

<b>REFERENCE SERVICE SLIP</b>					DATE <b>5/22/01</b>	NO. <b>18186</b>
NAME OF REQUESTOR <b>RYAN WOOD (WOOD &amp; WOOD LLC)</b>				AGENCY OR ADDRESS		
UNITS OF SERVICE					SOURCE OF REQUEST (Check)	
INFORMATION SERVICE (Number of replies)		RECORDS FURNISHED (Number of items)	TEXTUAL, STILL PICTURES, ETC. (Number of pages)	MOTION PICTURES (Number of feet)	SOUND RECORDINGS (Number of feet)	<input type="checkbox"/> NA Administrative Use
WRITTEN	ORAL					<input type="checkbox"/> Agency of Origin
						<input type="checkbox"/> Other Government
						<input type="checkbox"/> Nongovernment
					REQUEST HANDLED BY <b>JKS</b>	OUTCARD NO.
RG NO. <b>330</b>	STACK AREA <b>190</b>	ROW <b>29</b>	COMPARTMENT <b>67</b>		SHELF <b>68</b>	
RECORD IDENTIFICATION						
<b>ENTRY 341A</b>				<b>BOXES 18-19</b>		
<b>R&amp;D BOARD</b>						
<b>1946-1953</b>						
RECEIVED BY			DATE	RETURNED TO	DATE	
NATIONAL ARCHIVES AND RECORDS ADMINISTRATION					<b>DO NOT REMOVE FROM RECORDS</b>	

<b>REFERENCE SERVICE SLIP</b>					DATE <b>5/21/01</b>	NO. <b>1816</b>
NAME OF REQUESTOR <b>RYAN WOOD</b>				AGENCY OR ADDRESS		
UNITS OF SERVICE					SOURCE OF REQUEST (Check)	
INFORMATION SERVICE (Number of replies)		RECORDS FURNISHED (Number of items)	TEXTUAL, STILL PICTURES, ETC. (Number of pages)	MOTION PICTURES (Number of feet)	SOUND RECORDINGS (Number of feet)	<input type="checkbox"/> NA Administrative Use
WRITTEN	ORAL					<input type="checkbox"/> Agency of Origin
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					REQUEST HANDLED BY <b>JKS</b>	OUTCARD NO.
RG NO. <b>330</b>	STACK AREA <b>190</b>	ROW <b>29</b>	COMPARTMENT <b>67</b>		SHELF <b>45</b>	
RECORD IDENTIFICATION						
<b>ENTRY 341A</b>				<b>Box 331-336</b>		
<b>R&amp;D BOARD</b>						
<b>1946-1953</b>						
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<b>REFERENCE SERVICE SLIP</b>					DATE <b>5/22/01</b>	NO.
NAME OF REQUESTOR <b>RYAN WOOD</b>				AGENCY OR ADDRESS		
UNITS OF SERVICE					SOURCE OF REQUEST (Check)	
INFORMATION SERVICE (Number of replies)		RECORDS FURNISHED (Number of items)	TEXTUAL, STILL PICTURES, ETC. (Number of pages)	MOTION PICTURES (Number of feet)	SOUND RECORDINGS (Number of feet)	<input type="checkbox"/> NA Administrative Use
WRITTEN	ORAL					<input type="checkbox"/> Agency of Origin
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					REQUEST HANDLED BY <b>JKS</b>	OUTCARD NO.
RG NO. <b>330</b>	STACK AREA <b>190</b>	ROW <b>29</b>	COMPARTMENT <b>67</b>		SHELF <b>45</b>	
RECORD IDENTIFICATION						
<b>ENTRY 341A</b>				<b>Box 41-47</b>		
<b>R&amp;D BOARD</b>						
<b>1946-1953</b>						
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**RESTRICTED**  
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JRDB 50/1

JOINT RESEARCH AND DEVELOPMENT BOARD

A N N E X "G"

to Agenda of Fifth Meeting

REPORT OF ACTIVITIES OF COMMITTEES AND INDEPENDENT PANELS

1. Committee on Aeronautics

a. The membership of the Committee on Aeronautics is now completed, Mr. Hartley Rowe having accepted the chairmanship of the Committee.

b. The Committee on Aeronautics will hold its first meeting on 9 January 1947.

2. Committee on Atomic Energy

a. The membership of the Committee on Atomic Energy is now completed, the following civilian members having accepted:

Dr. James B. Conant, Chairman  
 Dr. J. Robert Oppenheimer  
 Dr. C. H. Greenwalt (subject to confirmation)

b. It is anticipated that the Committee will meet shortly after the first of the year.

3. Committee on Electronics

a. The second meeting of the Committee on Electronics was held on 3 December 1946 and the third meeting is scheduled for 29 January 1947.

