

AMA NATIONAL CONVENTION

27-30
Nov 1961

DENVER, COLO.

POTENTIAL SUBJECTS & SPEAKERS FOR:
SPACE MEDICINE SESSION

- Choose one
1. Vectorecardiography As a Tool in Cardiophysiological Research in Zero-gravity — L. E. Lamb
 2. Comparisons of Usefulness of Vectorecardiography & Phonocardiography in Space Cardiophysiology Research. — L. E. Lamb
 3. ^{Effects} Influence of Space Flight ^{Stresses} on the Normal Cardiovascular System — L. E. Lamb.

Topics for

1. Space Medicine Session

Hyper- and Hypo-G

R. Fixott
Earl Carter

H. Strughold

~~Frank Bond~~

Chuck
Roodman

Albert Schwichtenberg

A. Clamann

John Stapp

B. Barke

Larry Lamb

Chuck Berry

Harold von Beckh

Dave Simons

Otis Benson

Ralph Kraus

Robt Zellmer

G.L. Hekhus

Geo. Ruff

Bill Douglas

~~Sam White~~

R. Lovelace

Stan White

J. Gaume

1. Effects of ~~Space Flight~~ Stresses on Bone and Muscle Physiology — J. G. Gaume

2. Oxygen & CO₂ Transport & Exchange In the Zero-Gravity State

3. Effects of Hyper- and Hypo-G on Respiration.

4. Radiation Dosimeter Implants

5. ^{changes in} Acid-Base Balance Resulting from Altitude Acclimatization

6. Control of Body Movements in Hypo- and O-gravity States.

7. Self-Sustaining Life Support Systems for Long Space Operations

8. The ^{Mercury} Astronaut Training Program

9. A Research Laboratory for the Development of the Self-Sustaining Life Support System for Long Space Operations.

10. Stresses encountered in S.F.

11. What can we do to adapt.

12. Astronaut selections.

2. Medical Electronics & Computer Session

1. ^{Co} Medical Diagnosis by Computers — Schenckel

2. Electronic Computers as an Aid to Medical Diagnosis

3. The Future Role of Computers in Medical Diagnosis

4. Computer Techniques in Medical Diagnosis

5. New Developments in O₂ & CO₂ Sensors.

6. ~~Molecular~~ ^{Actual} Electronics Coming — Molecular Medical Electronics (Otto Schmidt)

7. Cataloguing Data — Mercury

8. Sensors — Otto Schmidt

9. Sensors Baldwin — U. of Ariz.

Session on Medical Electronics and Computers

- ✓ 1. ^{Coming =} Micro and Molecular ^{Medical} Electronics - Otto Schmidt
(Coming Developments in Medical Electronics) *ask about Vane Instruments manufacture input*
- ~~2. Microelectronics for Neurophysiological Research - Baldwin~~
- ~~3. The Use of Computers in the Mercury Astronaut Program - A. Schwichtenberg~~
- ✓ 4. Use of Computers in Cancer Diagnosis - J. Schenthal
Tulane
- ✓ 5. Biological Computers - W. McCulloch
- ~~6. Dynamic Testing vs Static Testing in Medical Diagnosis - A. Schwichtenberg~~
7. Materials Research for Medical Use - *Some one from Dow Chemical*
Institute for Medical Research or Hughes Medical Research
- ? 8. ^{Implanted} Cardiac Pacemakers in Heart Block - J. Denocho
- ✓ 9. Adv. Concepts used in Astronaut Examination Programs
& the Need for New Dynamic Instrumentation - Schwichtenberg
30-40 ⁴⁵ min

For Stan White Call Gilman & ask for support & speaker. If agrees follow & letter of request. For Randt call him direct

Space Medicine Session

2. The NASA Program in Life Sciences - ~~Dr. Clark Randt~~ (or successor) (Col Chas. Roadman) ~~OK~~
2. The Impact of Space Medicine Research on ^{General} ~~Geo~~ Medicine Dr. H. Strughold OK
3. The Astronaut Selection & Training Program - Dr. R. Lovelace ~~OK~~
4. Medical & Environmental Instrumentation in the Mercury Program ^{Dr. S. White} ~~Med. Results to date in Mercury Program~~
5. Research on Weightlessness: Its Effects & Implications - Dr. J. Gaume OK
6. Space Radiations: ^{their} Characteristics & Implications - Dr. G. Hekhuis OK

Session on ^{Computers &} ~~Medic~~ Electronics & ~~Computers~~ in Medicine

1. Coming Developments in Medical Electronics - O. Schmidt, Ph.D. OK
2. Advanced Concepts Used in the Astronaut Examination Program & the Need for New Dynamic Instrumentation - Dr. A. Schuetzenberg OK
3. Biological Computers - Dr. W. McCulloch
4. The Use of Computers in Cancer Diagnosis - Dr. J. Schenthal OK
5. Materials Research for Medical Use - Dr. R.R. McGregor - polymer chemist
Dr. Maggard B. Chomoweth (r.d.) Dow Chem. Co. Midland Mich.
Dow ~~Chem~~ Corning Inst. for Med. Res. - Midland
6. Surgical Implants of Artificial Cardiac Pacemakers - Dr. J. Doncho