

UNCLASSIFIED

AD NUMBER

AD345750

CLASSIFICATION CHANGES

TO: unclassified

FROM: confidential

LIMITATION CHANGES

TO:

Approved for public release, distribution unlimited

FROM:

Controlling Organization. Central Intelligence Agency, Office of Central Reference, 2430 E. Street, NW, Washington, DC 20505.

AUTHORITY

CIA ltr, 7 Sep 2004; CIA ltr, 7 Sep 2004

THIS PAGE IS UNCLASSIFIED

**CONFIDENTIAL**

**AD. 3 4 57 50**

**DEFENSE DOCUMENTATION CENTER**

**FOR**

**SCIENTIFIC AND TECHNICAL INFORMATION**

**CAMERON STATION, ALEXANDRIA, VIRGINIA**



**CONFIDENTIAL**

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

NOTICE:

THIS DOCUMENT CONTAINS INFORMATION  
AFFECTING THE NATIONAL DEFENSE OF  
THE UNITED STATES WITHIN THE MEAN-  
ING OF THE ESPIONAGE LAWS, TITLE 18,  
U.S.C., SECTIONS 793 and 794. THE  
TRANSMISSION OR THE REVELATION OF  
ITS CONTENTS IN ANY MANNER TO AN  
UNAUTHORIZED PERSON IS PROHIBITED  
BY LAW.

CATALOGED BY DDC

AS AD 10

34570

345750

CONFIDENTIAL



SCIENTIFIC INFORMATION REPORT  
CHINESE SCIENCE

(38)

Summary No. 5209

11 December 1963

Prepared by

Foreign Documents Division  
CENTRAL INTELLIGENCE AGENCY  
2430 E St., N. W., Washington 25, D. C.

CONFIDENTIAL

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

**W A R N I N G**

**THIS MATERIAL CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE  
OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS,  
TITLE 18, USC, SECS. 793 AND 794, THE TRANSMISSION OR REVELATION OF  
WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.**

C-O-N-F-I-D-E-N-T-I-A-L

SCIENTIFIC INFORMATION REPORT  
Chinese Science (38)

This is a serialized report consisting of unevaluated information prepared as abstracts, summaries, and translations from recent publications of the Sino-Soviet Bloc Countries. Individual items are unclassified unless otherwise indicated.

Table of Contents

|                                     | <u>Page</u> |
|-------------------------------------|-------------|
| Abstracts from <u>Acta Sinica</u>   | 1           |
| Biological and Medical Sciences     | 1           |
| Earth Sciences                      | 61          |
| Technical Sciences                  | 86          |
| Chemistry, Mathematics, and Physics | 113         |
| Organizations and Conferences       | 132         |
| Manpower and Education              | 139         |
| New Publications and Book Reviews   | 143         |
| Foreign Travels and Contacts        | 147         |
| Biographic Information              | 150         |

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

ABSTRACTS FROM ACTAS SINICA

Biological and Medical Sciences

CHANG Shu-cheng (1728/2885/2398)  
LI Kao-hsiang (7812/5221/5046)

"Identification Of Mannitol In Geotrichum Candidum Link and the Mechanism Of Its Formation

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica), Vol 3, No 3, Sep 63, pp 247-255

Abstract: English abstract accompanies this article

NA Shu-min (6719/3219/2404) was technical assistant to LI.

This paper was received for publication on 14 January 1963. It was read at the Biochemistry and Nutrition Symposium of the 1962 annual meeting of the China Physiology Society.

Authors' Affiliation: Both of Institute of Microbiology, Chinese Academy of Sciences, Peiping.

LI Shih-o (2621/1102/6166)  
YU Shu-yu (0060/2885/3758)  
T'AN Jun-sheng (6223/3387/3932)  
YEN Fu (0917/1788)

"Studies on the Biochemical Mechanism of Hepatocarcinogenesis: Effects of Feeding Azo-dyes on the Enzyme Activity of Rat Liver"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-Li Hsueh-pao (Acta Biochimica et Biophysica Sinica), Vol 3, No 3, Sep 63, pp 256-269

Abstract: English abstract accompanies this article.

The authors express thanks to TS'ENG Shu-chih (2582/6615/0037), KU Hsi-an (6328/6932/1344), Shao Ling-chia (6730/0109/0857), HSU Ch'eng-su (6079/2052/4790) and HSU Ju-chun (6079/1172/0689) for participating in the work.

This paper was received for publication on 19 January 1963.

Authors' Affiliation: All of Department of Biochemistry, Institute of Experimental Medicine, Chinese Academy of Medical Sciences, Peiping; YEN, presently at Biochemistry Teaching and Research Section, Dairen Medical College.

C-O-N-F-I-D-E-N-T-I-A-L

HUNG Meng-min (3163/1322/3046)  
CH'EN Hui-chu (7115/5610/3796)  
SHEN Shan-chiung (3088/0810/3518)

"Conversion of Alanine Dehydrogenase to Glutamic Dehydrogenase by Nitrous Acid Induced Mutation in Bacillus Subtilis 2. The Inductive Formation of Alanine Dehydrogenase in Glutamic Dehydrogenase-positive Mutants"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica), Vol 3, No 3, Sep 63, pp 271-277

Abstract: English abstract accompanies this article.

KUNG Ch'iu-t'ung (1313/4428/2717)

This paper was received for publication on 13 February 1963.

Authors' Affiliation: All of Laboratory of Microbiology, Institute of Plant Physiology, Chinese Academy of Sciences, Shanghai.

SHEN Yun-kang (3088/0336/6921)  
LI Yu-tse (2621/2589/0463)  
SHEN Kung-mou (3088/7255/2804)  
YIN Hung-chang (3009/1347/4545)

"Studies on Photophosphorylation: 7. On the Nature of the Intermediate Accumulated in the Chloroplasts During Illumination:

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica), Vol 3, No 3, Sep 63, pp 278-292

Abstract: English abstract accompanies this article.

CH'EN Yueh-ch'in (6929/2588/3830), WANG Hsiu-fang (3076/4423/5364) and TS'AI Chien-p'ing (5591/0494/5493) participated in the research.

This paper was received for publication on 13 March 1963.

Authors' Affiliation: All of Institute of Plant Physiology, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

LIN Ch'i-shui (2651/0366/6142)  
WU Ch'in-jung (0124/2953/2837)

"Studies on Oxidative Phosphorylation: Abstract No 2. The Release of the Inhibition of 2, 4-Dinitrophenol on Succinate Oxidation in Rat-Liver Mitochondria"

Peiping, Sheng-wu Hua-Hsueh Yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica), Vol 3, No 3, Sep 63, pp 293-299

Abstract: English abstract accompanies this article.

This paper was received for publication on 20 March 1963.

Authors' Affiliation: Both of Institute of Biochemistry, Chinese Academy of Sciences, Shanghai.

CHENG Pao-fen (6774/5508/5358)  
T'AO Hung-ken (7118/7703/2704)  
P'AN Hsiao-p'ing (3382/1420/1627)  
SHIH Yung-te (2457/3057/1795)

"Rupture by X-ray of the Hydrogen Bonds of Deoxyribonucleic Acid in Rat's Thymus and Spleen in Vivo"

Peiping, Sheng-wu Hua-hsueh Yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica), Vol 3, No 3, Sep 63, pp 301-310

Abstract: English abstract accompanies this article.

The authors express thanks to CHAO Chen-ts'un (6392/3630/1317), LI Hung-yuan (2621/3163/3293) and WANG Jen-hsiang (3769/0088/3281) for participating in the work.

This paper was received for publication on 20 March 1963.

Authors' Affiliation: All of Biophysics Teaching and Research Section, Shanghai First Medical College; T'AO and P'AN also of Chemistry Teaching and Research Section, Shanghai First Medical College.

C-O-N-F-I-D-E-N-T-I-A-L

TUNG Lin (5516/7207)  
MENG Wei-lien (1322/1218/1670)

"Effect of Substances Related to Nucleic Acid on the Incorporation of  
Glycine into Iissapol-Treated Spheroplasts of Escherichia Coli"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica  
et Biophysica Sinica), Vol 3, No 3, Sep 63, pp 312-317

Abstract: English abstract accompanies this article.

This paper was received for publication on 26 March 1963.

Authors' Affiliation: Both of Institute of Biochemistry, Chinese Academy  
of Sciences, Shanghai.

LIU Wang-i (0491/2598/1138)  
WANG Te-pao (3769/1795/1405)

"Studies on Soluble Ribonucleic Acids: 1. The Effects of Metallic Ions  
on the Resistance of Soluble Ribonucleic Acids Against Enzymic Degradation"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica  
et Biophysica Sinica), Vol 3, No 3, Sep 63, pp 319-327

Abstract: English abstract accompanies this article.

This paper was received for publication on 26 March 1963.

Authors' Affiliation: Both of Institute of Biochemistry Chinese Academy  
of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

LIU Hsin-yuan (0491/2450/0997)

WANG Te-pao (3769/1795/1405)

"Structural Studies on Ribonucleic Acids: 1. A Modified Two Dimensional Paper Electrophoretic and Paper Chromatographic Method"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb 63, pp 329-339

Abstract: English abstract accompanies this article.

This paper was received for publication on 26 March 1963. It was part of a graduate thesis by graduate students.

Authors' Affiliation: Both of Institute of Biochemistry, Chinese Academy of Sciences, Shanghai.

LIU Hsin-yuan (0491/2450/0997)

WANG Te-pao (3769/1795/1405)

"Structural Studies of Ribonucleic Acids: 2. Comparison of Ribonucleic Acids from Silk Glands and from Yeast by Mapping Method"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb 63, pp 341-350

Abstract: English abstract accompanies this article.

This paper was received for publication on 26 March 1963. It was part of a graduate thesis by graduate students.