Annex "a"

- 1 -

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Box 19

R &amp; D Board

R E S T R I C T E D

b. The Committee on Electronics is organizing the following additional Panels:

- (1) Panel on Countermeasures
- (2) Panel on Infrared
- (3) Panel on Electro Acoustics

L. Committee on Geographical Exploration

a. The Committee on Geographical Exploration held its first formal meeting on 10 December 1946 and proposes to hold its next meeting on 29 January 1947.

b. Mr. Sidney Paige has been appointed as Executive Director of the Secretariat. The Committee has discussed and tentatively agreed upon panels to cover the following fields:

- (1) Scientific Instrumentation for Exploration in Arctic and Tropical Areas and Regions of High Altitude.
- (2) Desirable Expeditions and Field Stations to Further Geographical Exploration.
- (3) Progress in Topographic Mapping in the United States and its Territories.
- (4) Geographical Mapping of Areas of Scientific Interest.
- (5) Physiology and Pathology of Human Activities under Extreme Conditions.
- (6) Native Food Supplies for National and Expeditionary Needs.
- (7) Strategic Botany
- (8) Strategic Minerals

5. Committee on Geophysical Sciences

- a. The Committee on Geophysical Sciences held its first meeting on 18 December 1946. In accordance with the directive of the Board, the Committee on Geophysical Sciences has assumed administrative responsibility for the Panel on the Upper Atmosphere and has established a Panel on Atmospheric Electricity to supplant the Army-Navy Atmospheric Electric Committee (formerly the Army-Navy Precipitation Static Committee).

6. Committee on Guided Missiles

- a. The first meeting of the Committee on Guided Missiles was held on 19 December 1946.
- b. The Committee assumed responsibility for the Army-Navy Technical Committee on Guided Missile Test Ranges, and established it as the Panel on Test Range Procedures and Instrumentation of the Committee on Guided Missiles.
- c. The Committee formed an ad hoc panel to plan its modus operandi and report to the Committee at its next meeting.

7. Committee on Long-Range Proving Ground

- a. The second meeting of the Committee on Long-Range Proving Ground was held on 6 December 1946 and the third meeting was held on 20 December 1946. The fourth meeting is scheduled for 15 January 1946.

Annex "G"

P E S T R I C T E D

- b. The Committee is conducting investigations and hearings with eminent scientists with the view toward determining the required characteristics of a long-range proving ground. The Committee has arranged that the Panel on Test Range Procedures and Instrumentation of the Guided Missiles Committee will act for it and report to it in this field.
- c. The Committee is establishing a Panel on Basic Facilities.
8. Committee "X"
- a. This Committee will have its first meeting on 14 January 1947.
- b. The questions transmitted by the Board to the Committee at its fourth meeting are under consideration by the Committee.
9. Panel on Proximity Fuzes
- a. The Panel on Proximity Fuzes held its third meeting on 6 December 1946 and will hold its fourth meeting on 8 January 1947. Dr. Russell B. Wright has been appointed as the Panel Director.

JRDB 13/1

JOINT RESEARCH AND DEVELOPMENT BOARD

Annex E  
to Agenda of Second Meeting

DIRECTIVE

FORMATION OF COMMITTEE ON ELECTRONICS

ORGANIZATION

1. The Committee on Electronics is established as an agency of the Joint Research and Development Board (JRDB) in order that the charter of the Board may be implemented in the field of electronics.

OBJECTIVE

2. The fundamental purpose of the Committee on Electronics shall be the continuing study, evaluation, improvement and allocation of electronic research and development programs in relation to the overall aims of the national defense effort, and to the available and potential store of scientific information, personnel and facilities leading to the formulation of an integrated program in this field.

MEMBERSHIP

3. The Committee on Electronics shall consist of
  - a. Three civilian members, including the chairman, appointed by the chairman of the JRDB.
  - b. Two members appointed by the Secretary of War.
  - c. Two members appointed by the Secretary of the Navy.
 Members shall serve for a term of one year, or until their successors are appointed.
4. Each member shall designate a deputy with plenary powers to substitute for him whenever necessary. Appointments of the members of the Committee and their deputies are subject to the approval of the Board.

PROCEDURE

5. The Committee on Electronics shall be encouraged to function as an independent entity within the limits of its terms of

RG 330  
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R R O Board

reference. In accordance with the Rules of the Board, the Committee is authorized:

- a. To employ professional and other personnel as necessary to discharge its responsibilities under a budget authorized by the Board through its Executive Secretary.
- b. To establish its own administrative procedures.
- c. To organize its own secretariat.
- d. To establish such supporting panels and consultant agencies as it may require.

The Executive Secretary of the Board is designated to act for the Board in administrative, budgetary, personnel and procedural matters in relationships between the Committee and the Board.

In order that the Committee may fulfill essential functions

- a. as an informative agency,
- b. as a representative agency providing full consideration of viewpoints of active operating agencies,
- c. as an executive and judicial agency,

a major agency of the Army or Navy having direct interest in the functions of the Committee, and not represented by a regular member, may formally designate a qualified representative to act as an associate member as specified by the rules of the Board.

