard, BS 2:15 Living Conditions and Standards in Multiman Spacecraft Saul B. Sells, Ph.D. 3:45 Human Standards H. Grady Wise, L/Col., USAF 4:30 Questions - Panel Discussion	<u>AM</u> 8:00 Bioinstrumentation Development Wayne Holt, BS 9:15 Telemetering and Storage of Information Marvin Rosenbluth, BS 10:30 Advanced Considerations in Bioinstrumentation and Communication of Information Otto H. Schmitt, Ph.D. 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Gemini Inflight Medical Experiments S. P. Vinograd, MD 2:15 Ground Based Medical Experiments Lawrence F. Dietlein, MD 3:30 Simulations Edward J. McLaughlin, Ph.D. 4:30 Questions - Panel Discussion	<u>AM</u> 8:00 R&D Aspects of Crew Medical Selection & Training A.H. Schwichtenberg, MD 9:30 Occupational Medicine in Space Technology David H. Stoddard, MD John E. Boysen, MD 11:30 Questions - Panel Discussion <u>PM</u> 1:00 Flight Crew Medical Operations D. Owen Coons, MD 2:15 Flight Crew Training Donald K. Slayton, BS 3:15 Ground Crew Medical Operations A. Duane Catterson, MD 4:30 Questions - Panel Discussion	<u>AM</u> 8:00 Space Flight Medical Operational Dynamics Charles A. Berry, MD 9:30 Data Retrieval and Analysis J.F. Lindsey, Ed.D. John C. Townsend, Ph.D. 11:30 Questions - Panel Discussion <u>PM</u> 1:00 ORL Concepts Maurice Raffensperger, MS(EE) 2:00 MOL A. I. Karstens, Col., USAF (MC) 2:45 Unmanned Biological Flights Ort Reynolds, Ph.D. <i>Dr. Beuch</i> Dale W. Jenkins, Ph.D. 4:30 Questions - Panel Discussion

ENGINEERING ASPECTS OF SPACE MEDICINE
SCHEDULE

<u>1ST WEEK</u>				
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Fundamentals
ENGINEERING ASPECTS OF SPACE MEDICINE
SCHEDULE

17 Monday, 6 June <u>AM</u> 8:00 Introduction S. P. Vinograd, M.D. 8:15 NASA Organization Col Jack Bollerud, M.D. USAF, MC 8:45 DOD Organization B/Gen John Talbot, M.D. USAF, MC 9:15 Gemini Flight Program William Schneider 9:45 Apollo Flight Program M/Gen Samuel Phillips 10:30 Apollo Applications Program William Taylor 11:00 Advanced Manned Mission Programs E. Z. Gray 11:30 Discussion <u>PM</u> 1:30 Spectral Rhythm Structure of Organisms; Implications to Bioastronautics Franz Halberg, M.D. 2:30 Vestibular Function Ashton Graybiel, Capt, USN, MC 4:30 Discussion	18 Tuesday, 7 June <u>AM</u> 8:00 General Metabolism & Endocrinology Herbert Pollack, M.D. 9:00 Fluid & Electrolyte Balance G. Donald Whedon, M.D. 10:15 Biochemistry L/C E. G. Knoblock, USA, MC 11:30 Discussion <u>PM</u> 1:30 Hematology Scott Swisher, M.D. 2:30 Gen. Psychology and Habitability J. F. Kubis, Ph.D. 3:30 Man-Machine Integration Jesse Orlansky, Ph.D. 4:30 Discussion	19 Wednesday, 8 June <u>AM</u> 8:00 General Neurology Maitland Baldwin, M.D. 9:30 Clinical Aspects of Cardiovascular Function James V. Warren, M.D. 10:30 Discussion 11:00 Electrocardiography N. W. Allebach, Capt, USN, MC <u>PM</u> 1:30 Electrocardiography (Cont.) Capt Allebach 3:00 Respiratory Physiology Robert E. Forster, M.D. 4:30 Discussion	20 Thursday, 9 June <u>AM</u> 8:00 Physiological Aspects of Weightlessness James P. Henry, Ph.D. 10:00 Special Senses John Lott Brown, Ph.D. 11:30 Discussion <u>PM</u> 1:30 Acceleration John P. Stapp, Col, USAF, MC 3:00 Biodynamics (Noise & Vibration) H. E. von Gierke, Ph.D. 4:30 Discussion	21 Friday, 10 June <u>AM</u> 8:00 Space Radiation & Magnetic Field Environment Wilmot H. Hess, Ph. D. 9:15 Radiation Biology Douglas Grahn, Ph.D. 10:30 Radiation Shielding in Space Warren Keller, M. S. 11:30 Discussion <u>PM</u> 1:30 Physiological Effects of Magnetic Field Variations D. E. Beischer, Ph.D. 2:30 Visible Light, Ultra-violet & Infrared Energies John Buesseler, M.D. 4:30 Discussion
24 Monday, 13 June <u>AM</u> 8:00 Lunar Hazards Uerner Liddel, Ph.D. 9:15 Simulation Studies E. J. McLaughlin, Ph.D. 10:30 Toxicological Considerations Samuel Natelson, Ph.D. 11:30 Discussion <u>PM</u> 1:30 Physiological Considerations in Atmosphere Selection John Billingham, M.D. 3:00 Metabolic Factors in Manned Space Flight John Billingham, M.D. 4:30 Discussion	25 Tuesday, 14 June <u>AM</u> 8:00 In-Flight Medical Experiments S. P. Vinograd, M.D. 10:00 Ground Based Studies E.B. Benjamin, Ph.D., D.M.D. 11:30 Discussion <u>PM</u> 1:30 Living Conditions & Standards Saul B. Sells, Ph.D. 2:30 Human Standards Ross McFarland, Ph.D. 3:30 Man-Machine Simulation M. Grodsky, Ph.D. 4:30 Discussion	26 Wednesday, 15 June <u>AM</u> 8:00 Flight Crew Medical Support in Manned Space Flight (Suits, ECS, Food, Water, & Waste Systems, Survival Equipment, Med. Experiment Equipment) Mr. Richard S. Johnston 11:30 Discussion <u>PM</u> 1:30 Bioinstrumentation in Manned Space Flight George Armstrong 2:30 Data Transmission, Computerization, & Display in NASA Manned Space Flight Marvin Rosenbluth 3:30 Advanced Concepts in Bioinstrumentation & Data Communication Otto H. Schmitt, Ph.D. 4:30 Discussion	27 Thursday, 16 June <u>AM</u> 8:00 Data Analysis J. Lindsey, Ed. D. J. Townsend, Ph.D. 10:00 Occupational Medicine David Stoddard, M.D. Hilliard D. Estes, M.D. 11:30 Discussion <u>PM</u> 1:30 Medical Operations in Manned Space Flight A. D. Catterson, M.D. 3:00 Flight Crew Training Donald K. Slayton, Astronaut 4:30 Discussion	28 Friday, 17 June <u>AM</u> 8:00 Gemini Medical Findings to Date C. A. Berry, M.D. L. F. Dietlein, M.D. 11:30 Discussion <u>PM</u> 1:30 Biomedical Aspects of Space Flight - USAF Jack Ord, L/C, USAF, MC 2:30 Biosatellite Program Dale Jenkins, Ph.D. 3:30 Studies of Future Manned Space Flight Missions Frank Dixon, Ph.D. 4:30 Discussion

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1. *Heber*

2. *Hogde*
Billingham
Woods & Phillips
Snyder

3. *(+EKFITE)*
Under Sea
SST
Boyle
Surgery
Moller
Perry

Arch T...

June 23 incl. 25, 28, 29
the July 3