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By NARA Date 1930-11

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GENERAL HEADQUARTERS G - 2 FAR EAST COMMAND

File. 000-91

Date From Jan To Dec 49

Line No. 1 To _____

NOTICE

This contains information affecting the National defense of the United States within the meaning of the Espionage Act, 50 U.S.C. 31 And 32, as amended. The transmission, or the revelation of the contents in any manner, to an unauthorized person is prohibited by law; it is intended for American eyes only. It is imperative that these documents be safeguarded at all times, and that the material contained herein be treated with the utmost discretion. Under no circumstances shall possession thereof, or the information therein, be given to any personnel other than those whose duties specifically require knowledge thereof.

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Japan

37240

TB 2595 No. 4767
Cultures of the Organism Fusarium Moniliforme
T/I. G-2, GHQ, FEC Ltr ID IDIT, Control No. CW 669, 9 Nov 49
none none 12 Dec 1949
1 Natural Resources Sec, SCAP Dr. Y. Nisikado

Forwarded herewith six (6) transfer cultures of the Organism Fusarium Moniliforme (Gibberella Fujikuroi) from the laboratory of Dr. Yoshikazu Nisikado as requested in reference letter above.

For the Assistant Chief of Staff, G-2:

J. H. POLK
Lt Col, GSC
Asst Exec, G-2

1 Inclosure:

6 Transfer Cultures Organism Fusarium Moniliforme

G-2 ADMIN File Copy LJF/MHP/lac

DISTRIBUTION:

6 Cultures, ID, D/A

RESTRICTED

DAIT - CW 669

BID - 5303.0500

* * * * *

MEMO FOR RECORD:

1. Intelligence Division letter IDIT, subj, "Cultures of the Organism Fusarium Moniliforme", dtd 9 Nov 49, requests the ID be furnished via Air Mail 6 transfer cultures of the Organism Fusarium Moniliforme (Gibberella Fujikuroi) from the laboratory of Dr Yoshikazu Nisikado, Director Chara Institute for Agricultural Research, Kurashiki, Japan.

2. a. Targets Branch contacted the entomologist of Natural Resources Section (Mr Roberts) who in turn initiated a letter to Dr. Nishikado requesting the above mentioned cultures be delivered to Tokyo ready for Air Mail shipment.

b. Arrangements for reimbursement for the cultures were made with G-2 Exec Gp (Capt Hawley)

3. This OCS 17 fwds to the ID six (6) transfer cultures of Organism Fusarium Moniliforme.

* * * * *

See 35184

G-2 Action

MHP 26-8800

LJF 26-6021

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1. 11. 1952. 11. 11. 1952. 11. 11. 1952. 11. 11. 1952. 11. 11. 1952.

“...*и то же самое* в *одном и том же месте* не может быть *две* *одинаковые* *вещи*”

(2-4) ,It's good to learn English grammar and vocab

ZION R. L.
GAS, for sale
See Bushy Creek

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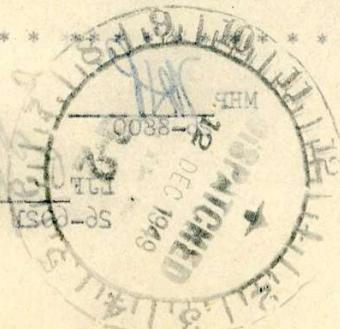
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१६८ - CM - TIA

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p. Alternative for reimbursement for services made with S-Hex (see also section H-1)

3. This OCS file is part of the ID series of the Organization Management System.



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By AR NARA Date 11-30-11

4408.0202

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Japan

TB 2383 No. 4575
Japanese Research on Nitroguanidines and Related Explosives
T/I, G-2, GHQ
1
LTF MID 400.112 May 11 Control No. S-711
Subject: Foreign Scientific Research & Development
April, May 49 29 Sept 1949
1 Technical Intelligence Detachment TID interviews with Japanese scientists

Forwarded herewith six (6) copies of Technical Intelligence Detachment report entitled "Japanese Research on Nitroguanidine and Related Explosives," dated 15 Sept 49.