8. Action of the Committee shall be effectuated in accordance with the Rules of Organization and Procedure of the Board,

#### TERMS OF REFERENCE

9. In pursuit of its stated objective the Committee on Electronics shall
- a. (1) Obtain complete information as required on progress, programs, plans, and budgets in the field of electronics, considering information from home and abroad.
  - (2) Obtain through the Strategical Council of the JkDB information on such aspects of overall planning for

national defense as may be needed in formulating an adequate electronics program.

b. Analyze and evaluate this information in order to:

- (1) Focus constant emphasis upon the major goals and major problems in the field of electronics.
- (2) Assess the adequacy of programs and plans directed toward solving these problems and achieving these goals, including consideration of the merit and effectiveness with which individual projects and programs are handled.
- (3) Determine the presence of undesirable duplication of effort in the field of electronics with due regard to the responsibility for fostering competition where the added progress achieved thereby justifies the added expense.
- (4) Determine the presence of serious gaps which exist in the program.
- (5) Assess the adequacy of facilities, personnel, and equipment currently available and estimate future requirements.
- (6) Appraise the degree of coordination attained in electronics programs, including that reflected in budget requests.

c. (1) Present surveys, informative studies and digests of general value.

(2) Inform the Strategic Council of JRDB as to the implications upon plans, operations and strategy of new weapons, equipment and techniques in the field of electronics.

(3) Inform the JRDB of such findings as it may require to implement its charter in the field of electronics.

d. In accordance with regular procedures of the Board:

(1) Determine policies for increasing the effectiveness with which research and development in the field of electronics will contribute to strong and unified national defense.



(2) Allocate, and when desirable reallocate, responsibility between the services for research and development projects in the existing field of electronics and for new fields of electronics which should receive emphasis, considering optimum employment of personnel and facilities, relative importance, operational and tactical requirements, new developments, and relative skill and effectiveness in conduct of projects.

(3) Specify means whereby maximum advantage may be taken of critical resources and new advances, solution of problems may be speeded, undesirable duplication, waste or neglect may be avoided, and liaison, cooperation and direct dealing among agencies may be furthered.

10. a. The subject matter for which the Electronics Committee is responsible shall include radar, communications, vacuum tubes, infra-red phenomena and devices, applicational aspects of radiation phenomena, and such other fields as fall within the definition of electronics and are not the responsibility of other agencies of the JRDB. Questions of overlapping interest between committees shall be resolved through the Secretariat of the Board.
- b. Cooperation shall be maintained with agencies interested in electronics outside the JRDB organization. In the case of the Joint Communications Board, it is expected that certain research and development functions will be transferred to the JRDB Electronics Committee but that continued overlapping of interest will be necessary and desirable. It is anticipated that upon approval of the Joint Chiefs of Staff, the Vacuum Tube Development Committee will become a continuing panel of the Electronics Committee.

THE RESEARCH AND DEVELOPMENT BOARD  
Washington 25, D. C.

RDB 13/2,  
Draft 1  
18 Feb. 1948  
EC 158/1

DIRECTIVE

COMMITTEE ON ELECTRONICS

ORGANIZATION

1. The Committee on Electronics is established as an agency of the Research and Development Board (RDB).

OBJECTIVE

2. The objective of the Committee on Electronics is to implement the directive of the Board in the field of Electronics.

MEMBERSHIP

3. The Committee on Electronics shall consist of:

- a. Three civilian members, including the Chairman, nominated by the Chairman of the RDB.
- b. Not more than three members nominated by the Department of the Army.
- c. Not more than three members nominated by the Department of the Navy.
- d. Not more than three members nominated by the Department of the Air Force.

4. A deputy with plenary powers for each member may be nominated by the appropriate authority. Appointments of members of the Committee and their deputies are subject to the approval of the Board.

5. Members and deputies shall serve for a term of one year, or until their successors are appointed.

6. Any major agency of the Army, Navy, or Air Force, having direct interest in the functions of the Committee and not represented by a regular member may formally designate a qualified representative to act as an associate member as specified by the Rules of Organization and Procedure of the Board.

## PROCEDURE

7. The Committee on Electronics is encouraged to function as an independent entity within the limits of its terms of reference. In accordance with the Rules of Organization and Procedure of the Board, the Committee is authorized:

- a. To employ professional and other personnel as necessary to discharge its responsibilities under a budget authorized by the Board through the Executive Secretary.
- b. To establish its own administrative procedures.
- c. To organize its own Secretariat.
- d. To establish such supporting panels and consultant agencies as it may require.

8. On internal matters of procedure, administration, budgets, and personnel, and in relationships between the Committee and the Board or other Committees, the Secretariat of the Committee shall function within the administrative framework established by the Executive Secretary, RDB.

