

DISPOSITION FORM

SECURITY CLASSIFICATION (if any)

~~TOP SECRET~~
~~SECURITY INFORMATION~~
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FILE NO.

SUBJECT

SCAMP 1953

TO C/S

FROM SEC

DATE 9 Oct 53

COMMENT NO. 1

Maj KRAMER/jm/251

Attached Memo with Tabs returned to your office. It was included in the personnel security file of John C. KOKEN when returned to SEC from your office.

FOR SEC:

Claude J. Kramer
CLAUDE J. KRAMER
Major, Infantry
Chief, SEC/PERS

Incl:
a/s

TOP SECRET CONTROL NUMBER 16-53-191
COPY 1 OF 3 COPIES
PAGE 1 OF 1 PAGES

Declassified and approved for release by NSA on 02-10-2014 pursuant to E.O. 13526

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MAY 18 1953

MEMORANDUM FOR GENERAL CANINE

SUBJECT: SCAMP 1953

1. a. The symposium of a Special Committee Advising on Mathematical Problems (SCAMP) was initiated in 1952 at the suggestion of the Armed Forces Security Agency Special Cryptologic Advisory Group (SCAG). It was held at the National Bureau of Standards, Institute for Numerical Analysis (INA), Los Angeles, California, during July and August 1952. It was attended by eight non-NSA mathematicians for the entire time and six others for part of the time. Fifteen representatives of NSA also participated for short intervals. (Tab 1)

b. Stated in most general terms, the fundamental objective of SCAMP is to investigate mathematical techniques potentially applicable to cryptology; the most important immediate objective in 1952 was the study of finite projective planes. One of the principal purposes of SCAMP 1953 is to develop new mathematical techniques applicable to problems of discrete analysis. Some of the major problems in this field relate to high-grade wired-wheel cipher machines. One line of emphasis at SCAMP will be aimed at developing techniques for successful attacks on machines of this type.

c. Mathematicians and high-speed computing machines are required to implement this program. Since the INA has adequate machines and suitable office space for mathematicians, and since Los Angeles has been a focal point for mathematicians desiring to do applied research during the summers, it was selected as the site for SCAMP 1952. In addition, the Institute has experts in the field of discrete analysis who will contribute to the objectives of SCAMP. No comparable location exists in the Department of Defense or in private industry.

d. The fiscal arrangements for the 1952 symposium were made through the National Bureau of Standards, Department of Commerce, by the Office of Naval Research, on behalf of the Director, AFSA. The total cost of the 1952 symposium was \$37,197, including \$8352 for travel. AFSA R&D funds were used for this purpose. (Tab 2)

2. a. Upon the recommendation of certain of the chief participants in the 1952 symposium, the Director, National Security Agency decided to hold a second symposium in 1953.

b. Planning for SCAMP 1953 began in October 1953, with the cooperation of ONR, the INA, and the Mathematics Department of UCLA. On 23 April 1953 the Director, NSA sent the Chief of Naval Research a letter stating that the estimated cost of SCAMP 1953 was \$70,000, which was considered reasonable, and that funds in that amount were being transferred by Military Interdepartmental Purchase Request. The cost of travel and other incidental expense will bring the total estimated cost of SCAMP for 1953 to about \$75,000. (See Tab 2)

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18 May 1953

Subject: SCAMP 1953

c. Early in 1953, question was raised as to whether the recently promulgated Presidential Directive aiming toward a reduction in the number of Government employees affected the SCAMP program. The Director, NSA sent a letter to the Secretary of Commerce, dated 2 March 1953, requesting a favorable interpretation of the Presidential Directive so that the SCAMP program could be carried out as planned. On 23 March 1953, the reply, signed by Mr. Sheaffer, Acting Secretary of Commerce, was in the affirmative. (Tab 3)

d. On 22 April 1953, Dr. Campaigne addressed a letter to the appropriate division of ONR, requesting a transfer of funds to the Bureau of Standards, for the purpose of holding the SCAMP 1953 meeting again at the INA, it having turned out to be unpracticable to hold it elsewhere. (Tab 4)

e. On 4 April 1953, a memorandum from the Under Secretary of Defense, Mr. Kyes, to the Secretaries of the three Services and the Chairman, RDB required that specific approval of the SecDef be obtained for the transfer of R&D funds to other government agencies. (Tab 5) On 29 April 1953, the Chairman, RDB, issued a memorandum setting forth procedure to be followed in submitting requests for such approval. (Tab 6)

f. The Chief of Naval Research sent his request on 7 May 1953 to the Navy Comptroller via the Chief of Naval Operations. (Tab 7) It is understood that the Navy Comptroller has sent the request to the Secretary of the Navy, who is to forward it to the Chairman, RDB. At this writing the request is on its way to the Secretary of the Navy.

