



OFFICE OF THE DIRECTOR OF DEFENSE RESEARCH AND ENGINEERING  
Washington, D. C. 20301

MINUTES

EXECUTIVE COMMITTEE  
DEFENSE SCIENCE BOARD

95DSB

8 January 1964

Room 3E-1060, The Pentagon

10 February 1964

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FILE NAME: Programs Nuclear Weapons Effect  
LOCATION:  
Box # 1

ATTENDANCE LIST

Executive Committee Members

Dr. Frederick Seitz, Chairman	Dr. Lloyd P. Smith
Dr. Allen E. Puckett, Vice Chairman	Dr. H. Guyford Stever
Dr. Thomas E. Caywood	Dr. William W. Hammerschmidt,
Dr. Clifford C. Furnas	Executive Secretary

Invited Participants

Dr. Harold Brown	Director of Defense Research and Engineering
Lt. Gen. Wm. J. Ely, USA	Deputy Director of Defense Research and Engineering (Administration & Management)
Dr. Chalmers W. Sherwin	Deputy Director of Defense Research and Engineering (Research and Technology)
Dr. Albert C. Hall	Deputy Director of Defense Research and Engineering (Space)
Mr. John B. Macauley	Assistant to the Director of Defense Research and Engineering
Dr. Allen V. Astin	Member, Defense Science Board
Mr. Harold A. Wheeler	Member, Defense Science Board
Dr. Nathan Marcuvitz	Assistant Director (Research) ODDR&E
Mr. James W. Roach	Assistant Director (Engineering Management), ODDR&E
Mrs. Astrid W. Kraus	Executive Assistant (Manpower) ODDR&E
Mr. Edward M. Glass	Special Assistant to Deputy Director of Defense Research and Engineering (Research and Technology)
Dr. Lawton M. Hartman	Special Assistant to Deputy Director of Defense Research and Engineering (Research and Technology)

  
ITEM 1 - Call to Order

The Chairman called the meeting to order at 0945, 8 January 1964, in Room 3E-1060, The Pentagon, with those present as listed above.

The minutes of the preceding meeting, held on 20 November 1963, were approved as previously circulated.

The Chairman announced that Mr. William Littlewood had retired from the Board and Executive Committee on 31 December 1963 at the expiration of his term of appointment. He will be succeeded on the Executive Committee by Dr. Ernst Weber.


The Chairman announced that the final report of the Stever Subcommittee on "The Military Role in Space" had been printed and was ready for discussion with Dr. Brown and forwarding to Secretary McNamara.


The next regular meeting of the Executive Committee will be held in the Pentagon on Wednesday, 11 March 1964.

ITEM 2 - Subcommittee on DOD Research Policy

Dr. Seitz, who continued to chair the Subcommittee through this meeting, introduced this item. He commented that earlier in the morning Dr. Brown had talked with him about the ebb-tide that is setting in for Defense research, development, test and evaluation (RDT&E) appropriations. This change has forced, and will continue to force, difficult decisions on all RDT&E programs including major research projects.

Dr. Chalmers Sherwin, Deputy DDR&E for Research and Technology, discussed optimal funding strategies in this connection. He was particularly concerned about the best allocation of funds between research and exploratory development. Research is essential and must continue to be strongly supported; its budget now is about \$300 million per year, exclusive of research paid for by procurement funds (IR&D). Exploratory development also has a tremendous potential for saving money during later stages of development. The future savings that result from this program--now about \$1.2 billion per year--may indeed be more demonstrable than those resulting from research. These and other program matters were discussed by Dr. Sherwin,





Dr. Marcuvitz (the Assistant DDR&E for Research) and the Executive Committee for the remainder of the hour.

ACTION TAKEN:

The Subcommittee will issue a first report shortly and will be reconstituted with Dr. Furnas as Chairman.

ITEM 2A - North Atlantic Treaty Organization

At the request of the Chairman, Mr. Macauley, the Assistant to the Director, outlined some problems in NATO organization connected with the proposed new Defense Research Directors Committee. Specific problems include the organization of the committee itself, its relation to the Science Committee, and its relation to the Assistant Secretary General for Scientific Affairs, currently Professor William Allis of MIT.


