

NOT FOR PUBLICATION OR PUBLICATION REFERENCE

SCIENCE INFORMATION EXCHANGE
SMITHSONIAN INSTITUTION

PROJECT NO. (Do not use this space)
GF 2241

B

Department of the Army

SUPPORTING AGENCY: U. S. Army Medical Research and Development Command

TITLE OF PROJECT:

Biological Applications and Effects of Optical Masers

ARM1.941209.177

Give names, departments, and official titles of PRINCIPAL INVESTIGATORS and ALL OTHER PROFESSIONAL PERSONNEL engaged on the project.

Dr William T. Ham, Jr. Dept. of Biophysics and Biometry, Dr. Walter J. Geeraets, Assoc. Prof. Department of Ophthalmology.
Frederick H. Schmidt, Assoc. Prof., R. C. Williams, Asst. Prof., Department of Biophysics and Biometry.

NAME AND ADDRESS OF INSTITUTION:

Medical College of Virginia, Richmond, Virginia

SUMMARY OF PROPOSED WORK - (200 words or less. Omit confidential data.) - In the Science Information Exchange summaries of work in progress are exchanged with government and private agencies supporting research, and are forwarded to investigators who request such information. Your summary is to be used for these purposes.

The aim of this project is to investigate some applications of optical masers to biological and medical research and to assess some of the biological hazards inherent in these devices. A ruby laser will be employed to determine threshold doses for minimal injury to the rabbit eye; also, the production of thermal lesions on bare skin will be studied in experimental animals. Such factors as size of lesion, exposure time, depth of penetration, effect of auxiliary optics, and methods of controlling the device in a manner suitable for laboratory use will be investigated.

Submitted for period beginning February 1962

SIGNATURE OF PRINCIPAL INVESTIGATOR

William T. Ham, Jr.

Identify the Professional School (medical, dental, public health, graduate, or other) with which this project should be identified:

SCHOOL *of Medicine and Graduate School*

INVESTIGATOR -- DO NOT USE THIS SPACE

Grant No.
GF 2241

Period of Operation
2/62 - 1/63

Amount Approved
\$25,542

Washington National Record Center
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Accession #: 67A-4813

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File: Professor William T. Ham, Jr. MD-2241
Reports & Manuscripts

MR0001-RB

27 February 1962

Professor William T. Ham, Jr.
Medical College of Virginia
1200 East Broad Street
Richmond 19, Virginia

Dear Professor Ham:

When you were awarded Contract No. DA-49-193-MD-2241, the documents you received indicated you would be provided additional instructions concerning various administrative procedures and submission of reports.

Your first annual report will be due on 1 October 1962 and annually thereafter for the duration of the contract. I trust the material inclosed will be adequate to assist you in preparing the necessary reports and in publicizing the results of your work.

Personnel of this office will welcome hearing from you at any time.

Sincerely yours,

1 Incl
a/s

STANLEY J. WEIDENKOPF
Colonel, MSC
Executive Officer

Stanley J. Weidenkopf

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