During April and May 1949 Technical Intelligence Detachment investigators interviewed the following personnel regarding the synthesis and use of nitroguanidine and related compounds for military explosives:

1. Mr. Ryo KAWAI, former engineering officer, Tokyo 2nd Army Arsenal.
2. Mr. Sakai ISHIDA, former engineer in the Research Laboratory of the Tokyo 2nd Arsenal.
3. Ex-Admiral Michizo SENDO, former head of the Research Department, 2nd Arsenal, Hiratsuka.
4. Dr. Kiichiro SUGINO, Professor of Applied Electro-Chemistry, Tokyo Institute of Technology.

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TB 2383 No. 4575

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This report contains a summary of the research conducted before and during the war by the Japanese Army, the Navy, and the Tokyo Institute of Technology on nitroguanidine and related compounds. It also contains a list of the published reports on the subject by Dr. SUGINO. In addition abstracts of two research reports on the preparation of guanidine nitrate and nitroguanidine are included. These reports were written by scientists of the Tokyo Institute of Technology.

NOTE: Recommend that one (1) copy of this report be directed to Lt Col Sam C. Russell, Spec Proj Br, Research & Development Group, Logistics Div, Washington, D. C.

To the Assistant Chief of Staff, G-2:

DISTRIBUTION:

6 MID, D/A
1 Ord O, GHQ
1 G-2 Lib

J. H. POLK
Lt Col, CSC
Asst Exec, G-2

DAIT - 569

BID - 8700., 8800.2000, 8800.3000, 7507., 4408.0202
Control No. S-711

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G-2 ADMIN File Copy

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Authority 795006

By AR NARA Date 11-30-11

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36006

GENERAL HEADQUARTERS
FAR EAST COMMAND
Military Intelligence Section, General Staff

MISD

APO 500
30 December 1949

SUBJECT: Research Activities of Nobuji Sasaki - Request for Additional Data on

TO : Flag Intelligence Officer, Staff Commander Naval Forces, Far East Navy No. 1165

G-2 File Copy

WEC/GMF/vcr

1. References are:

- a. Letter, Department of Navy, Bureau of Ordnance, (Re 6 a)- HMT:vd, subject as above, 28 July 1949.
- b. First Indorsement, basic letter (reference a), Chief of Naval Operations, Serial 8440P32, 11 August 1949.
- c. Letter, Commander Naval Forces, Far East, CNFE/A8-2, Serial 3783, subject as above, 24 August 1949.

2. Reports 1-8 on Formation of Hydrogen Peroxide by OHARA and SASAKI, requested in references, paragraph 1 above, have been forwarded to Director of Intelligence, Department of Army for transmittal to the Department of Navy. This completes action on request made in references, paragraph 1 above, and is the last report on technical intelligence that can be supplied due to recent manpower cuts which practically eliminate Technical Intelligence Detachment of G-2.

For the Assistant Chief of Staff, G-2:

WEC
W. E. CRIST
Colonel, GSC
Executive Officer

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Authority 79500b
By AR NARA Date 11-30-11

**GENERAL HEADQUARTERS
FAR EAST COMMAND**

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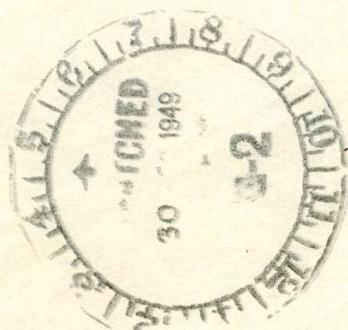
• 5 • Heliotrope

-(a) (b) (E), Pursuant to Order No. 28 July 1948, Letter, Department of Defense, by TAD

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БАРІ АУДАРІ СПОЛУВІДЕЗ, *модесто* Левів

S-0 .This is to be done during the first 10 days of the month.