ACTION TAKEN:

The Executive Committee expressed its continued interest in these important problems concerned with a viable NATO organization.

ITEM 3 - Subcommittee on Technical Personnel

Dr. Astin, the subcommittee chairman, began the discussion by remarking that the subcommittee should now get under way as planned. (It had been agreed that it was not to become active until January 1964 because of previous commitments of its members.) To that end a preliminary bibliography of material had been assembled. The first step should be to review recommendations contained in the listed reports.

Mr. Edward M. Glass, a special assistant to Dr. Sherwin for laboratory and personnel affairs, started the review just mentioned. He reported on progress made in implementing (a) the Bell Committee's Report to the President (April 1962), (b) the DSB report on "Government In-House Laboratories" (September 1962), and (c) the Astin Panel report entitled "The Competition for Quality" made to the Federal Council for Science and Technology and endorsed in substance by President Kennedy. Progress appears to be good but much remains to be done.



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Mrs. Astrid Kraus, Executive Assistant for Manpower, commented on the limited use now being made of authority already granted to improve the personnel situation.

ACTION TAKEN:

The Subcommittee will meet and report at the March meeting of the Executive Committee.

ITEM 4 - Independent Research and Development

Mr. James W. Roach, Assistant DDR&E for Engineering Management, reported on the status of the current review of the regulations covering independent research and development (IR&D). This is technical activity chargeable to contracts as an allowable overhead expense. The review now under way represents a substantial departure from some major concepts of the Armed Services Procurement Regulations (ASPR XV) now in force in this area.

The new proposals are not yet firm and a vigorous discussion of their possible effects--good and bad--ensued.

ACTION TAKEN:

The Executive Committee expressed its concern over some features of the proposed regulations.

ITEM 5 - Subcommittee on Management of Research and Exploratory Development

The chairman of this subcommittee, Mr. Wheeler, opened the discussion. He reported briefly on the subcommittee meeting held in the Pentagon on 21 November 1963. Since then, he reported, there have been further negotiations on a contract to conduct the major part of the study, the over-all aim of which is to improve the scientific and technical output of Defense-supported programs for research and early development. To monitor and guide the study, a joint in-house committee will be established under the chairmanship of Dr. Lawton M. Hartman who is a full-time special assistant to Dr. Sherwin for this task.

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Dr. Hartman then restated and enlarged upon the method to be used in the study: to select a sample of weapons systems programs for study, to identify "key ideas" within those programs, and to insure proper controls (or negative instances) in the study. (See also minutes of past Board and Executive Committee meetings, beginning with May 1962.)

ACTION TAKEN:

The Subcommittee will meet with contractor representatives and Dr. Hartman and report at the March meeting of the Executive Committee.

ITEM 6 - Other Business

a) Military Space Program

Dr. Albert C. Hall, Deputy DDR&E for Space, informed the Executive Committee of recent changes, and reasons therefor, in the military space program. This analysis was pertinent to the final report on "The Military Role in Space" referred to in Item 1 above. The DYNA-SOAR program had to give way under budgetary pressure to the Manned Orbiting Laboratory (MOL) program, supplemented by the ASSET program for unmanned maneuverable re-entry, Dr. Hall reported.

b) DOD-University Relations

Dr. Fubini had initiated action with the Federal Council for Science and Technology to study ways to improve the contractual and other working R&D relations between the Nation's universities and Federal agencies. The Federal Council had appointed a task group to study the matter but no report had been issued to date.



ITEM 7 - Executive Session

At this time the Executive Committee met with Dr. Brown in his office for a discussion of current issues. The Chairman presented Dr. Brown with a copy of the final report of the Subcommittee on the Military Role in Space for forwarding to Secretary McNamara.

The meeting of the Executive Committee was adjourned at 1645.

*Wm W Hammerschmidt*

W. W. Hammerschmidt  
Executive Secretary  
Defense Science Board

10 February 1964