9. Action of the Committee shall be effectuated in accordance with the Rules of Organization and Procedure of the Board.

## TERMS OF REFERENCE

10. In pursuit of its stated objective, the Committee on Electronics shall:

- a. Continuously survey research and development activities in the field of Electronics, both within and without the Military Establishment, and obtain necessary information:
  - (1) concerning U.S. and foreign progress, programs, plans and budgets in the field of electronics; and
  - (2) from the Joint Chiefs of Staff through the Executive Secretary, RDB, on such aspects of overall planning for national defense as may be needed in formulating an adequate program for research and development in the field of electronics.
- b. Analyze and evaluate this information in order to:
  - (1) determine the major goals and problems in the field of electronics and direct constant emphasis upon them;

- (2) assess the adequacy of plans, programs, and projects and assess the merit and effectiveness with which programs are handled;
- (3) determine the presence of unjustifiable duplication of effort in the field of electronics.
- (4) determine the presence of serious gaps which exist in the programs;
- (5) assess the adequacy of facilities, personnel and equipment currently available and estimate future requirements; and
- (6) assess the degree of coordination obtained in electronics programs including that reflected in budget requests.

c. Prepare and present reports and informative papers in order to:

- (1) inform the RDB and authorized agencies of the Military Establishment of the facts and trends in the field of electronics necessary to assure continuing and increasing progress in that field;
- (2) inform the Joint Chiefs of Staff, through the Executive Secretary, RDB, as to the implications on plans, operations, and strategy, of new weapons, equipment and techniques in the field of electronics; and
- (3) inform the Munitions Board, through the Executive Secretary, RDB, of the requirements for materials and components in research and development programs in the Military Establishment in the field of electronics, particularly with respect to critical and strategic materials.

d. In accordance with regular procedures of the Board, the Committee shall:

- (1) prepare not less frequently than once a year, an integrated plan of research and development for military purposes in the field of electronics;
- (2) allocate and, when desirable, reallocate responsibility among the military departments for research and development programs in the field of electronics;
- (3) specify means whereby maximum advantage may be taken of critical resources and new advances,

solution of problems may be speeded, undesirable duplication, waste or neglect may be avoided, and liaison, cooperation and direct dealing among agencies may be furthered.

- (4) present to the Board, in advance of the presentation of annual budget estimates, recommendations for expenditures for research and development programs and facilities in the field of electronics for military purposes; and
- (5) collaborate with other committees of the RDB on matters of common interest.

#### FIELD OF INTEREST

11. The subject matter for which the Committee on Electronics is responsible shall include radar, communications, vacuum tubes, infra-red phenomena and devices, applicational aspects of radiation phenomena, and such other fields as fall within the definition of electronics and are not the responsibility of other agencies of the RDB.

#### LIAISON

12. The Committee shall maintain liaison with other groups and agencies, both within and outside RDB, which have related interests. The Executive Secretary of the Board will collaborate in arranging effective liaison. Questions arising because of overlapping or conflicting interests between agencies of the Board shall be resolved through the Executive Secretary of the Board.

BY DIRECTION OF THE BOARD:

L. R. HAFSTAD  
Executive Secretary

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R  
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T

THE RESEARCH AND DEVELOPMENT BOARD  
Washington 25, D. C. .

DIRECTIVE

COMMITTEE ON ELECTRONICS

ORGANIZATION

1. The Committee on Electronics is established as an agency of the Research and Development Board (RDB).

OBJECTIVE

2. The objective of the Committee on Electronics is to implement the directive of the Board in the field of Electronics.

MEMBERSHIP

3. The Committee on Electronics shall consist of:

- a. Three civilian members, including the Chairman, nominated by the Chairman of the RDB.
- b. Not more than three members nominated by the Department of the Army.
- c. Not more than three members nominated by the Department of the Navy.
- d. Not more than three members nominated by the Department of the Air Force.

4. A deputy with plenary powers for each member may be nominated by the appropriate authority. Appointments of members of the Committee and their deputies are subject to the approval of the Board.

5. Members and deputies shall serve for a term of one year, or until their successors are appointed.

6. Any major agency of the Army, Navy or Air Force, having direct interest in the functions of the Committee and not represented by a regular member may formally designate a qualified representative to act as an associate member upon request of the department concerned as specified by the Rules of Organization and Procedure of the Board.

*Item  
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Agenda  
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## PROCEDURE

7. The Committee on Electronics is encouraged to function as an independent entity within the limits of its terms of reference. In accordance with the Rules of Organization and Procedure of the Board, the Committee is authorized:

- a. To employ professional and other personnel as necessary to discharge its responsibilities under a budget authorized by the Board through the Executive Secretary.
- b. To establish its own administrative procedures.
- c. To organize its own Secretariat.
- d. To establish such supporting panels and consultant agencies as it may require.

8. On internal matters of procedure, administration, budgets, and personnel, and in relationships between the Committee and the Board or other Committees, the Secretariat of the Committee shall function within the administrative framework established by the Executive Secretary, RDB.