Authors' Affiliation: Both of Institute of Biochemistry, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

SUN Yu-k'un (1327/3768/3824)  
TSOU Ch'eng-lu (6760/2110/7627)

"Studies on Papain: 6. The Polymerization of Leucinamide"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb 63, pp 351-356

Abstract: English abstract accompanies this article.

This paper was received for publication on 28 March 1963.

Authors' Affiliation: Both of Institute of Biochemistry, Chinese Academy of Sciences, Shanghai.

TSOU Ch'eng-lu (6760/2110/7627)

"Kinetics of Photosynthetic Reactions Under Flasing Light"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb 63, pp 357-363

Abstract: English abstract accompanies this article.

This paper was received for publication on 11 April 1963.

Author's Affiliation: Institute of Biochemistry, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

LIU Lin (0491/3876)  
TU Yu-ts'ang (2629/7183/5547)  
TSOU Ch'eng-lu (6760/2110/7627)

"Effect of Phospholipid on the Reconstitution of the Succinic and NADH Oxidase Systems with Cytochrome C"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb 63, pp 365-370

Abstract: English abstract accompanies this article.

This paper was received for publication on 23 April 1963.

Authors' Affiliation: All of Institute of Biochemistry, Chinese Academy of Sciences, Shanghai.

TU Chin-chu (2629/6930/3796)  
LI Hsiao (2621/3469)  
WU Ch'in-jung (0124/2953/2837)

"Studies on the Crabtree Effect in Ehrlich Ascites Tumor Cells"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb 63, pp 372-377

Abstract: English abstract accompanies this article.

This paper was received for publication on 26 April 1963.

Authors' Affiliation: All of Institute of Biochemistry, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

HSU Ching-hua (1776/0079/5478)  
YU Hsien-chang (6735/6343/4545)

"Studies of Biochemical Feedback Reactions: 1. The Kinetic Behaviors of Some Simple Systems"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb. 63, pp 376-383

Abstract: English abstract accompanies this article.

This paper was received for publication on 30 April 1963.

Authors' Affiliation: Both of Institute of Biochemistry, Chinese Academy of Sciences, Shanghai; YU, now of Institute of Biophysics, Chinese Academy of Sciences, Peiping.

WANG Sun-lun (3769/1327/0178)  
SHEN Shan-chiung (3088/0810/3518)

"NAD(P) Nucleosidase of Streptomyces Griseus"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb 63, pp 384-394

Abstract: English abstract accompanies this article.

This paper was received for publication on 30 April 1963. It appeared as report No 3226 of the International Committee on Enzymes.

Authors' Affiliation: Both of Laboratory of Microbiology, Institute of Plant Physiology, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

KUNG Tsu-hsun (7895/4371/1053)  
TS'AO T'ien-ch'in (2580/1131/2953)

"The Ultrastructure of Insulin Fibrils"

Peiping, Sheng-wu Hua-hsueh yu Sheng-wu Wu-li Hsueh-pao (Acta Biochimica et Biophysica Sinica) Vol 3, No 3, Feb 63, pp 395-401

Abstract: English abstract accompanies this article.

This paper was received for publication on 3 June 1963.

Authors' Affiliation: Both of Institute of Biochemistry, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

MAO Chiang-sen (3029/3068/2773)  
HUANG Chen'hsiang (7806/4394/4382)

"Observation On the Virus Inhibitory Substance (VIS) From Mouse Brain After Subcutaneous Inoculation of Japanese B Encephalitis Virus"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 247-252

Abstract: Investigations on conditions determining the production of interferon have largely been made on different tissue culture systems. This has the limitation in interpreting the role of interferon in controlling the course of infection of infection. We have successfully demonstrated the production of interferon like substance in the mouse brain after subcutaneous inoculation of a low peripheral pathogenic strain (Nakayama) of Japanese B encephalitis virus to 3-week-old mice. At different intervals after infection, VIS was prepared from the brain by dialyzing against Hank's solution at pH 2. Using WEE as challenging virus and chick embryo monolayer cells as culture system, VIS was found as early as 2 days and persisted up to 10 days after subcutaneous inoculation.

(continued)  
By using a high peripheral pathogenic strain (Peking) as infecting virus, no detectable VIS was demonstrated in the brain at any time after subcutaneous inoculation. Thus, the role of virus factor in determining the production of VIS is demonstrated. The relation of this property to the peripheral pathogenicity requires further studies.

This paper was received for publication on 14 December 1962.

Authors' Affiliation: Both of Department of Virology, Chinese Academy of Medical Sciences, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

TS'ENG I (2582/3015) •  
TENG Yu-mei (6772/5940/5019)  
HUANG Chen-hsiang (7806/4394/4382)

"Studies On Several Factors Affecting the Hemagglutinin Titer of Measles Virus"

Feiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 267-271

Abstract: A study of several factors affecting the hemagglutinin titer of measles virus was made. Without concentrating the infectious tissue culture fluid, the hemagglutinating titre of 1:32-1:64 has been obtained. The following factors were found to be important in obtaining high titre hemagglutinin: (1) type of cell culture used-continuous cell line was better than its corresponding primary cell culture and human renal cell culture better than human amnion cell culture; (2) with the same type of cells, cultures showing overrapid development of C P E gave low titre of hemagglutinin, although the infectivity titre was found to be approximately the same as those giving high titre of hemagglutinin with late development of C P E culture. Change of maintenance medium after 5-6 days of infection in primary cell culture or after 2-3 days in continuous cell lines not only maintained the cell in good condition but also stimulated the rapid development of C P E. Thus leading to the production of high titre

(continued)  
hemagglutinin than those incubated at 37°C; (4) treatment of infected cell culture with ultrasonic wave increased the yield of hemagglutinin to 4 folds. By decreasing the concentration of red blood cell from 1% to 0.5%, the hemagglutinin titre could be raised to 2 folds.

This paper was received for publication on 22 October 1962; it was read at the 1962 Science Conference by the Virology Section of the Peking Microbiology Society.

Authors' Affiliation: All of Department of Virology, Chinese Academy of Medical Sciences, Peking.

C-O-N-F-I-D-E-N-T-I-A-L

WANG Yen-kuei (3769/6056/6311)

"Comparative Studies On the Susceptibility of Ground Squirrels (*Citellus mongolicus ramosus thomas*) to St. Louis and Japanese B Encephalitis Viruses"

Peiping, Wei-sheng-wu Hsueh-pao (*Acta Microbiologica Sinica*), Vol 9, No 3, Aug 63, pp 261-266

Abstract: The ground squirrel was found to be highly susceptible to the intracerebral infection with the Japanese B encephalitis virus (J.B.E.V.) and approximated to that of the mouse. Comparative titration of virus (Nakayama and Peking strains) in both animals gave  $LD_{50}$  titers which were practically identical.

The Nakayama strain was carried through 16 generations and 18 A strain of J.B.E.V. had been passed serially through 5 generations in the ground squirrel by intracerebral passage. No change in the virulence of virus for mice was found to occur as the result of such passages. With the St. Louis encephalitis virus, repeated attempts were also made to infect the ground squirrel by several routes, but the results were uniformly negative.

The possibility of using infected ground squirrel as differentiation for the Japanese B and St. Louis viruses is suggested.

(continued)

The author expresses thanks to the Microbiology Section, Shenyang Medical College, where the experimental work was completed, and to CHING Kuan-hua (2529/0385/5478), president of the school.

This paper, which was received for publication on 11 October 1962, had been introduced at the 1952 Encephalitis Conference of the Ministry of Public Health and at the Shenyang Microbiology Society.

Author's Affiliation: Microbiology Teaching and Research Section, Shansi Medical College, T'ai-yuan.

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Li-te (7115/4539/1795)  
CHOU Ming-hsien (0719/2494/0341)  
HSU Chao-hsian (6079/0340/4382)

"Studies On the Swine Kidney Tissue Culture Vaccine of Japanese B Encephalitis I. Multiplication of Virus and Preparation of Vaccine"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3.  
Aug 63, pp 272-279

Abstract: Because of the presence of nervous tissue in the mouse brain vaccine which might give rise to unfavorable reaction, swine kidney monolayer cell tissue culture for the preparation of virus and preparation of virus and preparation of vaccine was investigated.

The Japanese B encephalitis virus multiplies intensively in the swine kidney cells, reaching a titer of  $10^{-5.50}$  to  $10^{-6.50}$  (ID<sub>50</sub> in mice per 0.03 ml intracerebrally) at the 3rd of 4th day after inoculation, and the 4th day was the time chosen for the harvest of virus and preparation of vaccine. The virus multiplies not only in the 199 synthetic medium, but also in Rappaport's medium, cysteine-isoleucine-ribose medium or cysteine medium alone. The virus titer attained from  $10^{-5.0}$  to  $10^{-6.50}$ .

(continued)

Inoculation of different concentrations of mouse brain virus suspension ( $10^{-1}$ ,  $10^{-3}$ ,  $10^{-5}$ ) into swine kidney tissue culture, the maximal virus titre attained almost the same level, but the peak of the virus titre reached at the 2nd, 4th, and 5th day respectively.

The 50% minimal immunogenic does in the 22 tested vaccines showed that 59.1% of the vaccine had passed the criterion of 0.01 ml (according to the modification of Sabin's mouse brain vaccine method). The immunogenic indices after immunization of the total intraperitoneal does of 0.1 ml of the tissue culture vaccine to mice, vary from 51,920 to 3,613,000 in different lots of vaccine.

Effective vaccine can also be prepared with Rappaport's medium, cysteine-isoleucine-ribose medium or cysteine medium alone.

Using a concentration of 1: 1000 formalin for the inactivation of virus, the potency of most lots of vaccines decreased obviously after storage in the refrigerator for about 4 months.

The authors express thanks to the Institute of Biologicals, Ministry of Public Health for some of the vaccine and for their careful examination; to the Peking Sino-Soviet Friendship Hospital for their help in pathological examinations.