TEIRO E. W.
OBG. Senofel
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Authority 79500b
By AR NARA Date 11-30-11

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GENERAL HEADQUARTERS
FAR EAST COMMAND
Military Intelligence Section, General Staff

36006

MISD

APO 500
30 December 1949

SUBJECT: Research Activities of Nobuji Sasaki, Request for Additional Data on (040013)

TO : Director of Intelligence
General Staff, U. S. Army
Washington 25, D. C.

1. References are:

- a. Letter, Department of Navy, Bureau of Ordnance, (re 6 a)-
HMT:vd, subject as above, 28 July 1949.
 - b. First Indorsement, basic letter (reference a), Chief of Naval Operations, Serial 8440P32, 11 August 1949.
 - c. Letter, Commander Naval Forces, Far East, CNFE/A8-2, Serial 3783, subject as above, 24 August 1949.
2. Attached herewith final reports 1-8 on Formation of Hydrogen Peroxide by OHARA and SASAKI as requested in references, paragraph 1 above, for forwarding to Department of Navy.
3. Over-all reduction in G-2 personnel to meet recently directed manning level requires an early reduction in strength of the Theater Technical Intelligence Detachment. This reduction will practically limit work of this detachment to ICF reporting only, and will result in a concurrent impairment of our future ability to collect and disseminate technical information on Japan.

For the Assistant Chief of Staff, G-2:

G-2 File Copy

WEC/GMF/vcr

WEC
W. E. CRIST
Colonel, GSC
Executive Officer

1 Incl.
Folder - Rpts 1-8
Formation of Hydrogen Peroxide fr
Water Vapor

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Authority 795006
By AR NARA Date 11-30-11

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GENERAL HEADQUARTERS

Far East Command

Military Intelligence Section, General Staff

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30 Decipherer 1043

MDP

SUBJECT: Measures to prevent the entry of Japanese to Manchukuo, requiring for application
Date on (void)

To : Director of Intelligence
General Staff, U.S. Far East
Wennington 25, D.C.

1. Reference to:

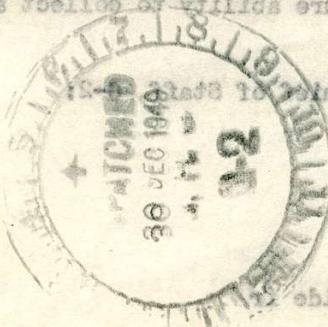
a. Letter, Department of War, Bureau of Ordnance, (10-8)
HMT:by, copy to above, 25 July 1943.

b. Letter, Department of War, copy to
Naval Operations, Bureau NAVFOS, 11 August 1943.

c. Letter, Commandant Naval Forces, Far East, CHINA-5, Serial
2483, copy to above, 25 August 1943.

d. Affidavits forwarded by DIA-5 on information of hydrogen
bombs by O'HARA and SAGAMI as references, herewith 1 above
for transmission to Department of War.

e. Over-all recommendation of D-5 concerning distribution
of information in early intelligence to the highest
priority to intelligence personnel. This will facilitate
work to find reliable sources, and will result in a con-
siderable improvement in the future utility and dissemination
of information no later than.



f. Letter - File J-8
Information of hydrogen bombs
Major Abar

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G-S LTG COBDA

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Authority 79500b
By AR NARA Date 11-30-11

GENERAL HEADQUARTERS
FAR EAST COMMAND
Military Intelligence Section, General Staff

MISD

APG 500
8 November 1949

SUBJECT: Research Activities of Nobuji Sasaki-request for additional data on.

G-2 File Copy

MISD/TNS/FGB/df/GMF/vcr

TO: Commander Naval Forces, Far East
Navy No. 1165
ATTENTION: Flag Intelligence Officer

1. Reference is Navy Request Number 040013.
2. Overall reduction in G-2 personnel to meet recently directed manning levels for FY 1950 require the early dissolution of the Technical Intelligence agency. Consequently, work now being accomplished by that agency on the above request is necessarily terminated.