3. I recommend that you place this case personally before Mr. Kyes without waiting for the letter referred to in subparagraph 2f above to reach him via the normal channels. If we wait until the letter arrives, it may be too late, even if favorable, to go through with the program. On the other hand, if Mr. Kyes should withhold approval, there would still be time to avail ourselves of Prof. Robertson's offer to let us use facilities at CalTech. Even though the latter will not be nearly as favorable as those at INA, we would at least have done our best to keep faith with the eminent mathematicians whom we solicited to attend SCAMP 1953 and who have already made arrangements therefor.

William F. Friedman
WILLIAM F. FRIEDMAN
Special Assistant

7 Incls:
Tabs 1 thru 7

~~TOP SECRET~~

Non-NSA Participants at SCAMP - 1952

A. Adrian Albert, Professor, University of Chicago
Truman Botts, Assistant Professor, University of Virginia
Stewart S. Cairns, Professor and Head of Department, University of Illinois
Dick Wick Hall, Professor, University of Maryland
Eugene H. Hanson, Professor and Head of Department, North Texas State College
G. A. Hedlund, Professor and Chairman of Department, Yale University
John C. Koken, Research Assistant, University of Illinois
Richard A. Leibler, Sandia Corporation, Albuquerque, N. Mexico
Lowell J. Paige, Assistant Professor, University of California
A. E. Roberts, Jr., Engineering Research Associates
Donald C. Spencer, Professor, Princeton University
C. B. Tompkins, Principal Investigator, Logistics Research Project,
George Washington University
James A. Ward, Professor, University of Kentucky
Charles Wexler, Professor, Arizona State College

TAB 1

Tab 1

NSA Participants at SCAMP - 1952

Military

LTJG Patrick P. Billingsley	NSA-34
LCDR Andrew M. Gleason	
LCDR Marshall M. Hall, Jr.	
CDR D. D. Miller	

Civilian

Charles Bostick	NSA-206
Mrs. Jane Brewer	412
Dr. H. H. Campaigne	34
Reed B. Dawson	34
Dr. Daniel Dribin	206
Dr. J. J. Eachus	35
Dr. L. K. Frazer	206
Dr. B. C. Getchell	206
Dr. Arthur Levenson	206
Dr. Robert H. Shaw	412
William R. Smith	206
Mrs. Laura L. Walters	34

~~RESTRICTED SECURITY INFORMATION~~~~RESTRICTED SECURITY INFORMATION~~

13 May 1953

ANALYSIS OF SCAMP COSTSJul - Aug 1952 Symposium

Institute of Numerical Analysis - UCLA	\$25,000	
University of Illinois	3,845	
R/D Travel	3,914	
C/SEC Travel	812	
PROD Travel	3,626	
Total		\$37,197

Jul - Aug 1953 Symposium

Institute of Numerical Analysis - UCLA	\$70,000	
University of Illinois	1,454	
R/D Travel	3,932 (est.)	
Total		\$75,386

TAB 2

~~RESTRICTED~~

Tab 2

COPY

Serial. 1475

1 April 1953

The Honorable

The Secretary of Commerce

Dear Mr. Secretary:

I wish to thank you for your letter of 23 March 1953, assuring us of your Department's cooperation in the conduct of our summer symposium to be held in connection with the National Bureau of Standards in Los Angeles.

On the basis of your assurance we are proceeding with negotiations with your nominees, Dr. Franz L. Alt and Dr. C. B. Tompkins.

I should like to take this opportunity to thank you for the past and present cooperation of the Department of Commerce and of the National Bureau of Standards in particular.