C-O-N-F-I-D-E-N-T-I-A-L

(continued)

This paper was received for publication on 18 December 1962.

Authors' Affiliation: All of Department of Virology, Chinese Academy of Medical Sciences, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

HUNG T'ao (3163/3447)

"Experimental Infection and Histopathological and Histochemical Study of the Human Viral Tumor-Molluscum Contagiosum"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 203-209

Abstract: English abstract accompanies this article.

This paper was received for publication on 14 December 1962.

Author's Affiliation: Pathological Morphology Section, Department of Virology, Chinese Academy of Medical Sciences, Peiping.

~~HUNG~~ T'ao (3163/3447)

F'ANG Ch'i-fang (1690/0366/2455)

CHOU Ching-i (0719/7234/0308)

"Electron Microscopic Study of a Human Viral Tumor-Molluscum Contagiosum"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 210-219

Abstract: English abstract accompanies this article.

The authors express thanks to the Peking T'ien-t'an Hospital and Peking First Hospital for the use of cases of illness at these hospitals which were needed by the authors for experiments.

This paper was received for publication on 14 December 1962.

Authors' Affiliation: All of Pathological Morphology Section, Department of Virology, Chinese Academy of Medical Sciences, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

LIANG Jung-ken (2733/2837/2704)  
CHANG Yu-ch'in (1728/5148/3830)  
YANG Min (2799/2404)

"Studies on the Origin of A<sub>2</sub> Influenza Virus I. Relationship Between Virus Types Recovered From Two Outbreaks of Influenza in Lo-yang in 1957."

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 220-225

Abstract: English abstract accompanies this article.

The authors express thanks to CHU Chi-ming (2612/2478/2494), director of the Institute for his examination of the paper.

This paper was received for publication on 27 September 1962.

Authors' Affiliations: LIANG, CHANG, and YANG, Institute of Biologicals, Ministry of Health, Peiping, MA, Lo-yang Public Health and Quarantine Station, Lo-yang.

LIANG Jung-ken (2733/2837/2704)

"Studies on the Origin of A<sub>2</sub> Influenza Virus I. Antigenic Relationship Between A<sub>1</sub> and A<sub>2</sub> Influenza Virus."

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 226-234

Abstract: English abstract accompanies this article.

The author expresses thanks to CHU Chi-ming (2612/2478/2494), director of the Institute, under whose guidance this paper was done; YANG Min (2799/2404) and KENG Hsiao-lin (5105/1420/7792) for their participation in part of the technical work.

This paper received for publication on 27 September 1962.

Author's Affiliation: Institute of Biologicals, Ministry of Public Health, Peiping

C-O-N-F-I-D-E-N-T-I-A-L

WANG Chih-lun (3769/2784/1510)  
JEN Kuei-fang (0117/6311/2455)  
CHIAO Yung-chen (3542/3057/4176)  
CHU Chi-ming (2612/2478/2494)

"Studies on the Biological Characteristics of the Asian A Type Influenza Virus III. Toxicity and Pyrogenicity to Experimental Animals."

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 235-241

Abstract: English abstract accompanies this article.

This paper was received for publication on 13 November 1962.

Authors' Affiliation: All of Department of Virology, Chinese Academy of Medical Sciences, Peiping; CHU also of Chang-chun Institute of Biologicals.

JEN Kuei-fang (0117/6311/2455)  
WANG Chih-lun (3769/2784/1510)  
CHU Chi-ming (2612/2478/2494)

"Studies on the Viological Characteristics of the Asian Type Influenza Virus IV. Experimental Infection in Animals."

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica) Vol 9, No 3, Aug 63, pp 242-246

Abstract: English abstract accompanies this article.

This paper was received for publication on 13 November 1962.

Authors' Affiliation: All of Department of Virology, Chinese Academy of Medical Sciences, Peiping; CHU also of Chang-chun Institute of Biologicals.

C-O-N-F-I-D-E-N-T-I-A-L

CHANG Han-ching (1728/3352/5427)  
WANG I-min (3769/6654/3046)  
CHENG Yun-k'oi (6774/0061/0418)

"Studies On Some Factors Influencing the Plaque Formation of Japanese B Encephalitis Virus"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 253-259

Abstract: English abstract accompanies this article.

The authors express to SUNG Kan (1345/1626), CH'IU Fu-hsi (8002/4395/4406), JEN Kuei-fang (0117/6311/2455), TS'ENG I (2582/3015), WU An-jan (0702/1344/3544), KUO Hui-yu (6753/3549/3768), and other doctors for their sympathy and encouragement during research work and establishment of the plaque formation; LIU Yuan-yuan (2692/0337/0337) and Dr. WANG Chih-lan (3769/2784/0178) for their bringing up of valuable opinions.

This paper, which was received for publication on 14 December 1962, had been read at the 1962 Science Conference of the Virology Section of the Peking Microbiology Society.

(continued)

Authors' Affiliation: All of Department of Virology, Chinese Academy of Medical Sciences, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

FENG Hui-min (7458/1979/2404)  
LO Jui-hsien (5012/3843/0103)  
PAI Shih-en (4101/2457/1869)

"Tissue Culture of Rickettsia Tsutsugamushi II. Rabbit Testis Monolayer Tissue Culture for Cultivation of Rickettsia Tsutsugamushi"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica) Vol 9, No 3, Aug 63, pp 280-283

Abstract: English Abstract accompanies this article.

This paper was received for publication on 14 June 1962.

Authors' Affiliation: All of Microbiology Teaching and Research Section, Chung-shan Medical College, Canton; PAI also of the Tsutsugamushi Encephalitis Research Section, Canton Municipality.

LIU Chun-hsiang (0491/7165/3276)  
HO Heng (0149/0077)  
SUN Wen-hsien (1327/2429/2009)  
CH'EN Wei-ling (7115/4850/3781)

"Studies on 925 Strains of Hemolytic Streptococcus Isolated from Scarlet Fever Patients with Special Reference to Their Antigenic Properties"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 284-289

Abstract: English abstract accompanies this article.

This paper was received for publication on 15 November 1962.

Authors' Affiliation: All of Institute of Biologicals, Ministry of Public Health, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

T'AO Ti-tu (7118/2769/0960)

"Studies on the Susceptibility of Golden Hamsters to Various Types of Mycobacteria"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 291-298

Abstract: English abstract accompanies this article.

This paper was received for publication on 20 June 1962.

Author's Affiliation: Tachiarai Hospital, Fukuoka-ken, Japan.

CH'EN Jen-p'u (7115/0088/3302)

CHAO Chia-yu (6392/1367/3022)

HSU Yueh-ju (6079/2588/1172)

"The In Vitro Antileptospiroal Activities of Certain Chemotherapeutics"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3, Aug 63, pp 300-305

Abstract: English abstract accompanies this article.

This paper was received for publication on 29 May 1962.

Authors' Affiliation: All of Microbiology Teaching and Research Section, Chungking Medical College.

C-O-N-F-I-D-E-N-T-I-A-L

WANG Ch'ang-an (3769/7022/1344)  
LIN Fei-ch'ing (2651/7378/0615)

"In Vitro Induction of Resistance of Dysentery Bacillus to Chloramphenical"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3,  
Aug 63, pp 306-310

Abstract: English abstract accompanies this article.

This paper was received for publication on 30 September 1962.

Authors' Affiliation: Both of Microbiology Teaching and Research Section,  
Shanghai First Medical College.

CH'EN Tsu-ch'ung (7115/4371/8825)  
AN Cheng-ming (1344/2973/2494)  
HU Hui-chun (5170/1979/0689)  
CH'EN Ch'ing-jung (7115/1987/2837)

"Study of Drug-Induced Resistant Strains of Sal. Typhi and Sh. Dysenteriae"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3,  
Aug 63, pp 312-316

Abstract: English abstract accompanies this article.

This paper was received for publication on 17 December 1962.

Authors' Affiliations: CH'EN, Microbiology Teaching and Research Sec-  
tion, Tientsin Medical College; AN, Hu, and CH'EN, Institute of Epidemi-  
ology, Hopeh Provincial Academy of Medical Science; AN, current mailing  
address is Epidemiology Station, Tung-k'uang Hsien, Hopeh Province.

C-O-N-F-I-D-E-N-T-I-A-L

MA Te-chih (7456/1795/5347)

"Comparison of the Methods for Preparing Antiserum"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3,  
Aug 63, p 320

Abstract: Not given.

This paper was received for publication on 20 June 1962.

Author's Affiliation: Institute of Parasitology, Chinese Academy of  
Medical Sciences, Shanghai; the author is now at Nan-chi Village People's  
Hospital, Lien-shui Hsien, Huai-yin Special District, Kiangsu Province.

LI Ting (2621/0365)

WANG Wen-yu (3769/2429/0151)

YANG Te-ling (2799/1795/3781)

HSU Man-fen (6079/5585/5358)

"Action of Berberinum Hydrochloricum on Immunological Reactions in Animals  
Vaccinated with Live Brucella Vaccine"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3,  
Aug 63, p 319

Abstract: Not given.

This paper was received for publication on 22 January 1960.

Authors' Affiliation: All of Microbiology Teaching and Research Section,  
Harbin Medical University; YANG also of Microbiology Teaching and Research  
Section, Shanghai First Medical College.

C-O-N-F-I-D-E-N-T-I-A-L

WANG Hui-fen (3769/1979/5358)  
CHANG Yin-fang (1728/5593/5364)  
CHANG An-i (1728/1344/1942)

"A Preliminary Observation on the Antibody Production After Injection of  
Brucella Vaccine into Acupuncture Points"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3,  
Aug 63, pp 318-319

Abstract: Not given.

Authors' Affiliation: All of Microbiology Teaching and Research Section,  
Hopoh Medical College, Shih-chia-chuang.