For the Assistant Chief of Staff, G-2:

W. E. CRIST
Colonel, GSC
Executive Officer

MEMO FOR RECORD:

1. Basic is COMNAVFE ltr, File CNFE/A8-2, dtd 24 Aug 49, which forwards Chief of BuOrd ltr (re6a)-HMT;vd, dtd 28 July 49, w/1st Ind, CHO Ser 8440P32, dtd 11 Aug 49, fwded for action DNI request No. 040013 (suspense date: 10 Oct 49 at DNI) for infor on a Jap process for manufacturing hydrogen peroxide by electrodeless ring discharge. Process was first reported by GHQ, TID, 13 Nov 48. BuOrd states that process appears to have several advantages over conventional means, especially as to purity of product and requests that further details be investigated, particularly to obtain info on yield, critical size and details of apparatus, and reliability of the process to produce H₂O₂ continuously.

2. 1st Ind to COMNAVFE fwds info obtained by TID in answer to the specific Navy requirements; complete answer to be fwded upon completion of translations now in progress and verification of data in the Japanese reports, estimated date of completion, 15 Nov 49.

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By AR NARA Date 11-30-11

GENERAL HEADQUARTERS
FAR EAST COMMAND
Military Intelligence Section General Staff

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testito conseguente alla solennità

\$10000 worth of supplies were sent to him by express.

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in proportion as the ventilation of the room is defective, if you do not
make regular movements; consequence of which is a want of exercise
and of course a want of health.

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By AR NARA Date 11-30-11

MISD

1st Ind

G-2, GENERAL HEADQUARTERS, FAR EAST COMMAND, APO 500, 30 September 1949

TO: Commander, United States Naval Forces, Far East, Navy No. 1165

1. Herewith is report on "Research Activities of Nobuji Sasaki," which partially fulfills Department of Navy request Number 040013.

2. Additional information will be furnished upon completion of translations and verification of data contained in Japanese reports. This information will be forwarded about 15 November 1949.

For the Assistant Chief of Staff, G-2:

26-5368 G-2 File

3 Incls:

1. n/c

Added 2 Incls

2. Report, Research Activities

of Nobuji Sasaki

3. Microfilm of Japanese Reports

W. E. CRIST
Colonel, GSC
Executive Officer, G-2, SCAP

MEMO FOR RECORD:

1. Basic is COMNAVFE ltr, File CNFE/A8-2, dtd 24 Aug 49, which forwards Chief of BuOrd ltr (Re6a) -HMT;vd, dtd 28 Jul 49, w/1st Ind, CNO Ser 8440P32, dtd 11 Aug 49, fwded for action DNI request No. 040013 (suspense date: 10 Oct 49 at DNI) for info on a Jap process for manufacturing hydrogen peroxide by electrodeless ring discharge. Process was first reported by GHQ, TID, 13 Nov 48. BuOrd states that process appears to have several advantages over conventional means, especially as to purity of product and requests that further details be investigated, particularly to obtain info on yield, critical size and details of apparatus, and reliability of the process to produce H₂O₂ continuously.

2. 1st Ind to COMNAVFE fwds info obtained by TID in answer to the specific Navy requirements; complete answer to be fwded upon completion of translations now in progress and verification of data in the Japanese reports, estimated date of completion, 15 Nov 49.

TNS

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By AR NARA Date 11-30-11

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WIBD

G-S, GENERAL HEADQUARTERS, FAR EAST COMMAND, VPO 200, 20 SEPTEMBER 1945

TO: Commanders, Units of Far East Naval Forces, Far East Naval No. 1166

1. Headlines in report on "Measures Against Piracy of Merchant Ships".

2. Measures against pirates who commit acts of piracy in areas controlled by naval forces.

For the Assistant Chief of Staff, G-S:

W. S. GRISWOLD
Colonel, G-S
Executive Officer, G-S, GADB

2. Piracy
1. No
3. Headline
4. Measures Against Piracy
of Merchant Ships
5. Piracy of Japanese
ships

MEMO FOR RECORD:

1. Based on COMMANDER 1st, Far East VPO A-S, pp 48
2d Aug 45, which forwards copy of Board 2d 8400PS-
HMTAG, pp 28 July 45, w/ 1st Inf, G-2 8400PS-
pp 11 Aug 45, issued for section DNI latest info.
40018 (earlier info: 10 Oct 45 at DNI) for info
on a Jap blockade for submarine patrols by blockade
or strafing aircraft and destroyers. Blockade was first
reported by GHQ, TID, 13 Nov 45. Blockade started after
processes abetted by several advances over con-
ventional means, especially as to British or American and
Japanese fleet transfers to transpositions, restrictions
initial to certain units on Aisia, critical size and relative
of supplies, and likelihood of the blockade to bring
hostilities.

3. 1st Inf of COMMANDER 1st into operation by TID
in answer to the specific Navy requirements; complete
success of the Japanese counteraction of transpositions now
in progress and result of the Japanese
blockade, assuming of course of the Japanese

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By AR NARA Date 11-30-11

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GENERAL HEADQUARTERS
FAR EAST COMMAND

Military Intelligence Section, General Staff
Technical Intelligence Detachment

APO 500
28 September 1949

ADDITIONAL DATA ON RESEARCH ACTIVITIES OF NOBUJI SASAKI

1. Yield of H₂O₂ Per KWH of Electricity: The research of Sasaki and Chara did not progress beyond the laboratory stage. Incidental to experiments to determine the mechanism of the reaction and the effect of various conditions, some measurements of yield vs power were made. In all cases the power consumption was measured from primary current. The KWH/Kg. yields given below are calculated from tables appearing in published reports and should serve only as indications of the magnitude of the obtainable yields.

a. Electrodeless Ring Discharge: One two measurements of yield vs power were reported. The best yield was 1152 KWH/Kg. for 52.5% H₂O₂, obtained with the minimum power necessary to produce the red-glow discharge.

b. Discharge between Aluminum Electrodes: Yields varying from 269 KWH/Kg. for 55.1% H₂O₂ to 533 KWH/Kg. for 54.0% H₂O₂ were obtained under widely varying conditions.

2. Critical Size of Apparatus; Detailed Description of Apparatus: No experiments were conducted to determine the critical size of the apparatus. Dr. Sasaki states that neither he nor Chara has sufficient knowledge of the theory of ring discharge to estimate it. He believes that a larger size apparatus using a higher vapor pressure may eventually be used to obtain an increased yield and higher concentration of H₂O₂. Details of the apparatus are given in the published reports mentioned below. When an 85mm diameter discharge tube was used, the discharge took place along the inner surface, leaving a dark space about 40mm in diameter along the tube axis. Sasaki planned to use an 85mm diameter tube surrounding a co-axially placed 40mm inner tube, with the annular space to be subjected to ring discharge.

3. Reliability of Apparatus to Produce H₂O₂ Continuously: The yield and concentration will decrease with time of operation since the surface temperature inside the trap will rise with increase in thickness of the deposit. For the continuously uniform production of high grade H₂O₂, continued production of a low temperature surface and continuous removal of the solid product are essential.

4. Additional Information:

a. The research of Dr. Sasaki and Dr. Chara on the preparation of hydrogen peroxide by electrode and electrodeless ring discharge was carried out during the period 1938 - 1940. All important results were published in a series of eight (8) papers which appeared in Nippon Kagaku Kaishi (J. Chem. Soc. Japan) as follows:

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By AR NARA Date 11-30-11

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FAR EAST COMMAND **GENERAL HEADQUARTERS**

Military Intelligence Section, General Staff

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-advantage of inflation, was would not bring about the same
-inflationary effect as too little oil is balanced with a small
-surplus which will cause the oil price to increase even
-more rapidly than oil itself. In other words, the oil
-market is very elastic, yet it is not balanced with a small
-surplus which would bring about the same effect as
-too little oil is balanced with a small surplus.