9. Action of the Committee shall be effectuated in accordance with the Rules of Organization and Procedure of the Board.

## TERMS OF REFERENCE

10. In pursuit of its stated objective, the Committee on Electronics shall:

- a. Continuously survey research and development activities in the field of Electronics, both within and without the Military Establishment, and obtain necessary information:
  - (1) concerning U.S. and foreign progress, programs, plans and budgets in the field of electronics; and
  - (2) from the Joint Chiefs of Staff through the Executive Secretary, RDB, on such aspects of overall planning for national defense as may be needed in formulating an adequate program for research and development in the field of electronics.
- b. Analyze and evaluate this information in order to:
  - (1) determine the major goals and problems in the

field of electronics and direct constant emphasis upon them:

- (2) assess the adequacy of plans, programs, and projects and assess the merit and effectiveness with which programs are handled;
  - (3) determine the presence of unjustifiable duplication of effort in the field of electronics;
  - (4) determine the presence of serious gaps which exist in the programs;
  - (5) assess the adequacy of facilities, personnel and equipment currently available and estimate future requirements; and
  - (6) assess the degree of coordination obtained in electronics programs including that reflected in budget requests.
- c. Prepare and present reports and informative papers in order to:
- (1) inform the RDB and authorized agencies of the Military Establishment of the facts and trends in the field of electronics necessary to assure continuing and increasing progress in that field;
  - (2) inform the Joint Chiefs of Staff, through the Executive Secretary, RDB, as to the implications on plans, operations, and strategy, of new weapons, equipment and techniques in the field of electronics; and
  - (3) inform the Munitions Board, through the Executive Secretary, RDB, of the requirements for materials and components in research and development programs in the Military Establishment in the field of electronics, particularly with respect to critical and strategic materials.
- d. In accordance with regular procedures of the Board, the Committee shall:
- (1) prepare not less frequently than once a year, an integrated plan of research and development for military purposes in the field of electronics;



- (2) allocate and, when desirable, reallocate responsibility among the military departments for research and development programs in the field of electronics;
- (3) specify means whereby maximum advantage may be taken of critical resources and new advances, solution of problems may be speeded, undesirable duplication, waste or neglect may be avoided, and liaison, cooperation and direct dealing among agencies may be furthered.
- (4) present to the Board, at appropriate times as specified in the current RDB Schedule of Operations, recommendations as to the appropriate scope of effort for research and development programs and facilities in the field of electronics for military purposes; and
- (5) collaborate with other committees of the RDB on matters of common interest.

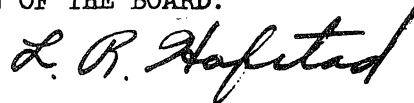
#### FIELD OF INTEREST

11. The subject matter for which the Committee on Electronics is responsible shall include radar, communications, vacuum tubes, infra-red phenomena and devices, applicational aspects of radiation phenomena, and such other fields as fall within the definition of electronics and are not the responsibility of other agencies of the RDB.

#### LIAISON

12. The Committee shall maintain liaison with other groups and agencies, both within and outside RDB, which have related interests. The Executive Secretary of the Board will collaborate in arranging effective liaison. Questions arising because of overlapping or conflicting interests between agencies of the Board shall be resolved through the Executive Secretary of the Board.

BY DIRECTION OF THE BOARD:



L. R. HAFSTAD  
Executive Secretary

JRDB (X/1)

JOINT RESEARCH AND DEVELOPMENT BOARD

Annex J  
to Agenda of 2nd Meeting

TRANSFER OF RESEARCH AND DEVELOPMENT FUNCTIONS  
OF THE JOINT COMMUNICATIONS BOARD TO ELECTRONICS  
COMMITTEE OF THE JOINT RESEARCH AND DEVELOPMENT BOARD

1. The following communication is submitted for consideration of the Board for transmission to the Joint Chiefs of Staff relating to the transfer of research and development functions of the Joint Communications Board and Committees and agencies thereof.

FROM: Joint Research and Development Board

TO: Joint Chiefs of Staff

SUBJECT: Establishment of Committee on Electronics by  
Joint Research and Development Board.

References: (a) JRDB letter 3 July 1946.

Enclosure: (A) Charter, JRDB Electronics Committee.

1. Pursuant to the responsibilities undertaken for coordination of research and development as set forth by Reference (a) the Board has established the Committee on Electronics by directive, Enclosure (A).

2. It is suggested, to avoid duplication of effort, and to expedite organization and integration of electronic research and development that consideration be given by the Joint Chiefs of Staff to the transfer from the Joint Communications Board and Committees or agencies thereof such personnel, facilities and subjects relating to research and development as may be needed by JRDB in establishing the Committee on Electronics and panels thereof. It is further suggested that appropriate files of the Joint Communications Board dealing with these matters be transferred to or duplicated by JRDB.

3. The following subjects are believed to be appropriate for consideration:

- a. Matters under the cognizance of Coordination of Research and Development Committee.
- b. The Vacuum Tube Development Committee.

c. Research and Development functions of the following Committees:

- (1) Nan Committee
- (2) Wave Propagation Committee
- (3) Radar Committee
- (4) Radio Committee, and
- (5) Aids to Navigation Committee

4. The JRDB has authorized the Executive Secretary of the Board to represent it in consummating the transfer of such personnel, facilities and files as may be approved by the Joint Chiefs of Staff.