T'UNG Ching-ya (4547/4552/0068)

"Preliminary Studies on the Succinic Dehydrogenase (SDBase) Activity of  
the Liver in Experimental Infection"

Peiping, Wei-sheng-wu Hsueh-pao (Acta Microbiologica Sinica), Vol 9, No 3,  
Aug 63, pp 317-318

Abstract: Not given.

The author expresses thanks to YU Yung-ch'uan (0205/3938/1557) for his  
valuable opinions.

This paper was received for publication on 11 January 1963.

Author's Affiliation: South Kiangsi Junior Medical College, Kan-chou.

C-O-N-F-I-D-E-N-T-I-A-L

CHANG Tseng-chieh (1728/1073/2638)  
HUANG Hsi-t'ing (7806/1585/1656)

"Comparative Investigation of Certain Traits in Time Perception Among Six- and Seven-Year Old Children"

Peiping, Hsiu-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 214-221

Translation of Russian Abstract: The authors studies certain traits in time perception: namely, accuracy in the perception of time intervals; tendency to premature or delayed reactions; and the possibility of using objectively-indicated time measures. In the latter case, a considerable divergence was demonstrably observed between the six- and the seven-year old groups. When the seven-year olds were shown objective time measures, they responded with more accurate reactions. No such increase in accuracy occurred among the six-year olds. On the contrary, a negative result was observed in their case.

Research was conducted at the kindergarten and primary school attached to Southwest Teacher's College and at Pei-p'ei Chao-yang Kindergarten. Statistics were handled by CH'IN Chung-shih (4440/0112/1395) with the assistance of WANG P'an-hsia (3076/4162/7209).

This paper was received for publication on 23 February 1963.

HSU Lien-ts'ang (1776/5114/0221)

"The Effect of Information Redundancy On the Process of Learning Spatial Signal Patterns"

Peiping, Hsiu-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 230-238

Translation of Russian Abstract: Results of experimental investigation demonstrate that the method developed by the author facilitates the study of certain facts and the development of the process of learning signal patterns, with respect to the effect of information redundancy. A definite "critical moment" is observed in the process of pattern learning, after which the time for completing the operation sharply decreases. This phenomenon is explained in that a considerable part of the information contained in the signal pattern becomes redundant. The author concludes that the time for completing the operation diminishes, depending on the degree of information redundancy appearing in the reiteration process of the operation with a definite signal pattern.

Research was carried out under the guidance of D. A. Oshanin.

This paper was received for publication on 30 May 1963.

C-O-N-F-I-D-E-N-T-I-A-L

LI Chia-chih (2621/1367/3112)

"Semantic Noise in Coding Flash Light Signals"

Peiping, Hsin-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 165-174

Abstract: English abstract accompanies this article.

This paper was received for publication on 15 May 1963.

CHING Ch'i-ch'eng (5427/0366/6134)

P'ENG Jui-hsiang (1756/3843/4382)

FANG Yun-ch'iu (2455/5366/4428)

LIN Chung-hsien (2651/0112/6343)

"Size Judgements of an Object in Elevation and in Descent"

Peiping, Hsin-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 175-184

Abstract: English abstract accompanies this article.

This paper was received for publication on 21 March 1963.

C-O-N-F-I-D-E-N-T-I-A-L

SHEN Nai-chang (3088/6621/3864)

"The Size-Weight Illusion of Normal Adults"

Peiping, Hsin-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 186-192

Abstract: English abstract accompanies this article.

This paper was received for publication on 15 May 1963.

LIU Shih-i (0491/0013/3584)  
WANG Nai-i (3769/0035/1837)

"An electroencephalographic Study of Mentally Deficient Patients"

Peiping, Hsin-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 194-202

Abstract: English abstract accompanies this article.

This paper was received for publication on 23 May 1963.

C-O-N-F-I-D-E-N-T-I-A-L

TS'AO Ch'uan-yung (2580/0278/6102)  
SHEN Yeh (3088/8518)

"The Recognition of Chinese Characters Under Tachistoscopic Condition in Primary School Children: 1. Preliminary Experiments on Method"

Peiping, Hsin-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 203-213

Abstract: English abstract accompanies this article.

This paper was received for publication on 8 May 1963.

LIU Chung-hsien (2651/0112/6343)

"The Relationship Between Pursuit Movement and Professional Training"

Peiping, Hsin-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 222-229

Abstract: English abstract accompanies this article.

LIU Wen-ming (0491/2429/2494) participated in the research which was under the guidance of Prof TS'AO Jih-ch'ang (2580/2480/2490).

This paper was received for publication on 21 January 1963.

C-O-N-F-I-D-E-N-T-I-A-L

WANG Po-yang (3769/0130/2254)

"Growth of Grip Strength of Zhejiang Children"

Peiping, Hsin-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 239-246

Abstract: English abstract accompanies this article.

The author expresses thanks to Prof WU Ting-liang (0702/1353/5328) for his guidance and to Prof HU Yu-tao (4151/0060/6670) for his valuable opinions.

This paper was received for publication on 14 September 1962.

TS'AO Ch'uan-yung (2580/0278/6102)

"An Electronic Tachistoscope"

Peiping, Hsin-li Hsueh-pao (Acta Psychologica Sinica), No 3, Aug 63,  
pp 247-249

Abstract: English abstract accompanies this article.

FU P'ei-yu (1788/0160/3768) participated in the experiments begun in 1959-1960.

This paper was received for publication on 8 May 1963.

C-O-N-F-I-D-E-N-T-I-A-L

LI Pao-chien (2621/1405/0256)

"Autoradiographic Investigation of the Synthesis of Nucleic Acids and Proteins in Cells of *Allium Cepa* L. During Meiosis and Mitosis"

Peiping, Chih-wu Hsueh-pao (*Acta Botanica Sinica*), Vol 11, No 2, Jun 63, pp 109-113

Translation of Russian Abstract: The process of the synthesis of nucleic acids and proteins during meiosis and mitosis in *Allium cepa* was studied with the aid of isotopes  $P^{32}$  -  $Na_2HPO_4$  and  $S^{35}$ -methionine by autoradiography with corresponding controls. It was discovered that synthesis of DNA and proteins in the cell is one of the necessary conditions for the occurrence of mitosis and meiosis. DNA is synthesized in the late interphase or in the early prophase of the mother cell of the pollen. The process of protein synthesis takes place at the same time. However, in contrast to the foregoing process, the latter still continues in other stages of meiosis. The syntheses of DNA and of proteins occur simultaneously in the young interphase pollen. An intensive process of the synthesis of nucleic acids and proteins was observed in the tapetum cell.

Prof P. V. Makarov directed the research.

This paper was received for publication on 10 January 1963.

Author's Affiliation: Biology Department, Chung-shan University.

CH'EN Ch'uan-jung (7115/6898/2837)

"Application of  $C^{14}$  for Studying the Distribution and Translocation of Assimilates of Photosynthesis in the Soybean"

Peiping, Chih-wu Hsueh-pao (*Acta Botanica Sinica*), Vol 11, No 2, Jun 63, pp 167-177

Excerpts of Russian Abstract: This paper discusses investigations, conducted experimentally to attain a large soybean harvest, with the purpose of explaining certain developments in the exchange of assimilates during photosynthesis and the physiological nature of the falling off of soybean flowers and beans. The author's three conclusions are also given.

Prof YAO Kuei-Keng (1202/2981/5087), Mukden Agricultural College, directed this research and examined the paper. WANG Kuei-chih (3769/2710/5347) and P'ENG Ta-yu (1756/1129/2589) assisted in the research.

This paper was received for publication on 12 November 1962.

Author's Affiliation: Institute of Forestry and Pedology, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

YU Yung-nien (0151/3057/1628)  
CHIANG Hui-hsiu (3068/1979/0208)  
FENG Chih-ying (7458/5347/5391)  
WANG Chun-ying (3769/0193/5391)

"Studies on the Physiology of Cellulose-Decomposing Fungus of *Trichoderma Koningi* Oudemans"

Peiping, Chih-wu Hsueh-pao (Acta Botanica Sinica), Vol 11, No 2, Jun 63,  
pp 191-198

Excerpts of English Abstract: *Trichoderma koningi* Oudemans (3.2064), a cellulose-decomposing fungus isolated from rotten corn kernel, has been screened from more than 100 strains of fungi belonging to the genera of *Trichoderma*, *Chaetomium*, *Stachybotrys* and *Myrothecium*. Attempts have been made to study the physiology of *T. koningi* with reference to its practical application to the fermentation of industrial and agricultural by-products as well as wild plant materials. The results obtained are given.

(continued)

Prof. FANG Hsin-fang (2455/1800/5364) directed the research. CHANG Shu-cheng (1728/2885/2398) examined this paper. The following persons assisted with the work: WANG Chia-feng (3076/1367/0023), MA Kuei-hsi (7456/2710/6540), LIU Yu-ch'ien (0491/3768/3383), CH'EN Ming-chung (3088/2494/1813), CH'EN Ch'ing-t'ao (7115/1987/3447), and CH'I Tsu-[illegible] (7871/4371/-).

References: Two Chinese, one by FANG Hsin-fang; sixteen English, four by Chinese and four by one Japanese; and five Russian; dated 1925-1962.

Authors' Affiliation: All of the Institute of Microbiology, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

LI Cheng-li (2621/2973/3810)  
SUN An-tz'u (1327/1344/1964)

"Studies On the Growth of Excised Stem Tips of *Stachys Seiboldii*: 1.  
Formation of Tuber in Vitro"

Peiping, Chih-wu Hsueh-pao (*Acta Botanica Sinica*), Vol 11, No 2, Jun 63,  
pp 117-128

Abstract: English abstract accompanies this article.

LI Hsin-min (2621/2450/3046) participated in the technical work.

This paper was received for publication on 21 February 1963.

Authors' Affiliation: Both of Laboratory of Morphology, Institute of  
Botany, Chinese Academy of Sciences.