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the May 21, 1950, audit of accounts by Hilliard & Co.,
and your confirm and make no claim to any of the amounts like collectiveness
of which is described in detail in your audit report of April 1950.
I am enclosing herewith a copy of the audit report of Hilliard & Co.,
which you will find to be satisfactory evidence of the correctness
of the figures shown in the ledger.



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30 SEP 1949
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60, 1161, 1170 (1939)
61, 17, 257, 265, 359, 569, 657 (1940)

Microfilms of these articles (Incl 2) are forwarded with this letter. Minor errors which appear in some of the tables are being checked. Translations and any additional information will be forwarded when completed, on or about 15 November 1949.

b. During the war, the Japanese Navy asked Dr. Sasaki to industrialize his process. However, he concluded that because of the inferior low pressure technique of Japanese industry, it would not be feasible and consequently made no serious effort toward this end.

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Japan

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T/B 2369 4563
Electronics, Optics, Telecommunications Vol. I of Report 7
T/I, G-2, GHQ MID 400-112-23 May 1949 Control No. S-711
See report Subj: Foreign Scientific Research and Development
June, July, Aug. 1949 22 Sept 1949
1 G-2 GHQ Technical Intelligence Detachment TID investigations of manu-
facturing plants

Forwarded herewith five (5) copies of "Electronics and Telecommunications Manufacturers in Japan," Vol. I of Report 7, dated 1 September 1949, in the series entitled ELECTRONICS, OPTICS, TELECOMMUNICATIONS. Earlier reports in the series have been forwarded previously. GHQ Technical Intelligence Detachment investigations are on a continuing basis to be concluded by January 1950 and reports will be forwarded as investigations are completed.

Purpose of the investigations is to determine the current status of principal manufacturers of electronics and telecommunications goods in Japan with respect to the following: Location and condition of plants and facilities; organization for business and technical operations; level and intensity of research and development; nomenclature, cost, quantity and quality of goods manufactured; identity and history of key personnel; consignment of the manufactured products to markets in Japan or to foreign markets.

Manufacturing plants of the following three companies are covered in this report:
1. Teikoku Tsushin Kogyo K.K., manufacturers of carbon resistors, radio speakers, and audio transformers. Present research is concerned with development of VHF-FM radio for police use.

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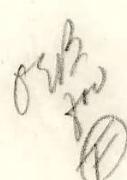
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2. SHIBUYA ROKUZEN SEISAKUSHO, which is engaged in the manufacture of kenotron tubes, X-ray tubes, X-ray apparatus and accessories.
3. NIPPON COLUMBIA K. K., which manufactures radio equipment (radio broadcast receivers, dynamic speakers, magnetic pick-ups, power and output transformers), phonographs and phonograph records.

For the Assistant Chief of Staff, G-2:


J. H. VOLK
Lt Col, GSC
Asst Exec, G-2

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1 CCS
2 G-2 Lib

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By AR NARA Date 11-30-11

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Japan

TB 2176 4425

Status Report-Japanese Research in Nuclear Physics and Related Fields, subj:
Foreign Scientific Research and Development

j January 1949

21 July 1949

1

Economic and Scientific Section
SCAF

* See below

22647

Forwarded herewith one copy ESS Status Report dated 1 May 1949, "Japanese Research in Nuclear Physics and Related Fields and Stockpiles of Radioactive Materials in Japan".

* The information contained in this report was extracted from the files of ESS-Special Project Branch, pertaining to semi-annual reports of research institutions, biographies of Japanese scientists, radioactive stockpile correspondence, requests and permits from Japanese firms for the use of radioactive materials and from reports of surveillance visits made by Special Projects Branch and Technical Intelligence Detachment personnel.

The stated purpose of the subject report is to present the status, as of 1 January 1949, of authorized projects in the fields of nuclear physics research, cosmic ray studies, use of radioactive materials and separation of stable isotopes. The report includes data on the stockpiles of radioactive material in Japan, a list of firms that have been engaged in the treatment of radioactive ores, a list of firms that

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TB 2176 4425

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22647

have been authorized to use radioactive materials in manufacturing operations and an alphabetical list of the Japanese scientists engaged in nuclear and cosmic ray research or in closely related fields.