**SECRET**

RDB 29/2 draft 1 THE RESEARCH AND DEVELOPMENT BOARD  
 18 Feb 48  
 EC 154/1  
 Washington 25, D. C.

Log No. 16726

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DIRECTIVECOMMITTEE ON BIOLOGICAL WARFAREORGANIZATION

1. The Committee on Biological Warfare is established as an agency of the Research and Development Board (RDB).

OBJECTIVE

2. The objective of the Committee on Biological Warfare is to implement the directive of the Board in the field of biological warfare.

MEMBERSHIP

3. The Committee on Biological Warfare shall consist of:

- a. Three civilian members, including the Chairman, nominated by the Chairman of the RDB.
- b. Not more than two members nominated by the Department of the Army.
- c. Not more than two members nominated by the Department of the Navy.
- d. Not more than two members nominated by the Department of the Air Force.
- e. One member nominated by the Director, United States Public Health Service.
- f. One member representing the United States Department of Agriculture.

4. A deputy with plenary powers for each member may be nominated by the appropriate authority. Appointments of members of the Committee and their deputies are subject to the approval of the Board.

5. Members and deputies shall serve for a term of one year, or until their successors are appointed.

6. Any major agency of the Army, Navy, or Air Force, having direct interest in the functions of the Committee and not represented by a regular member may formally designate a qualified representative to act as an associate member as specified by the Rules of Organization and Procedure of the Board.

**SECRET**

S E C R E TPROCEDURE

7. The Committee on Biological Warfare is encouraged to function as an independent entity within the limits of its terms of reference. In accordance with the Rules of Organization and Procedure of the Board, the Committee is authorized:

- a. To employ professional and other personnel as necessary to discharge its responsibilities under a budget authorized by the Board through the Executive Secretary.
- b. To establish its own administrative procedures.
- c. To organize its own Secretariat.
- d. To establish such supporting panels and consultant agencies as it may require.

8. On internal matters of procedure, administration, budgets, and personnel, and in relationships between the Committee and the Board or other Committees, the Secretariat of the Committee shall function within the administrative framework established by the Executive Secretary, RDB.

9. Action of the Committee shall be effectuated in accordance with the Rules of Organization and Procedure of the Board.

TERMS OF REFERENCE

10. In pursuit of its stated objective, the Committee on Biological Warfare shall:

- a. Continuously survey research and development activities in the field of biological warfare, both within and without the Military Establishment, and obtain necessary information:
  - (1) concerning U. S. and foreign progress, programs, plans and budgets in the field of biological warfare; and
  - (2) from the Joint Chiefs of Staff, through the Executive Secretary, RDB, on such aspects of overall planning for National Defense as may be needed in formulating an adequate program for research and development in the field of biological warfare.
- b. Analyze and evaluate this information in order to:
  - (1) determine the major goals and problems in the field of biological warfare and direct constant emphasis upon them;

S E C R E T

- (2) assess the adequacy of plans, programs and projects, and assess the merit and effectiveness with which programs are handled;
- (3) determine the presence of unjustifiable duplication of effort in the field of biological warfare;
- (4) determine the presence of serious gaps which exist in the programs;
- (5) assess the adequacy of facilities, personnel and equipment currently available and estimate future requirements; and
- (6) assess the degree of coordination obtained in biological warfare programs, including that reflected in budget requests.

c. Prepare and present reports and informative papers in order to:

- (1) inform the RDB and authorized agencies of the Military Establishment of the facts and trends in the field of biological warfare necessary to assure continued and increasing progress in that field;
- (2) inform the Joint Chiefs of Staff, through the Executive Secretary, RDB, as to the implications on plans, operations, and strategy of new weapons, equipment and techniques in the field of biological warfare; and
- (3) inform the Munitions Board, through the Executive Secretary, RDB, of the requirements for materials and components in the research and development programs of the Military Establishment in the field of biological warfare, particularly with respect to critical and strategic materials.

d. In accordance with regular procedures of the Board, the Committee shall:

- (1) prepare not less frequently than once a year, an integrated plan of research and development in the field of biological warfare;
- (2) allocate and, when desirable, reallocate responsibility among the Military Departments for research and development programs in the field of biological warfare;
- (3) specify means whereby maximum advantage may be taken of critical resources and new advances, solution of problems may be speeded, undesirable duplication,

S E C R E T

waste or neglect may be avoided; and liaison, cooperation, and direct dealing among agencies may be furthered;

- (4) present to the Board, in advance of the presentation of the annual budget estimates, recommendations for expenditures for research and development programs and facilities in the field of biological warfare; and
- (5) collaborate with other committees of the RDB on matters of common interest.

FIELD OF INTEREST

11. The field of interest of the Committee on Biological Warfare shall include the use of and defense against all biological agents, their toxic products and chemicals used as plant growth regulators as agents to produce death or casualties of man, animals and/or plants.