HU Cheng-hai (5170/2973/3189)

"Studies on the Structure and the Ontogeny of Laticiferous Canals of  
*Decaisnea Fargesii* Franch"

Peiping, Chih-wu Hsueh-pao (*Acta Botanica Sinica*), Vol 11, No 2, Jun 63,  
pp 129-140

Abstract: English abstract accompanies this article.

Profs LI Cheng-li (2621/2973/3810), CHANG Ching-yueh (1728/2529/6885),  
and LI Chung-hsien (2621/0022/2009) read and correct this paper. TIEN  
I-yu (2944/6654/3342) assisted with the drawings.

This paper was received for publication on 28 February 1963.

Author's Affiliation: Department of Biology, Northwest University.

C-O-N-F-I-D-E-N-T-I-A-L

KUO Chung-ch'en (6753/0112/3819)

WANG Fu-hsiung (3769/0126/7160)

"The Effect of IAA and Coconut Milk on the Growth of Immature Sunflower Embryos Cultured in Vitro"

Peiping, Chih-wu Hsueh-pao (Acta Botanica Sinica), Vol 11, No 2, Jun 63, pp 141-154

Abstract: English abstract accompanies this article.

HSU T'ing-yu (1776/1656/3768) assisted in the experimental work and with the slides.

This paper was received for publication on 27 March 1963.

Authors' Affiliation: Both of Institute of Botany, Chinese Academy of Sciences.

CHU Ch'eng (2612/3413)

"The Application of Pas Reaction As a Stain Technique In Plant Histology"

Peiping, Chih-wu Hsueh-pao (Acta Botanica Sinica), Vol 11, No 2, Jun 63, pp 155-166

Abstract: English abstract accompanies this article.

Prof CHANG Ching-yueh (1728/2529/6885) read this paper and offered valuable views. SU Shih-yu (5685/4258/3768) assisted in preparing slides. LI Mao-hsueh (2621/2021/1331) supplied material for slides.

This paper was received for publication on 11 March 1963.

Author's Affiliation: Department of Biology, Peking University.

C-O-N-F-I-D-E-N-T-I-A-L

LIANG Yu-fa (2733/3768/8828)  
TS'AO Tsung-sun (2580/1350/1575)

"The Effect of Boron on the Carbohydrate Metabolism of Cotton Plant"

Peiping, Chih-wu Hsueh-pao (Acta Botanica Sinica), Vol 11, No 2, Jun 63,  
pp 178-182

Abstract: English abstract accompanies this article.

Prof TS'UI Ch'eng (1508/3413) read this paper and offered invaluable  
opinions.

This paper was received for publication on 7 March 1963.

Authors' Affiliation: LIANG, Kansu Agricultural University; TS'AO Peking  
University.

HSIA Chen-ao (1115/6966/3421)

"Effects of Sowing Date on the Development of Winter Wheat"

Peiping, Chih-wu Hsueh-pao (Acta Botanica Sinica), Vol 11, No 2, Jun 63,  
pp 184-189

Abstract: English abstract accompanies this article.

KU Hung-chang (5140/1347/4545), deputy director, Institute of Plant  
Physiology, Chinese Academy of Sciences, and T'ANG Hsi-hua (0781/6932/  
5478) examined this report. The following persons lent assistance through-  
out the project: WAN Hsin-shan (1354/2450/2619); KAO Chin-hua (7559/6930/  
5478), and HSI Shan-ch'eng (1776/0810/6134).

This paper was received for publication on 11 March 1963.

Author's Affiliation: Institute of Plant Physiology, Chinese Academy of  
Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

FAN Kung-chu (2868/1872/3515)

"Studies on the Reproductive Organs of Red Algae: 3. The South African Genus *Melanocolax*"

Peiping, Chih-wu Hsueh-pao (Acta Botanica Sinica), Vol 11, No 2, Jun 63, pp 200-206

Abstract: English abstract accompanies this article.

This paper was received for publication on 13 February 1963. It is Research Report No 200, Institute of Oceanography, Chinese Academy of Sciences.

Author's Affiliation: Institute of Oceanography, Chinese Academy of Sciences; present address: Department of Biology, Chi-nan University Canton.

LIN Ch'ang-shan (2651/2490/0810)

SUN Chin-ju (1327/6855/1172)

CH'EN Jui-lu (7115/3843/7773)

CHANG Tsung-ping (1728/1350/3521)

"1. The Early Spring Migration of the Oriental Armyworm Moths and Its Relation to Winds"

Peiping, K'ung-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3, Jul 63, pp 243-258

Abstract: English abstract accompanies this article.

This paper was received for publication on 7 September 1962.

Authors' Affiliation: LIN and SUN of Department of Biology, Peking University; CH'EN and CHANG of Institute of Zoology, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

KUNG K'un-yuan (7895/0981/0337)  
KAO Chn-ya (7559/6930/0068)  
TI Kuei-jung (5049/2710/2837)

"Some Biological and Inherited Characters of a Mutant White-eyed Strain of Housefly and Its Use in Bioassay"

Peiping, K'un-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3, Jul 63, pp 262-267

Abstract: English abstract accompanies this article.

This paper was received for publication on 6 March 1963.

Authors' Affiliation: All of Institute of Zoology, Chinese Academy of Sciences.

YIN Wen-ying (1438/2429/5391)

"Two New Species of Protura from China"

Peiping, K'un-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3, Jul 63, pp 268-273

This paper was received for publication on 5 December 1962.

Author's Affiliation: East China Institute of Entomology, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

LIU Wei-te (0491/4850/1795)  
LIU Chin-fa (0491/6855/0499)

"Studies on the Susceptibility of *Culex pipiens pallens* Coq. Larvae of Different Ages to DDT, Gamma-BHC and Dieldrin"

Peiping, K'un-ch'ung Hsueh-pao (*Acta Entomologica Sinica*), Vol 12, No 3, Jul 63, pp 276-281

Abstract: English abstract accompanies this article.

This paper was received for publication on 8 January 1963.

Authors' Affiliation: Both of East China Institute of Entomology, Chinese Academy of Sciences.

HO Chi-lung (0149/1949/7893)

"On the Anatomy of the Reproductive System of the Armyworm, *Pseudaletia separata* (Walker) (Lepidoptera: Noctuidae)"

Peiping, K'un-ch'ung Hsueh-pao (*Acta Entomologica Sinica*), Vol 12, No 3, Jul 63, pp 282-290

Abstract: English abstract accompanies this article.

This paper was received for publication on 31 October 1962.

Author's Affiliation: Northeast Agricultural College.

C-O-N-F-I-D-E-N-T-I-A-L

SUN Shao-hsuan (1357/1421/6513)

"Study on the Digestive System of *Neoitanus Angusticornis* Loew."

Peiping, K'un-ch'ung Hsueh-pao (*Acta Entomologica Sinica*), Vol 12, No 3,  
Jul 63, pp 292-299

This paper was received for publication on 2 January 1962.

Author's Affiliation: Shantung Agricultural College.

HSIN Chieh-liu (1823/0094/0362)  
CH'EN Chao-p'eng (3088/0340/7720)

"Morphological Study on *Aleuroglyphus Ovatus* Troupeau (Acarina: Acaridae)"

Peiping, K'un-ch'ung Hsueh-pao (*Acta Entomologica Sinica*), Vol 12, No 3,  
Jul 63, pp 300-309

Abstract: English abstract accompanies this article.

This paper was received for publication on 28 November 1962.

Authors' Affiliation: Both of Department of Biology, Fudan University.

C-O-N-F-I-D-E-N-T-I-A-L

Hsiao Ts'ai-yu (5618/6846/3842)

"Results of the Zoologico-Botanical Expedition to Southwest China, 1955-1957 (Hemiptera, Coreidae)"

Peiping, K'ung-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3, Jul 63, pp 310-331

English Text accompanies this article.

This paper was received for publication on 6 July 1962.

Author's Affiliation: Department of Biology, Nankai University.

LIU Yu-ch'iao (0491/0645/2884)

"A General Survey of the Geographical Distribution of *Dendrolimus Germar* in the Eastern Portion of China"

Peiping, K'un-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3, Jul 63, pp 345-352

Abstract: English abstract accompanies this article.

This paper was received for publication on 11 July 1962.

Author's Affiliation: Institute of Zoology, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

LI Kuei-chen (2621/6311/4176)  
CH'EN Ting-jung (3057/1353/2837)

"A New Flea of the Genus Nosopsyllus Jordan, 1933 (Siphonaptera)"

Peiping, K'un-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3,  
Jul 63, pp 354-357

Abstract: English abstract accompanies this article.

This paper was received for publication on 7 September 1962.

Authors' Affiliation: Both of the Kuei-yang Medical College.

WANG P'ing-yuan (3769/1627/6678)

"Notes on Chinese Pyralid Moths of the Genus Diaphania Hubner"

Peiping, K'un-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3)  
Jul 63, pp 358-367

Abstract: English abstract accompanies this article.

This article was received for publication on 12 November 1962.

Author's Affiliation: Institute of Zoology, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

HO Kuei-ming (0149/2710/6900)

"Report of a New Mosquito, *Culex Cheni* sp. nov."

Peiping, K'un-ch'ung Hsueh-pao (*Acta Entomologica Sinica*), Vol 12, No 3,  
Jul 63, pp 368-370

Abstract: English abstract accompanies this article.

Prof Ch'EN Hsin-t'ao (7115/1800/7118) directed the research

This paper was received for publication on 12 December 1962.

Author's Affiliation: Department of Parasitology, Chung-shan Medical  
College, Canton.

CH'ENG Chen-heng (4453/2182/5899)

"A Preliminary Study on the Detoxication Function of Insect Hemocytes"

Peiping, K'un-ch'ung Hsueh-pao (*Acta Entomologica Sinica*), Vol 12, No 3,  
Jul 63, pp 372-375

Abstract: Not given.