For the Assistant Chief of Staff, G-2:

File PM

DISTRIBUTION:
1 MID, D/A

1 ESS, Sp Projects Br
1 JCS, D/A (made by ESS)

2 MID D/A

J. H. POLK
Lt Col, GSC
Asst Exec, G-2

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By AR NARA Date 11-30-11

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Monroe has been offered the position
of Vice President.

document received", add "I have noted and the one I have seen
was not written by anyone else". The letter was sent to the
State Department and the Foreign Minister was asked to
inform the American Ambassador that "the
Government of the United States has no objection to the
proposed exchange".

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USSR

TM 1906 No 4094
Scientific Research In USSR, Sakhalin Base of USSR Academy of Sciences
T/I, G-2, GHQ

June 1949

22 June 1949

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G-2 Foreign Liaison Sub-Section

Soviet newspaper

18951

Forwarded herewith one (1) copy G-2 Foreign Liaison translation No. 426 dated 3 June 1949, "Scientific Research In USSR, Sakhalin Base of USSR Academy of Sciences", an extract from the Soviet daily newspaper, "Sovetskij Sakhalin" published in YUZHNO-SAKHALINSK, 27 May 1948.

This article entitled "Scientific Center of Sakhalin," written by B. BUTOVISKY, Assistant Director, Sakhalin Base USSR Academy of Science refers briefly to various experimental projects which are being conducted by young scientists in SAKHALIN to improve agricultural and economic standards. Among the projects mentioned are barley hybridizing, improvement in feed qualities of pastures, forest restoration, fruit and berry experimentation and manufacture of coke briquettes.

For the Assistant Chief of Staff, G-2:

J. H. POLK
Lt. Col., CSC
Asst Exec, G-2

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Japan

TB 2286 4514

Laboratory Surveillance Report (2nd Partial Report) 47, Control No. S-711.
T/I, G-2, GHQ Subj: Foreign Scientific Research & Development
May, June 1949 8 Aug 1949

1 Technical Intelligence Detachment, G-2, First hand investigation by
GHQ TID of Japanese schools, labora-
tories etc.

Forwarded herewith four (4) copies of LABORATORY SURVEILLANCE REPORT (2nd Partial Report), dated 29 July 1949. During May and June 1949 Technical Intelligence Detachment investigators visited thirteen Japanese educational institutions, research institutions and industrial plants for the purpose of determining nature and progress of present research activities, contemplated future projects, compliance with current directives, condition of equipment, and research potentialities. An evaluation of each laboratory was made in regard to efficiency of research staff, research or development potential, unusual or outstanding research personnel and projects, efforts contributing towards economic rehabilitation of Japan and recommendations for further investigation and surveillance. The thirteen targets covered in this report are:

1. Fukushima University, Faculty of Economics, Shimizu-mura
2. Niigata University, Faculty of Engineering, Nagakita
3. Sawafuji Electrical Co., Ltd., Tokyo
4. Shizuka University, Faculty of Literature and Science, Shizuka
5. Commodity Science Laboratory, Tokyo
6. The First Culture Branch of Tohoku University, Sendai

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7. The Second Culture Branch of Tohoku University, Sendai
8. Tohoku Pharmaceutical University, Sendai
9. Tokyo Metropolitan Industrial Promotion Institute, Tokyo
10. Mechanical Laboratory, Agency of Industrial Science and Technology, Ministry of International Trade and Industry, Tokyo
11. 4th Division of Mechanical Laboratory, Agency of Industrial Science and Technology, Ministry of International Trade and Industry, Tokyo
12. Yamagata University, Faculty of Letters and Science, Yamagata
13. Yamagata University, Faculty of Engineering, Yonegawa

LABORATORY SURVEILLANCE REPORT (First Partial Report), dated 4 June 1949, was forwarded by TB 1861 No. 4210 on 10 June 1949.