Sincerely,

/s/ Ralph J. Canine

RALPH J. CANINE
Lieutenant General, US Army
Director

Tab 3

COPY

Tab 3

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THE SECRETARY OF COMMERCE
WASHINGTON 25

23 March 1953

Lieut. General Ralph J. Canine, USA
Director, National Security Agency
Washington 25, D. C.

Dear General Canine:

Your letter of March 3 requested that the Department of Commerce authorize the temporary appointment by the National Bureau of Standards of approximately fifteen mathematicians in order to conduct a symposium this coming summer on certain problems of interest to the work of your agency. This Department will be pleased to cooperate with you on this program and will make the authorizations necessary to carry out the symposium as planned.

This reply was delayed pending clarification of the effect of some impending personnel and administrative changes in the Applied Mathematics Division of the National Bureau of Standards on the contemplated symposium. As a result of discussions between representatives of the National Bureau of Standards, the Office of Naval Research, and the Department's Security Control Officer, it was determined that the symposium could be carried out within the framework of the impending changes. Dr. Franz L. Alt, Acting Chief of the Bureau's Applied Mathematics Division, will have general responsibility for the program in the Bureau's Washington office and Dr. C. B. Tompkins will have immediate responsibility for it at the Los Angeles office.

Sincerely yours,

C. L. SHEAFFER
Acting Secretary of Commerce

1953

Serial: 841
2 MAR '77

The Honorable

The Secretary of Commerce

Dear Mr. Secretary:

The Director of your institute for Numerical Analysis has agreed to conduct for me, during this coming summer, a symposium of mathematicians to study certain problems having an important bearing on my mission. Lacking proper answers to these problems, I will be handicapped in fulfilling that mission. The plan was to employ approximately fifteen scientists on temporary, excepted appointments for two months, and to use a few others obtained by other arrangements. Funds for this purpose have been committed to the Office of Naval Research, for transfer to the Bureau of Standards.

The recent Presidential Directive aiming toward a reduction in the number of Government employees has been interpreted in some quarters as constituting a bar to the holding of the symposium and this has raised questions causing difficulties in planning for the symposium. I understand that commitments had been made some months ago to a number of scientists, for summer appointments to the symposium. If any doubt as to the holding of the symposium this summer were to be expressed to the potential participants, many of the more desirable ones will obviously be inclined to make other plans without delay. Therefore, it is important that the doubt be resolved as soon as possible.

In my opinion the symposium as planned is well within the spirit of the Presidential Directive. It intends to use about fifteen scientists part time to answer basic questions which might otherwise require the full-time services of three or four mathematics specialists on permanent appointment. Moreover, had I contracted directly with a university for the conduct of this symposium no such question would have arisen.

If you find that holding the symposium as outlined above is not excluded by the Presidential Directive, and will advise me accordingly, I will be in a position to proceed with making firm arrangements therefor with the Office of Naval Research and the Director of the Institute for Numerical Analysis. I feel that the success of the summer program at the Institute for Numerical Analysis would be assured if the planning can be completed without delay.

Your assistance and prompt action will be much appreciated.

Sincerely,

RALPH J. CANINE
Major General, U^S Army
Director

11/R Attached

Ltr to the Secretary of Commerce

Serial: 841

CC: AG
C/S
S/ASST

R/D (Dr. Campaign) + Mr. Seablen

R/R: We are requesting an interpretation of the Presidential Directive, aiming toward reduction of Government employees, in regard to hiring participants for SCAMP this summer.

W. F. Friedman/S/ASST/60493/27 Feb 53 - eby

Serial: 31257

22

Mr. E. Smith
 Computer Branch
 Mathematical Science Division
 Office of Naval Research
 Department of the Navy

Dear Mr. Smith:

The summer symposium to be held at the National Bureau of Standards Institute for Numerical Analysis in Los Angeles is intended to gather together prominent mathematicians skilled in combinatorial analysis for an intensive study of problems important to the National Security Agency. This Institute was selected as offering the best facilities and the greatest inducements to scientists to participate. The symposium will terminate in September 1953.

A considerable number of capable mathematicians have agreed to come. The plans and arrangements could not at this late date be altered by having another facility play host. Exploratory inquiry to the University of California in Los Angeles (which could undertake this symposium with the least change) elicited a negative; their administrative machinery could not move in so short a time.