Dr Lei Ai-te (7191/1947/1795) and SHANG Chih-chen (1424/4460/3791), both  
of Tientsin Medical University, prepared the film presented in this paper.

This paper was received for publication on 31 October 1962.

Author's Affiliation: Department of Biology, Nankai University.

C-O-N-F-I-D-E-N-T-I-A-L

CHANG Shih-mei (4545/1102/5019)

"Discussion on the Inset Geographic Region on Kiangsi, Hunan, and Hupeh"

Peiping, K'un-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3,  
Jul 63, pp 376-381

Abstract: Not given.

This paper was received for publication on 9 July 1962.

Author's Affiliation: Kiangsi Agricultural College.

LENG Yen-chia (0397/1693/1367)

"An Investigation of the Morphology of the Pigmented Area of Female  
Phlebotomus squamirostris Newstead, 1923"

Peiping, K'un-ch'ung Hsueh-pao (Acta Entomologica Sinica), Vol 12, No 3,  
Jul 63, pp 383-384

Abstract: Not given.

This paper was received for publication on 16 March 1962.

Author's Affiliation: Department of Biology, Liaoning University.

C-O-N-F-I-D-E-N-T-I-A-L

CHU Shou-p'eng (2612/1108/1756)

"Autoradiographic Study on the Mechanism of Antagonistic Action of Cordiamine on Thiopental"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 2, Feb 63, pp 82-85

Translation of Russian Abstract: This paper examines the result of investigating the mechanism of antagonistic action of cordiamine on thiopental by cryogenic macroautoradiography. The experiments were conducted on white male mice. The following conclusions were derived: (1) The content of  $^{35}\text{S}$ -thiopental or any radioactive substances in various branches of the central nervous system, liver and spleen noticeably decreases when cordiamine is first used. (2) Cordiamine noticeably promotes the accumulation of  $^{35}\text{S}$ -thiopental or any radioactive substances in kidneys and to some extent accelerates the extraction of  $^{35}\text{S}$ -thiopental from the organism.

This paper was received for publication on 28 July 1962.

Author's Affiliation: Radiation Medicine Section, Northwest Branch, Chinese Academy of Sciences, Lanchow.

CH'EN Shih-ts'ung (7115/0013/7500)

KAN P'in-chen (3927/0756/3791)

HU Yu-ch'in (5170/3768/3830)

"Synthesis of Five-nitrofurylidene Mono- and Di-substituted Acetophenones"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 2, Feb 63, pp 97-100

Abstract: Eleven 5-nitrofurylidene mono- and di-substituted acetophenones with possible schistosomicidal activity have been prepared by condensation of furfural with the requisite substituted acetophenones in alcoholic sodium hydroxide, followed by nitration. Attempts to prepare 5-nitrofurylidene-p-hydroxyacetophenone and 5-nitrofurylidene-p-dimethylaminoacetophenone by nitration failed; the crude products could not be recrystallized.

None of these compounds was found effective against experimental schistosomiasis on mice.

This paper was received for publication on 6 September 1962.

Authors' Affiliation: All of Institute of Parasitic Diseases, Chinese Academy of Medical Sciences, Shanghai,

C-O-N-F-I-D-E-N-T-I-A-L

SUN Jui-yuan (1327/3843/0337)

"A Practical Combined Method For Computing the Median Lethal Dose (LD<sub>50</sub>)"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 2,  
Feb 63, pp 65-74

Abstract: English abstract accompanies this article.

This paper was received for publication on 19 January 1962.

Author's Affiliation: Department of Pharmacology, Wu -hu Medical College,  
Wu-hu.

CHANG Hui-yun (1728/1979/5366)

CHANG Chun-t'ien (1728/0971/3944)

"The Application of Human Leukemic Cell-Culture for the Screening of  
Antitumor Agents"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 2,  
Feb 63, pp 75-80

Abstract: English abstract accompanies this article.

This paper was received for publication on 21 July 1962.

Authors' Affiliation: Both of Laboratory of Pharmacology, Institute of  
Materia Medica, Chinese Academy of Medical Sciences, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

LIANG Pin (2733/1755)  
CHOU T'ung-hui (0719/0681/1920)

"Chromatographic Studies of Ergot Alkaloids III. Quantitative Paper Chromatographic Analysis of Ergot"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 2, Feb 63, pp 87-90

Abstract: English abstract accompanies this article.

This paper was received for publication on 19 February 1962.

Authors' Affiliation: Both of Laboratory of Analytical Chemistry, Institute of Materia Medica, Chinese Academy of Medical Sciences, Peiping.

TU Chien-yeh (2629/1696/2814)  
TSANG Feng-ho (5258/7685/0735)  
WU Chao-han (0702/0340/3352)  
WU Chin-chien (0702/6930/0256)

"Berberine Citrate, Its Preparation and Analysis"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 2, Feb 63, pp 91-95

Abstract: English abstract accompanies this article.

This paper was received for publication on 10 July 1962.

Authors' Affiliation: All of School of Pharmacy, Peking Medical College.

C-O-N-F-I-D-E-N-T-I-A-L

LIANG Hsiao-t'ien (2733/2556/1131)  
CHAO Chih-chung (6392/4249/0022)  
HSIEH Ching-hsi (6200/2533/2569)  
CH'EN Yen-yung (7115/1693/6978)  
FU Feng-yung (0265/6265/3057)

"The Constituents of *Salsola Ruthenica* Iljin"

Peiping, Yao-hsueh Hsueh-pao (*Acta Pharmaceutica Sinica*), Vol 10, No 2,  
Feb 63, pp 101-104

Abstract: English abstract accompanies this article.

This paper was received for publication on 11 August 1962.

Authors' Affiliation: All of Institute of Materia Medica, Chinese Academy  
of Medical Sciences, Peiping.

CH'EN Wei-chou (7115/4850/3166)  
TING Kuang-sheng (0002/0342/3932)

"Adrenergic Blocking Effects of 4 Benzodioxanes"

Peiping, Yao-hsueh Hsueh-pao (*Acta Pharmaceutica Sinica*), Vol 10, No 2,  
Feb 63, pp 105-109

Abstract: English abstract accompanies this article.

References: Of the 17 references used, 12 were in English, 3 in Chinese,  
one in German and one in French, dated 1941-1962.

This paper was received for publication on 4 September 1962.

Authors' Affiliation: Both of Institute of Materia Medica, Chinese Academy  
of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

TS'ENG Yu-lin (2582/5148/7792)

"Pharmacognostic Study of Roots of Aconitum Bullatifolium Levl.  
Var. Homotrichum W. T. Wang in Yunnan"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 2,  
Feb 63, pp 111-114

Abstract: English abstract accompanies this article.

This paper was received for publication on 8 February 1962.

Author's Affiliation: Department of Pharmacognosy, Yunnan Institute for  
Drug Control, Kunming.

HAN Jui (7281/6904)

"Some Problems in the Methodology of Cancer Chemotherapy Research"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 2,  
Feb 63, pp 115-128

Abstract: Not given

This paper was received for publication on 22 September 1962.

Author's Affiliation: Laboratory of Pharmacology, Institute of Materia  
Medica, Chinese Academy of Medical Sciences, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

CH' IEN Ming-k'un (6929/0682/1024)  
CHEN Cheng-hsiung (7115/2398/7160)  
TS'ENG Kuang-fang (2582/1684/2455)

"Studies on the Constituents of Ye-ju-hua, the Flower of Chrysanthemum Indicum L. (2) The Structure of Ye-ju-hua Lactone"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 3, Mar 63, pp 129-133

Abstract: English abstract accompanies this article.

This paper was received for publication on 6 September 1962.

Authors' Affiliation: All of Institute of Materia Medica, Chinese Academy of Sciences, Shanghai.

LIU Chi-yun (0491/4764/7189)  
P'AN Pai-ch'uan (3382/4102/1557)

"XVI. Synthesis of  $\alpha$ -(p- [Bis- (2-Chloroethy)- Aminomethyl] - Phenyl) - Butyric Acid and 4-(p- [Bis- (2-Chloroethy) - Amino-methyl] - Phenyl) - Butanol"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 3, Mar 63, pp 135-139

Abstract: English abstract accompanies this article.

This paper was received for publication on 4 October 1962.

Authors' Affiliation: LIU, Institute of Materia Medica, Chinese Academy of Sciences, Shanghai and Institute of Materia Medica, Tientsin Municipal Bureau of Public Health; P'AN, Institute of Materia Medica, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

FU Feng-yung (0265/0023/3057)  
CH'EN Yen-yung (7115/1693/6978)  
SHANG T'ien-min (1424/1131/3046)

"Isolation of Santonin From Artemisia Incana Keller"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 3,  
Mar 63, pp 140-145

Abstract: English abstract accompanies this article.

This paper was received for publication on 15 October 1962.

Authors' Affiliation: All of Institute of Materia Medica, Chinese Academy  
of Medical Sciences, Peiping.

LIU Kuo-sheng (0491/0948/5116)

"Chemical Study of the Volatile Oil of Ma Huang (Ephedra Sinica Stapf)"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 3,  
Mar 63, pp 147-150

Abstract: English abstract accompanies this article.

This paper was received for publication on 15 October 1962.

Author's Affiliation: Institute of Materia Medica, Chinese Academy of  
Medical Sciences, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

HAN Jui (7281/6904)  
HO Shih (0149/6684)  
WANG Chen-kang (3769/2182/4854)  
CHI Hsiu-chuan (4694/4423/1227)  
SAN Li-li (5400/4409/3810)  
HSU Yu-t'ing (1776/3558/1656)  
LEI Hai-p'eng (7191/3189/7720)

"Studies on Antitumor Drugs I. Screening of 207 Compounds on Transplantable Tumors in Mice and Rats"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 3, Mar 63, pp 151-173

Abstract: English abstract accompanies this article.

