

M E M O R A N D U M
May 23, 1958

To: J. G. Gaume, M.D. A-205
From: R. H. Edgerley
Subject: Proposed Role of the Physiology Section in the Department of Space Medicine

The following outline of the way a section of physiology might fit into a department of space medicine is submitted for your suggestions and approval. It is felt that adoption of this or similar program as soon as possible will accelerate the whole space medicine program. It will do this by: (1) giving us a better idea of the equipment which should be purchased, (2) aiding in planning of laboratory space requirements, and (3) facilitating further hiring of physiological personnel.

1. Overall Departmental Objective - moon base development is primary long term goal.
2. Overall Objective of Physiology Section - support of departmental goal.

a. Service Functions - preferably no more than 50% of total effort.

- 1) Supply of information in space physiology in all areas.
2) Proposals - departmental and section.
3) Research - short term projects to settle special problems.

b. Research Program - design of an atmosphere compatible with total system requirements which does not compromise performance or longevity of man component.

- expand. {
1) inert gas
2) O₂ levels
3) pressure levels
4) CO₂
5) relative humidity
6) toxic gases
7) ionization }

1. short term effects
2. long term effects

c. Provide for professional growth needs of physiological personnel.

- 1) Promote interactions with the rest of the Department and the Company.
- 2) Library requirements.
- 3) Promote interactions with outside organizations.
- 4) Facilitate training and broaden experience.

R. H. Edgerley

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RHE:gdt

cc: KLnaba
NSpector