LIAISON

12. The Committee shall maintain liaison with other groups and agencies, both within and outside the RDB, which have related interests. The Executive Secretary of the Board will collaborate in arranging effective liaison. Questions arising because of overlapping or conflicting interests between agencies of the Board shall be resolved through the Executive Secretary of the Board.

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By direction of the Board:

L. R. HAFSTAD  
Executive Secretary

**CONFIDENTIAL**

THE RESEARCH AND DEVELOPMENT BOARD  
Washington 25, D. C.

RDB 29/3

Agenda, 33rd Meeting, RDB  
12 July 1950

Item 8 Reorganization of the Panel on Programs, Committee on  
Biological Warfare

1. THE PROBLEM

To consider the proposed reorganization of the Panel on Programs, Committee on Biological Warfare, and to resolve the Navy dissent from the Committee's approval of the draft directive for the new panels.

2. DISCUSSION

2.1 At its 24th meeting, the Committee on Biological Warfare approved unanimously the reorganization of its Panel on Programs into five separate panels; namely, Panels on Man, Animals, Crops, Protection, and Dissemination. The Committee considered this change desirable in order to attract qualified civilians who sometimes object to serving at a subpanel or working group level. Furthermore, this would allow the military departments to make direct assignments to panels. At present the secretariat assigns military members of the Panel on Programs to working groups. The Committee believes also that the advantages of the present structure which provides for complete coordination will be retained by joint meetings of all panels for indoctrination purposes and coordination of panel reports by meetings of the chairmen of the panels concerned.

2.2 As a corollary of the reorganization, the committee approved, by a vote of 7 to 2, a proposed directive for the Panel on Man, which would serve also as a model for the other panel directives. The Navy members voted against this action and subsequently filed a formal dissent, CX 43/1, attached.

2.3 The Navy's objections relate to the fact that no provision is made for associate members. The Navy maintains that the provision of only one member and one deputy member for each panel from each department would deprive several Bureaus of the Navy of representation which they consider highly desirable. The Navy proposes that the draft panel structure be modified to include either one member, one deputy member, and three associates,

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see also CX 43/1  
CX 43/1



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or two members and two deputies from the Navy.

2.4 It was the intent of the majority to accomplish the desired results of the reorganization without increasing the total number of civilian and military representatives. Non-members would be permitted to attend panel meetings at which items of interest to their agencies are considered. The Committee Secretariat has indicated that additional copies of material sent to panel members will be made available to meet departmental requirements. The present Panel on Programs has 42 members. The five new panels would have a total of 43 members. If allowance were made for one associate member from each Department on each panel, the total number would be 58. It is questionable whether the Management Committee, OSD, would approve the establishment of the proposed panels if it involves an increase in personnel.

3. RECOMMENDATIONS

3.1 It is recommended that the Board:

3.1.1 Resolve the Navy dissent in favor of the majority.

3.1.2 Approve the attached draft directive for the Panel on Man, to serve also as a model for the directives of the other four panels.

Attachments: CX 43/1, Memo to Chairman, Biological Warfare Committee, RDE, from Navy Members, Biological Warfare Committee, dated 26 May 1950, "Navy Dissent on Panel Reorganization"

CX 12/2, Draft Directive, Panel on Man, Committee on Biological Warfare, dated 3 May 1950

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RDB 29/4

12 July 1950

MEMORANDUM FOR THE ADMINISTRATIVE OFFICE  
OFFICE OF THE SECRETARY OF DEFENSE

SUBJECT: Reorganization of the Panel on Programs, Committee on Biological Warfare

ATTACHED: CX 12/2, Draft, Directive of Panel on Man, Committee on Biological Warfare

1. In accordance with the 10 May 1949 directive from General Joseph T. McNarney concerning the establishment of joint boards and committees, the Research and Development Board submits the following proposed actions relating to the organization of the Committee on Biological Warfare.

2. The Board, at its 33rd meeting on 12 July 1950, approved the recommendation of the Committee on Biological Warfare that their present Panel on Programs be reorganized into five separate panels; namely, Panels on Man, Animals, Crops, Protection, and Dissemination. This change is considered desirable in order to attract qualified civilians and to permit the military departments to make direct assignments to panels. This improvement in operations will be accomplished without increasing the total number of civilian and military representatives.

3. The draft directive for the Panel on Man will serve as a model for the other panel directives. The proposal for activation of the five panels and the draft directive of the Panel on Man are submitted for review by the Administrative Office and approval by the Executive Secretary of the Office of the Secretary of Defense.

4. It is anticipated that these panels will be active for more than one calendar year.

Signed, F. H. Richardson

F. H. RICHARDSON  
Deputy Executive Secretary

Attachment.

FILE IN 27-25

~~CONFIDENTIAL~~

File

RDB 28/6

MEMORANDUM TO: Executive Director  
Committee on Biological Warfare

SUBJECT: Reorganization of the Panel on  
Programs

REFERENCE: RDB 28/6, Item 8, Agenda and Minutes  
of 33rd Meeting, RDB

1. At its 33rd meeting on 12 July 1950, the Board approved CX 12/2, draft directive for the Panel on Man, to serve also as a model for the directives of the other four panels as proposed by your committee.

