



7 May 1963

MEMORANDUM FOR MEMBERS, DDR&E ADVISORY PANEL ON THE MEDICAL AND BIOLOGICAL SCIENCES

SUBJECT: Minutes of the Second Meeting of the Panel, which was held at the U. S. Army Chemical Research and Development Laboratories, Edgewood Arsenal, Maryland, 19 - 20 April 1963.

Members Present

Dr. James A. Baker	Dr. Francis D. Moore
Dr. Charles F. Gell	Dr. Harold G. Scheie
Dr. J. Thomas Grayston	Mr. David Schwarz
Dr. Richard A. Kern, <u>Chairman</u>	Dr. Leslie Silverman
Dr. Gerald M. McDonnell	Dr. Scott N. Swisher
Dr. Frank W. McKee	Dr. Victor H. Witten

Staff Present

Dr. Frederick J. Frese, Jr., ODDR&E, Executive Secretary

Guests

Surgeon Captain Frank P. Ellis, OBE, MC, FRCP, Royal Navy, British Liaison Medical Officer
Surgeon Lt Cdr Eric R. Keirstead, Medical Liaison Officer (Air), Canadian Joint Staff

Army Representatives

B/Gen Robert E. Blount
Dr. Marion Sulzberger
L/Col Richard R. Taylor
L/Col James B. Moffett
L/Col David N. Dalton

Navy Representatives

R/Adm Calvin B. Galloway
Capt James A. O'Donoghue

Air Force Representatives

L/Col David I. Livermore
Dr. Frank W. Hartman

I. The first day of the meeting (19 April 1963) was devoted to presentations by the host laboratory. A copy of the program is attached.

II. Announcements by the Chairman: (On the second day - 20 April 1963)

The meeting of the executive session was called to order by the Chairman, Dr. Kern, who announced that, following the pattern established

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at the first meeting, the first part of the morning would be devoted to an informal consideration of the major problems of the host laboratory. Consequently, he had invited Colonel Frank L. Bauer, MC, and his division chiefs to attend.

III. Service Laboratory Problems. Colonel Bauer introduced the following members of his staff:

Major Dale R. Snyder, Chief, Experimental Medicine Division
Dr. Arthur J. Dziemian, Chief, Biophysics Division
Dr. J. Henry Wills, Chief, Physiology Division
Dr. Bernard P. McNamara, Chief, Toxicology Division
Dr. S. W. Light
Dr. E. R. Stearns
Major Claude McClure
Major James S. Ketchum

a. The first item to be discussed between the Panel members and their hosts was the question of coordination of research work on military chemicals. It was pointed out that when the old Military Chemicals Committee was dissolved, some of its functions were taken over by DDR&E's Advanced Research Projects Agency (ARPA) under Project TORES wherein the DOD-wide responsibility for toxicology was assigned to the Army Chemical Research and Development Laboratories (Army CRDL) with tri-Service financial support. However, approximately a year ago, for various reasons, Project TORES was discontinued and toxicology responsibility reverted to each Service in its area of primary interest. At present, coordination of research effort is achieved at DDR&E, and through two agencies of NRC-NAS: one, an Ad-Hoc Committee on Toxicology with the NRC Toxicology Information Center and the other, the Division of Medical Sciences, Committee on Sanitary Engineering and Environment, Subcommittee on Atmospheric and Industrial Hygiene. It was mentioned that Army CRDL does do certain detoxification studies, particularly with reference to field trials. In addition, metabolic studies on toxic agents are done by the Physiology Division under Dr. Wills.

b. The discussion then turned to the question of Military volunteers for the testing program of the Experimental Medicine Division. It was reported that the financial support and the authority for the program were both considered adequate. The major effort in human testing must be done in-house since very few contractors were interested in testing for minimal effects in humans. At present, the recruiting of volunteers is done by members of the professional research staff of Army CRDL. The biggest obstacle is the reluctance of unit commanders to release men from unit training to participate in the volunteer program. However, through the efforts of its own staff, the Experimental Medicine Division has been able to keep the volunteer input close to the operational capacity of the present clinical facilities.

c. Several Panel members inquired as to plans and progress towards providing a more modern and adequate clinical facility. It was reported that

such a new facility had been planned and proposed for inclusion in the FY 1964 Military Construction Program of the Budget in the amount of \$4.3 million. This proposal was turned down at the OSD level. A modified version at the cost of \$2.6 million is being planned for inclusion in next year's budget. Such a new facility would allow for a two to three-fold expansion of volunteer studies. Several members of the Panel suggested that Colonel Bauer and his staff explore the possibility of having some of the unclassified and least toxic investigations conducted at other clinical facilities of DOD.

d. The final subject discussed was the work being done on agent effectiveness from a human factors standpoint. Dr. Stearns said that his people were working with the Navy Training Devices Center on the development of simulators for various combat-related tasks. They are also starting on a series of job analyses of combat-related tasks to be able to isolate and measure specific capabilities such as visual acuity under varying conditions, auditory acuity, manual dexterity, etc. They are also interested in changes to pain tolerance and certain amnesia effects. Finally they are planning to do studies on group actions where not all of the group have been exposed to the agent.

e. Dr. Kern thanked Colonel Bauer and his staff both for their very interesting presentations and discussions and for their courteous hospitality. He then called the Panel into formal executive session.