LI Kuang-ts'ui (2621/1684/4733) and SU Hsiu-ling (5685/4423/3781) participated in the work.

References: Of the 11 sources listed, five were in English, four in Chinese, one in Russian and one in Japanese, dated 1951-1962.

This paper was received for publication on 19 October 1962.

(continued)

Authors' Affiliation: All of Laboration of Pharmacology, Institute of Materia Medica, Chinese Academy of Medical Sciences, Peiping, WANG, presently at Pharmacology Teaching and Research Section, China Medical University.

C-O-N-F-I-D-E-N-T-I-A-L

CH'ANG Hsing-jo (2545/5887/5387)  
HUANG Hsun-yang (7806/3410/7122)  
HSU Yin (1776/0995)

"The Taxonomic Identification of the Medicinal Plant Shui-hsien"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 3,  
Mar 63, pp 174-182

Abstract: English abstract accompanies this article.

This paper was received for publication on 17 July 1962.

Authors' Affiliation: All of Institute of Materia Medica, Chinese Academy  
of Sciences, Shanghai.

WANG Ch'i-cho (3769/0366/3504)  
KENG Kuo-wu (5105/0948/2976)  
CHANG Tsai-chun (1728/0961/6874)  
TUNG Tsu-hsing (5516/4371/5281)  
SHEN Chung-nan (3088/0112/2684)

"Studies on Antimalarials 1. An Improved Preparation of seven-Chloro-  
four-hydroxy-three-quinolinecarboxylic Acid"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 3,  
Mar 63, pp 183-187

Abstract: English abstract accompanies this article.

This paper was received for publication on 29 November 1962.

Authors' Affiliation: All of Shanghai Institute of Pharmaceutical In-  
dustrial Research, Ministry of Chemical Industries; SHEN, also of Shanghai  
Public and Private Joint Operated Chinese and Western Drug Manufacturing  
Plant.

C-O-N-F-I-D-E-N-T-I-A-L

CHANG Ch'ang-shao (1728/2490/4801)

"Inhibitors for Catecholamine Synthesis"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 3,  
Mar 63, pp 188-192

Abstract: Not given..!

References: Of the 24 references used, 20 were in English, three in German and one in Chinese, dated 1938-1962. The one Chinese reference, written by CHANG, is dated 1962.

This paper was received for publication on 2 July 1962.

Author's Affiliation: Pharmacology Teaching and Research Section, Shanghai First Medical College.

WU Yen-pao (0702/3601/1405)  
CHANG T'an-mu (1728/6009/3092)  
WANG Yu-ch'ien (3769/3842/5409)  
CH'EN Chin-wen (7115/6930/2429)  
CH'EN Tsu-chi (7115/4371/1015)

"Studies of the Action of Corydalis Ambigua on the Gastro-Intestinal Movement"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 4,  
Apr 63, pp 193-198

Abstract: English abstract accompanies this article.

LIN Hsien-ch'i (2651/6343/3823) and PAO Meng-chou (7637/1125/0719) participated in the work as did the Radiology Section of Chien-hsi Hospital. SUN Hsin-kung (1327/0207/0501) of the Honan Drug Inspection Station tested the drugs.

This paper was received for publication on 13 July 1962.

Authors' Affiliation: All of Pharmacology Teaching and Research Section, Loyang Medical College.

C-O-N-F-I-D-E-N-T-I-A-L

LEI Hai-p'eng (7191/3189/7720)  
HAN Jui (7281/6904)  
HO Shih (0149/6684)  
WANG Chen-kang (3769/2182/4854)  
CHI Hsiu-chuan (4694/4423/1227)  
FAN Li-li (5400/4409/3810)  
HSU Yut'ing (1776/3558/1656)

"Studies on Antitumor Drugs: 2. The Effect of 311 Herb Drugs and Some Chemical Constituents and 47 Composit Recipes on Transplantable Tumors in Animals"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 4, Apr 63, pp 199-213

Abstract: English abstract accompanies this article.

This paper was corrected by SUNG Chen-yu (1335/2182/3768) and FU Feng-yung (0265/6265/3057). LI Kuang-ts'ui (2621/1684/4733), SU Hsiu-ling (5685/4423/3781) and T' IEN Hui-chin (3944/2585/6855) participated in the experiments.

This paper was received for publication on 19 October 1962.

(continued)

Authors' Affiliation: All of Laboratory of Pharmacology, Institute of Materia Medica, Chinese Academy of Medical Sciences, Peiping.

C-O-N-F-I-D-E-N-T-I-A-L

SHAO I-te (6730/0110/1795)  
II Ch'ang-ch'un (2621/1603/2504)

"Pharmacological Studies on Glycoside B of Nerium Indicum"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 4,  
Apr 63, pp 215-218

Abstract: English abstract accompanies this article.

The work was done under the direction of Prof CHANG Ch'ang-shao (1728/  
2490/4801).

This paper was received for publication on 2 November 1962.

Authors' Affiliation: Both of Pharmacology Teaching and Research Section,  
Shanghai First Medical College.

TSUNG Ju-shih (1350/3067/1395)  
CHI Ju-yun (1518/2067/6663)

"The Synthesis of Some Piperidino-acyl Anilides with Marked Local Anesthetic  
Activity"

Peiping, Yao-hsueh Hsueh-pao, (Acta Pharmaceutica Sinica), Vol 10, No 4,  
Apr 63, pp 225-233

Abstract: English abstract accompanies this article.

T'ANG Hsi-shan (0781/1585/3503) participated in the pharmacological experi-  
ments; YIN Tun-hsiang (3009/2415/4382) participated in the technical work.

This paper was received for publication on 7 December 1962.

Authors' Affiliation: Both of Institute of Materia Medica, Chinese Academy  
of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Shu-feng (7115/3219/7685)  
HSIEH Ching-hsi (6200/2533/2569)  
LIANG Hsiac-t'ien (2733/2556/1131)

"The Structure of Securinine"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 4,  
Apr 63, pp 225-234

Abstract: English abstract accompanies this article.

CHU Jung (2612/554) participated in the work.

This paper was received for publication on 25 December 1962.

Authors' Affiliation: All of Institute of Materia Medica, Chinese Academy  
of Medical Sciences, Peiping.

WANG Chu-lu (3769/5511/4389)

"Studies on N, N-dimethylcarbamates as Insecticides: 1. The Synthesis  
of Phenyl and Naphthyl N, N-dimethylcarbamates and Their Chloro-analogues"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 4,  
Apr 63, pp 237-240

Abstract: English abstract accompanies this article.

KAO P'ei-hua (7559/0160/5478) participated in the work; original analyses  
were made by LIU Li-lin (0491/7787/3829).

Author's Affiliation: Pharmaceutical Chemistry Teaching and Research  
Section, Department of Pharmacy, Second Military Medical University.

C-O-N-F-I-D-E-N-T-I-A-L

SHEN Tao-hsiu (3088/6670/0208)  
CHANG Hsiao-wen (1728/2400/2429)

"The Anticonvulsant and Analgesic Activities of Gastrodia Elata Bl."

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 4,  
Apr 63, pp 242-245

Abstract: English abstract accompanies this article.

Prof CHANG Ch'ang-shao (1728/2490/4801) reviewed the work; Profs CHANG  
and TS'EN (1478) identified Gastrodia Elata Bl.; CH'EN Kuo-chieh (7115/  
0948/2638) participated in the technical work; CHIN Cheng-chun (6855/  
2973/0971) designed an intermittent stimulus apparatus to relieve pain.

This paper was received for publication on 2 July 1962.

Authors' Affiliation: Both of Pharmacology Teaching and Research Section,  
Shanghai Second Medical College; SHEN, presently located at Pharmacology  
Teaching and Research Section, Shanghai Traditional College of Chinese  
Medicine.

HSIA Hsin-ch'iang (1115/5450/1730)  
WANG Ch'ing-fu (3769/3237/4395)

"Recent Progresses in the Synthetic Chemistry of Vitamin A"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 4,  
Apr 63, pp 246-255

Abstract: Not given.

Prof SHEN Chia-hsiang (3088/1367/4382) reviewed the paper.

This paper was received for publication on 13 October 1962.

Authors' Affiliation: Both of Hunan Durg Manufacturing Plant, Ch'ang-sha.

C-O-N-F-I-D-E-N-T-I-A-L

HAN Jui (7281/6904)

"A New Approach to Cancer Chemotherapy"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 4,  
Apr 63, pp 256-260

Abstract: Not given.

Author's Affiliation: Laboratory of Pharmacology, Institute Materia  
Medica, Chinese Academy of Medical Sciences, Peiping.

CHU Ch'iao-chen (2612/1564/6297)  
WANG Hsiao-lu (3769/1321/6424)  
TING Kuang-sheng (0002/0342/3932)

"Effect of Guanethidine on Adrenal Cortical Activities in Rats"

Peiping, Yao-shueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 5,  
May 63, pp 261-264

Abstract: English abstract accompanies this article.

CH'EN Li-hsin (7115/4539/0207), TS'AO Ts'ui-yu (2580/5050/3768) and CHU  
Ming-k'ang (2612/2494/1660) participated in the technical work.

This paper was received for publication on 30 September 1962.

Authors' Affiliation: All of Institute of Materia Medica, Chinese Academy  
of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

CHOU Tsu-te (0719/4371/1795)  
CHOU Chin-hsu (0719/6855/3563)  
MEI Fang (2734/2397)  
LIANG Hui-chen (2733/1920/3791)  
LU Shun-hsing (7120/7311/5281)  
HSU Pin (5171/1755)

"Studies on Antitumor Drugs: 14. Examination on Structure-activity Relationships of Antimonial Chelates"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No. 5, May 63, pp 266-277

Abstract: English abstract accompanies this article.