ERIC A. WALKER  
Executive Secretary

B.Tanner/bec/8/2/50  
Ext. 77288

*see copy*

23-17 FILES

## THE JOINT RESEARCH AND DEVELOPMENT BOARD

22 January 1947

## JRDB PERSONNEL ROSTER

The attached personnel roster shows the names of personnel formally associated with the Board as of 15 January 1947, with their addresses, telephone numbers, and primary position where they are not full-time staff members. The list is alphabetical by organization unit. The membership of special JRDB committees is not included in this roster. The roster of special committees may be obtained upon application by authorized personnel to the Administrative Secretary of the Board.

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MANAGEMENT DIVISIONSecretariat

<u>Name</u>	<u>Title</u>	<u>Office</u>	<u>Tel. No.</u>	<u>Residence &amp; Home Tel. No.</u>
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Anderson, Shirleylee	Receptionist	Corridor	W-78506	1350 Jefferson St. NW RA 9084
Coe, Charlotte	Clerk-Steno	3161	W-78227	1306 Gallatin St. NW GE 5889
Disbrow, Marjorie	Pers-File Clerk	3162	W-78261	Arlington Farms, GL 6900
Franco, Kathryn	Asst. Admin. Officer	3161	W-78227	Gadsden Hall, 30 Flattsburg Ct. NW, WO 9826
Hardman, Marcus T.	Messenger	Corridor	W-78227	1774 Stanton Terr. SE
Hurwick, Florence C.	Clerk-Steno	3161	W-78227	1445 Otis Pl. NW, Apt. 404 AD 5620, x 404
Judy, Herbert A.	Messenger	3161	W-78227	724 Seventh St. NW, DI 3055
Long, Marie	Clerk-Steno	3161	W-78227	Barton Hall, G-207 West Potomac Park EX 6565, x 47
Mulcahy, Christina	Clerk-Steno	3161	W-78227	2145 California St. NW DU 4806
Pennypacker, Opal B.	Clerk-Steno	3161	W-78227	510 Eleventh St. SE
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Radford, J. A.	Travel Clerk	3161	W-78228	3726 Connecticut Ave. NW EM 4320
Weaver, Dorothy	Clerk-Steno	3162	W-78261	Kansas Hall, Arl. Farms GL 6900
Weyandt, Maxine H.	Clerk-Steno	3161	W-78228	2010 Pierce Mill Rd. NW DU 0980
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Black, Lt. Col. E. F.	Army Member	3182	W-79219	5804 Roosevelt St. Bethesda, Md., WI 5231
Cornell, Dr. S. D.	Acting Exec. Dir. Comt. on Guided Missiles	3177	W-76291	3022 Macomb St., NW OR 0885
Emberson, Richard	Technical Advisor	3182	W-77360	2031 34th St. SE LI 4781
Jacob, John B.	Acting Exec. Dir. Comt. on Aeronau- tics	3179	W-76485	208 Virginia Ave. Alexandria, Va., TE 1240
Martin, Mary R.	Sec. Asst. to Chief	3182	W-76602	3525 Davenport St. NW OR 2650
McCoy, Col. H. M.	Army Member	3182	W-76233	
Segal, Henry L.	Reports Analyst	3182	W-76233	2148 Eads St. So. Arlington, Va.

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Appleton, Maj. M. L. Jr., USMC	Navy Member	3170	W-76142	3331 P St. NW, MI 0869
Conrad, Comdr. H. E.	Navy Member	3169	W-77039 N-3133	1140 S. Edison St., Arlington, Va., CH 9172
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Putter, Ritzie Lee	Clerk-Typist	3166	W-78230	2700 Allison, Apt. 3 Mt. Ranier, Md.
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Stewart, Frances		"	"	1125 Maryland Ave., NE Apt. 21
Taylor, Easter May	Steno	"	"	621 East Capitol St. FR 5914
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THE RESEARCH AND DEVELOPMENT BOARD  
Washington 25, D. C.

Agenda to 11th Meeting

ITEM Committee Recommendations on FY 1949 Budget.

Attachments: Review of RDB Committee Reports and FY 1949 Budget Recommendations. RDB 37/5.

The Committee reports and recommendations regarding the FY 1949 research and development budget have been reviewed and used as indicated in attachment (A).

Recommendations for additional Board action on the committee proposals have been formulated and are submitted for approval:

a) that the Board note that the Aeronautics, Biological Warfare, Electronics, Guided Missiles, Geographical Exploration, Geophysical Sciences Committees and Proximity Fuse Panel all recommend support of greater expenditures for research and development in FY 1949 than were provided in the A (under the ceiling) FY 1949 Budget.

b) that the Board note that only in the cases of the Proximity Fuse Panel and Biological Warfare Committee were recommendations based on a complete study of their respective fields and supported by really well documented evidence and valid arguments.

c) that the Board does not release nor endorse as expressions of Board opinion any of the committee statements regarding the FY 1949 research and development budget.

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