For the Assistant Chief of Staff, G-2:

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Japan

TB 2297 No. 4517
High Polymer Research
T/I, G-2, GHQ

Ltr MID 400.112, 23 May 1947, Control No. S-711
Subject: Foreign Scientific Research & Development

24 Feb-24 May 1949

12 Aug 1949

1 Technical Intelligence Detachment, See report
G-2, GHQ

Forwarded herewith four (4) copies of Technical Intelligence Detachment report,
HIGH POLYMER RESEARCH, dated 31 July 1949, which covers in considerable detail the work
done by the Japanese in the field of high polymer chemistry.

From 24 Feb to 24 May 1949, Technical Intelligence Detachment investigators inter-
viewed fifty-two persons at five universities, four government and municipal laboratories,
and three laboratories operated by the Society of High Polymer Chemistry. Installations
visited were in the Tokyo, Kyoto, Osaka, Nagoya and Kobe areas.

This report covers silicones, rubber, polyvinyl alcohol, polyvinyl acetate, Amalin,
testing apparatus, basic studies on polymers, and a few new and improved polymers.
Little or no work of significance has been done in such fields as phenolic, urea, ion-
exchange, or cellulose resins. With the exception of Vynylon (a polyvinyl alcohol fiber
of excellent wearing characteristics), Amalin (a polyamide similar to Nylon), and some
basic studies on polymerization, adhesion, and rubber, not much of practical value has
been done. Japanese industry has, in general, concentrated on production while neglect-

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TB 2297 No. 4517
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ing to cooperate with university and government laboratories where the bulk of the
research on high polymers has been done.

Many of the best scientific minds in Japan are concentrating on problems in the
field of high polymer chemistry, but in most cases they have been hampered by lack of
equipment, chemicals and money. Japanese research in the field lags several years
behind that of United States, but rapid progress is being made.

For the Assistant Chief of Staff, G-2:

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Japan

TB 2268 4504

Japanese Experiments in Resistance to Cold

T/I, G-2, GHQ FEC

Ltr MID 400.112, 23 May 47, Control No S-711, subj:
Foreign Scientific Research & Development

See report

11 August 1949

1

Technical Intelligence Detach., G-2

Two Japanese research reports

1. Forwarded herewith eight (8) copies of above-named Technical Intelligence Detach-
ment report, dated 1 Aug 1949. This book contains translations of two Japanese research
reports relating to the effects of extremely cold environments on man and methods of
minimizing such efforts. The report includes numerous charts, tables and photographs.
Conclusions drawn from extensive research conducted by a special detachment of the
Japanese Kwantung Army Medical Department near the Manchuria-Siberian border from
1939 to 1944. Among the topics discussed in this report are the following: nature,
causes, and development of cold injuries; personal differences in susceptibility to
cold; factors comprising cooling power and their measurement; other factors which lead
to casualties; parts of the body most susceptible to injury; symptoms and treatment of
the various degrees of injury; cold endurance power and factors comprising it; compari-
son and improvement of cold endurance power by psychological, physical and material
means (including clothing, individual warming devices, rations and tents); methods of
preventing sporadic and mass outbreaks of injuries; death by freezing, including its
definition, development, symptoms and treatment. Especially interesting are the

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methods of determining physical differences in susceptibility to cold by means of
finger-freezing, blood agglutination, circulation, and other tests and also ways of
increasing resistance. A simple device called a cold sensation meter is described in
the section on cooling power. This meter reportedly measures the combined cooling
effect of wind and temperature and expresses the result in terms of air temperature
under windless conditions. Throughout the report the Japanese word "tosho" has been
translated literally as 'freeze injury' in order to conform with the distinction made
by the author between the mild and severe forms of frostbite.

2. Request following distribution on two copies this document:

- 1 copy to R&D Board, Office Surgeon General, U.S.
1 copy to R & D Board, QMC, U.S.

For the Assistant Chief of Staff, G-2:

J.H. Polk
J.H. POLK
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