Therefore, the alternatives appear to be the Institute for Numerical Analysis or no symposium. For this reason it is requested that this transfer of funds to the Bureau of Standards be authorized.

Sincerely,

H. H. CAMPAIGNE
 Asst. Chief for Research
 Office of Research and Development

cc: 30B
 3022
 3012

H.H.CAMPAIGNE, R/D, Ext 60320
 Rm 17131 - wlm - 22 April 1953

4 April 1953

MEMORANDUM FOR THE SECRETARY OF THE ARMY
SECRETARY OF THE NAVY
SECRETARY OF THE AIR FORCE
CHAIRMAN, RESEARCH AND DEVELOPMENT BOARD

SUBJECT: Research and Development Performed by Other
Government Agencies.

Effective immediately no funds shall be obligated by any Department or Agency of the Department of Defense for research and development to be performed by any government agency outside the Department of Defense without specific approval of the Secretary or Deputy Secretary of Defense.

This requirement for specific approval is in addition to existing requirements of the regulation approved by the Secretary of Defense under authority of 5 U.S.C. 181a and the Schedules of Programmed Obligations issued thereunder.

Each proposed obligation for which approval is requested will be supported by a brief but adequate descriptive justification and submitted to the Secretary of Defense via (1) the Chairman, Research and Development Board, and (2) the Assistant Secretary of Defense (Comptroller).

/s/ ROGER M. KYES

ACTION COPY: UNDER SECY OF THE ARMY

INFO COPIES: S/ARMY
CHIEF OF STAFF

CC: WWB(2)
JVT
WSE
RDH
ALL

TAB 5

Tab 5

29 Apr 53

RDB 106/40

MEMORANDUM FOR THE SECRETARY OF THE ARMY
SECRETARY OF THE NAVY
SECRETARY OF THE AIR FORCE

SUBJECT: Procedure on Requests for Approval of Research and
Development to be Performed by Other Government Agencies

1. Reference is made to the inclosed copy of memorandum from the Secretary of Defense dated 4 April 1953, subject, "Research and Development Performed by Other Government Agencies", which requires specific approval of the Secretary or Deputy Secretary of Defense before funds are obligated for research and development work with any government agency outside the Department of Defense.

2. To assist the Chairman, Research and Development Board, and the Assistant Secretary of Defense (Comptroller) in considering proposals, preliminary to making recommendations to the Secretary of Defense, it is requested that each proposal submitted for approval contain where appropriate the following information:

- a. Government agency involved, the amount to be obligated and the period of time for which the work will be financed. Indicate whether the amount covers a single job or if the amount is an increment of the funding of a continuing or long-range program. If the latter is the case identify briefly the total amounts involved for the current fiscal year and the probable duration of the arrangement.
- b. Title and project number of project or projects for which funds are to be obligated.
- c. Brief statement of the requirement and the work to be performed either as a single job or as a continuing program. Indicate whether the program is new or is one which has been in progress in previous fiscal years.
- d. Brief statement of (1) the reasons for selecting the subject government agency, (2) why Department of Defense facilities are not being used, and (3) why direct contracting with non-governmental agencies is not being used. Where applicable indicate why

TAB 6

Tab 6

work is performed on a reimbursable basis rather than on a non-reimbursable basis if the desired work is closely allied with the assigned responsibilities of the subject government agency.

- e. The approximate extent to which the work will be performed by the government agency and the approximate extent to which it will be subcontracted.

3. Proposals submitted in accordance with these instructions should be in quadruplicate.

/s/Walter G. Whitman
WALTER G. WHITMAN
Chairman

1 Inclosure

cy Sec. Def. Memo 4 Apr. 53

Copies furnished:

Director, National Security Agency
Chief, Armed Forces Special Weapons Project
Director, Physical Security Equipment Agency
Director, Armed Services Technical Information Agency

COPYONR:434:CVLS:gb
NR 044:044
Ser 00401

7 May 53

From: Chief of Naval Research
To: Navy Comptroller
Via: Chief of Naval Operations (Op 37)

Subj: Permission to transfer funds to the National Bureau of Standards, Department of Commerce for a temporary acceleration of Government Order NA 26-47; request for