IV. Agenda Items.

The first item of business was consideration of the minutes of the previous meeting which had been distributed by mail. The minutes were approved as published. The executive secretary then presented certain information items to the Panel. These included: (1) Verification of receipt by the Panel members of certain publications which had been distributed since the last meeting; (2) a ruling by the Chief, Security Division, OSD, that Panel members did not require individual identification cards; (3) an enumeration of the agencies and offices which effected coordination of medical and biological research in the DOD; (4) the DOD position with reference to FDA regulations on experimental drugs (request for exemption now being staffed); (5) a brief report on the status of research on the biological effects of lasers. The Chairman added an item of information to the effect that approval had been secured for the updating of the directory of in-house laboratories engaged in biological and medical research.

V. Old Business. There were no items of old business to be discussed.

VI. New Business. The only item of new business was a consideration of the problems of the host laboratory. After discussion, the following resolutions were adopted:

(1) The Panel is convinced that better communication can and should be established between the various toxicologic research efforts of the DOD in-house laboratories.

(2) The Panel urges that Army unit commanders be encouraged to provide better support for the volunteer program of the Army CRDL.

(3) The Panel recommends that DDR&E strongly support the plan for the construction of the originally-programmed \$4.2 million new Clinical Research Facility at Edgewood.

(4) The Panel suggests that the utilization of consultants in psychopharmacology by Army CRDL be expanded.

(5) The Panel advocates that the program of medical follow-ups on volunteers at Army CRDL be considerably enlarged.

(6) The Panel commends the Directorate of Medical Research, Army CRDL, for its efforts to correlate with other laboratories, particularly Walter Reed Army Institute for Research, and recommends that such efforts be increased through a mutual visiting consultant program.


VII. Next Meeting.

The Chairman announced that the Navy would be the host Service for the next meeting and that the Panel would be informed when the details had been worked out. It was suggested and agreed upon that in addition to the format of the first two meetings, the next meeting should be preceded by an executive session on the evening prior to the presentations of the host laboratory.

To the regret of the Panel, the Chairman announced that the next meeting would be his last as his tour with the DOD Defense Science Board would expire at the end of 1963.

VIII. Adjournment.

The second meeting of the DDR&E Advisory Panel on the Medical and Biological Sciences was adjourned by the Chairman at 1145, 20 April 1963.


FREDERICK J. FRESE, JR.
Col, USAF, MC
Executive Secretary
DDR&E Advisory Panel on the
Medical and Biological Sciences

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1. Program of CRDL
2. Distribution List

PROGRAM FOR
DEPARTMENT OF DEFENSE RESEARCH AND ENGINEERING
PANEL ON MEDICAL AND BIOLOGICAL SCIENCES

DATE: 19-20 April 1963

PLACE: Directorate of Medical Research, U. S. Army Chemical Research and Development Laboratories, Edgewood Arsenal, Maryland, Room 101, Building 356

<u>TIME</u>	<u>SUBJECT</u>	<u>SPEAKER</u>
19 April		
0900-0905	Remarks of welcome	Colonel Bauer Dr. Silver
0905-0930	Organization and the mission of CRDL to include: showing film--CRDL Story, brief description of history--elaborating on some parts of the program such as agents search, toxicological screening, testing and developing	
0930-0935	The organization of the Medical Research Directorate	Colonel Bauer
0935-1000	Mode of action and effects of current agent systems (vesicant, irritant, incapacitator, lethal)	Colonel Bauer
1000-1010	Break	Dr. Wills
1010-1040	Medical treatment (anticholinesterase agents and incapacitators)	Dr. Wills
1040-1100	Presentation from Basic Research Program	Sp 4 David S. Engelhardt
1120-1230	Biophysics Division--to include a short moving picture to illustrate ballistic photography, a tour of the laboratories, an actual demonstration of assessment of protective armor and an actual demonstration and set up on the outside range of a wounding experiment	Dr. Dziemian
1230-1330	Lunch - Officers' Club	

<u>TIME</u>	<u>SUBJECT</u>	<u>SPEAKER</u>
1400-1500	Toxicology Division--a description of human estimates, probate curves, etc., a tour of the laboratory including the outside test tunnel which will be set up with CS	Dr. McNamara
1515-1535	Clinical Facility--outline of scope of Volunteer Program, demonstration of chosen subjects undergoing experimentation with VX, 3443, esophageal motility studies, vectorcardiography, physiographs, etc.	Major McClure
1535-1615	Psychotropics	Major Ketchum

20 April

0900 Closed meeting of the DDR&E Advisory Panel

Distribution

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Dr. James A. Baker
Dr. James A. English
Dr. C. F. Gell
Dr. J. Thomas Grayston
Dr. Donald W. Hastings
Dr. Richard A. Kern
Dr. G. M. McDonnell
Dr. Frank W. McKee
Dr. Francis D. Moore
Dr. Harold G. Scheie
Mr. David R. Schwarz
Dr. Leslie Silverman
Dr. Scott N. Swisher
Dr. H. Burr Steinbach
Dr. Victor H. Witten
Dr. Earl H. Wood

Others

B/Gen Robert E. Blount
L/Col David N. Dalton
Surgeon Captain Frank P. Ellis
R/Admiral Calvin B. Galloway, MC, USN
Dr. Wm Hammerschmidt
Dr. Frank W. Hartman
Surgeon Lt Cdr Eric R. Keirstead
L/Col David I. Livermore
Dr. N. Marcuvitz
L/Col James B. Moffett
Capt James A. O'Donoghue
Dr. Chalmers W. Sherwin
Dr. Marion Sulzberger
L/Col Richard R. Taylor