- Encl: (1) Director of National Security Agency ltr Ser 1970 dtd 23 April 1953 to ONR
(2) Director of National Security Agency ltr Ser 841 dtd 2 March 1953 to the Secretary of Commerce
(3) Ltr of Acting Secretary of Commerce to Director of National Security Agency dtd 23 March 1953

1. Because of the success of a symposium held in the summer of 1952 at the Institute for Numerical Analysis of the National Bureau of Standards, the Director of the National Security Agency requested by enclosure (1) that arrangements be made by this Office to hold another such symposium in the summer of 1953. This symposium will be concerned with research necessary to maintain a favorable position for the United States with regard to secure communications and related methods, devices, and counter-measures. It will also carry out on the electronic digital computing equipment installed at the Institute for Numerical Analysis, computations reducing theoretical advances to concrete numerical terms from which improved operating techniques may be derived. More detailed information would up-grade this memorandum to Top Secret and can be provided only by the Director of the National Security Agency.

2. The importance of the problems to be discussed is attested by the Director of the National Security Agency in enclosure (2) which contained a request that the work be carried out at the National Bureau of Standards. By reference (3), the Acting Secretary of Commerce signified willingness to conduct the Symposium. Funds in the amount of \$70,000 were subsequently transferred by the Director of the National Security Agency to this Office for support of the proposed Symposium and for other expenses incidental to the maintenance of continuity in the program. The highly classified character of the problems to be discussed makes it advisable that the proposed Symposium be held in a government establishment.

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NR 044 044

Subj: Permission to transfer funds to the National Bureau of Standards,
Department of Commerce for a temporary acceleration of Government
Order NA 26-47; request for

3. As stated in enclosure (2), the majority of the participants in the proposed Symposium will be scientists employed on temporary, excepted appointments for a period of two months. It has been necessary to make early commitments to these gentlemen in order to be sure of obtaining their services before they make other arrangements for the summer.

4. It is requested that permission be granted to this Office to transfer funds in the amount of \$70,000 to the National Bureau of Standards to finance the work requested by the Director of the National Security Agency.

C.V.L.Smith
G. Butler
29 Apr 53

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67

Serial: 1970

23 April 1953

SUBJECT: Additional Fiscal Year 1953 Funds for Government Order Naonr 26-47 with National Bureau of Standards for SCAMP

TO: Chief of Naval Research
Department of the Navy
ATTENTION: Code 434, Computer Branch

References: (a) DIRAFSA Ltr, Serial 0459, 19 Jul 52
(b) NBS Ltr, Serial 11.0, 4 Mar 53
(c) NSA Ltr, Serial 1261, 20 Mar 53

1. Previous work for this Agency has been conducted at the University of California at Los Angeles as a task under Government Order Naonr 26-47 between the National Bureau of Standards and the Office of Naval Research. The initial support for SCAMP was provided 19 July 1952 and the work was outlined in reference (a). It is proposed to continue the work under the above task. In addition, you are hereby authorized to make such contractual arrangements directly with the University of California as is deemed necessary to comply with the standards imposed by the Civil Service Commission, the operating procedures of the National Bureau of Standards and the purposes of SCAMP as outlined in reference (a). It is requested that any contractual arrangements made under authority of this Military Interdepartmental Purchase Request cite the fund authority therefor, and that three copies of each document be addressed to Director, National Security Agency, ATTENTION: NSA 3022.

2. Reference (b) contains a proposal for continuation of SCAMP for another year at an estimated cost of \$70,000.00. This estimate is considered reasonable, and funds in this amount are being transferred by Military Interdepartmental Purchase Request.

3. It is requested that the period of services of this work be adjusted to commence 1 March 1953 and to end 28 February 1954. This adjustment will provide continuity

TAB 7

Tab 7

COPY

Serial: 1970

23 April 1953

of the program as well as fiscal convenience and has been coordinated with Dr. C. V. L. Smith of your organization. The major portion of the effort will be a summer symposium in July and August.

4. The summer symposium will be conducted by Dr. S. S. Cairns. By prior arrangement with the Chief of Naval Research, the expenses of Dr. Cairns and his assistant, Mr. John C. Koken, will be supported by Contract N6ori 07127 with the University of Illinois.

/s/ J. N. Wenger

J. N. WENGER
Rear Admiral, US Navy
Vice Director