Original analyses were made by members of the Analysis Section of the Institute of Materia Medica. CHU Ying-ch'i (2612/2019/7784), TENG Jung-hsien (6772/5554/0103) and WANG Jun-ying (3076/3387/5391) contributed some of the chemical compounds; SHIH Mao-jen (2457/5403/0086), LU Fei-li (0712/5203/3810) and JEN Fan-yu (0117/5400/0645) participated in the technical work.

This paper was received for publication on 4 October 1962.

(continued)

Authors' Affiliation: All of Institute of Materia Medica, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

HO Shih-(0149/6684)

"Studies on Antitumor Drugs: 5. A Study on Certain Combinations of Antitumor Agents"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 5, May 63, pp 279-285

Abstract: English abstract accompanies this article.

LIU Keng-t'ao (0491/5087/7118) and FAN Li-li (5400/4409/3810) supplied the data for some of the experiments. Prof CHIN Yin-ch'ang (6855/5593/2490) and Dr. HAN Jui (7281/6904) reviewed and corrected this paper. T'IEH Hui-chin (3944/2585/6855) participated in some of the experiments.

This paper was received for publication on 19 October 1962.

Author's Affiliation: Laboratory of Pharmacology, Institute of Materia Medica, Chinese Academy of Medical Sciences, Peiping.

TS'ENG Kuang-fang (2582/1684/2455)  
CHAO Chih-yuan (6392/1807/6678)

"Studies on the Flavonoids Present in Chinese Drugs: 9. A New Flavone Glycoside Isolated from Wikstroemia Viridiflora"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 5, May 63, pp 286-291

Abstract: English abstract accompanies this article.

Prof LIU Pao-shan (0491/1405/0810) identified the plant, Wikstroemia Viridiflora Meisen; LI Yun-shan (2621/5686/1472), FU Shao-hsuan (0265/4801/5503) and HAN Jui (7281/6904) of the Pharmacology Teaching and Research Section, Hopeh Medical College, conducted pharmacological experiments with Wikstroemin.

This paper was received for publication on 13 October 1962

Authors' Affiliation: Both of Institute of Materia Medica, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

LI Shun-hsing (7120/7311/5281)  
CHI Ju-yun (1518/3067/6663)

"Chemotherapeutic Studies on Schistosomiasis: 12. Synthetic Studies on Some Phosphorus Compounds"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 5, May 63, pp 293-297

Abstract: English abstract accompanies this article.

This paper was received for publication on 8 April 1962.

Authors' Affiliation: Both of Institute of Materia Medica, Chinese Academy of Sciences, Shanghai.

JEN Yun-feng (0117/7189/1496)  
WANG Jun-ying (3076/3387/3841)

"Tumor Chemotherapy: 17. The Synthesis of Derivatives of 6-Mercaptopurine and 5-Mercaptouracil"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 5, May 63, pp 298-302

Abstract: English abstract accompanies this article.

The work was done under the direction of Prof KAO I-sheng (7559/1837/3932); Prof HSU Pin (5171/1755), CHOU Chin-hsu (0719/6855/3563) and LIANG Hui-chen (2733/1920/3791) of the Laboratory Pharmacology, Institute of Materia Medica, carried out anti-tumor experiments on animals. Original analyses were made by JEN Mei-li (0117/5019/5461), WANG Mei-hsing (3769/3780/7451) and HU Chan-ti (5170/0594/6611) of the Analysis Section; P'AN Ch'un-ying (3382/4783/5391) and TAI Chin-yuan (2071/6855/1254) participated in the technical work.

This paper was received for publication on 21 December 1962.

Authors' Affiliation: Both of Institute of Materia Medica, Chinese Academy of Sciences, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

WENG Yuan-k'ai (5040/0337/0418)  
IAN Ch'i-t'ien (5663/3825/3944)

"Amperometric Titration of Pierazine Salts and Their Preparations"

Peiping, Yao-hsueh Hsueh-pao (Acta Pharmaceutica Sinica), Vol 10, No 5,  
May 63, pp 303-306

Abstract: English abstract accompanies this article.

Authors' Affiliation: Both of Analytical Chemistry Teaching and Research  
Section, Nanking Pharmaceutical College.

C-O-N-F-I-D-E-N-T-I-A-L

Earth Sciences

YEH Tu-cheng (0673/4648/2973)  
CH'EN Hsiung-shan (7115/7160/1472)

"On the Nonlinear Effect in the Formation of Blocking Highs"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 2,  
May 63, pp 145-151

Text of English Abstract: This paper investigates the process by which an unstable, growing disturbance stops developing. The chief mechanism which checks the development of the disturbance is the feeding-back effect of the unstable disturbances on the basic current. It is shown that the time needed for an unstable disturbance to grow to its maximum intensity is roughly proportional to its initial amplitude. For an amplitude of 100 meters the time required is about eight days; for an amplitude of 200 meters, about five days.

In the vorticity and thermodynamic equation, the authors retained the non-linear terms, which terms are generally dropped by other investigators. This permitted the study of the mutual interactions of the disturbances. It is shown theoretically that this mutual interaction is important in the formation of omega-shaped blocking highs.

(continued)

This paper was received for publication on 26 July 1962.

Authors' Affiliation: Institute of Geophysics [and Meteorology], Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Ch'iu-shih (7115/4428/1102)

"On the Formation and the Destruction of Thermal-Wind in a Simple Baroclinic Atmosphere (II)"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 2, May 63, pp 153-162

Abstract: English Abstract of this paper was published in Volume 33, No 1, February 1963 issue of this journal after Part 1 of this research report.

The author thanks YEH Tu-cheng (0673/4648/2973) for invaluable suggestions.

Author's Affiliation: Department of Geophysics, Peking University.

CH'IN Tseng-hao (4440/2582/3493)

"A Two-Parameter Baroclinic Model"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 2, May 63, pp 131-144

Abstract: English abstract accompanies this article.

The author thanks CHOU Fa-hsiu (0719/4099/3811) for helping with the calculations and to CH'U Ping-yu (2575/4463/5940) for drawing the graphs.

This paper was received for publication on 16 May 1962.

Author's Affiliation: Shantung College of Oceanography.

C-O-N-F-I-D-E-N-T-I-A-L

WANG Tso-shu (3769/0155/6615)

"A Case Study of Low Level Shear Line Over the Yangtze-Huai Valley in China"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 2,  
May 63, 189-204

Abstract: English abstract accompanies this article.

References: Fourteen Chinese works published between 1949 and 1960 are cited, including the not-often-mentioned serial, Chung-yang Ch'i-hsiang Lun-wen-chi (Collected Meteorological Papers of the Central Weather Bureau), No 1, 1956 and No 3, 1957.

Author's Affiliation: Institute of Geophysics [and Meteorology], Chinese Academy of Sciences.

HSIEH I-ping (6200/5030/3521)  
CH'EN Shou-chun (7115/0649/6874)  
CHANG I-liang (1728/0001/532\*)  
HUANG Yin-liang (7806/1377/0081)

"Statistical Study and Analysis of Basic Currents Over Southeast Asia and the Initiation of Typhoons"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 2,  
May 63, pp 206-217

Abstract: English abstract accompanies this article.

The authors thank the following persons for help rendered: T'AO Shih-yen (7118/6108/6056), HSIAO Wen-chun (5135/2429/0193), YEH Hui-jung (0673/1979/5554), and CH'EN Chen-hua (7115/2182/5478).

This paper was received for publication on 12 October 1962.

Authors' Affiliation: All of Department of Geophysics, Peking University.

C-O-N-F-I-D-E-N-T-I-A-L

YAO Chen-sheng (8010/2650/3932)

"Application of the Theory of Probability to Climatological Statistics"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 2, May 63, pp 245-255

Abstract: English abstract accompanies this article.

The author attributes credit to the following persons for statistical work presented in this paper: CHU P'ei-ju (2611/1014/1172), MA I'chen (7456/1355/3791), SHIH Yung-nien (2457/3057/1628), and CHANG Tai-hua (1728/7818/5478).

This paper was received for publication on 9 October 1962.

Author's Affiliation: Department of Meteorology, Nanking University.

CH'EN Jui-jung (7115/3843/2837)

"Studies on the Evolution of Individual Cumuli"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 2, May 63, pp 257-270

Abstract: English abstract accompanies this article.

This paper was received for publication on 26 July 1962.

Author's Affiliation: Institute of Geophysics [and Meteorology], Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

TSENG Ch'ing-ts'un (2582/1987/1317)

"The Adaptive and Evolutionary Processes in the Atmosphere: 2. Nonlinear Problems"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3, Aug 63, pp 281-288

Excerpts of Russian Abstract: This paper examines the adaptive and the evolutionary processes in atmospheric motions in nine sections: (1) Introduction; (2) Isolation of the two processes; (3) Physical causes of the emergence of these two processes; (4) Reduction of primary equations to integral-differential equations; (5) The adaptive process of the motion to the geostrophic in a linear case; (6) The adaptive process and the evolutionary process in a general non-linear case. The quasi-geostrophicity of the evolutionary process; (7) The "generalized adaptive process" and the "generalized quasi-geostrophic correlation"; (8) The mechanism for the emergence of ageostrophic motions and "meteorological noises"; (9) The effect of the ageostrophic segment on the evolution of large-scale quasi-solenoidal motions. Sections one through five appeared in the first part of this paper, subtitled "1. Physical Analysis and Linear Theory," and published in the preceding issue of this journal.

(continued)

This paper is part of the candidate dissertation which the author completed at the Institute of Applied Geophysics, Academy of Sciences USSR, in 1959-1960, under the direction of I. A. Kibel', corresponding member of that Academy. Certain deletions and additions were made prior to publication.

The author thanks YEH Tu-cheng (5509/4648/2973) for reading the manuscript and for giving many invaluable suggestions.

Author's Affiliation: Institute of Geophysics and Meteorology, Chinese Academy of Sciences.

The Russian abstract, excerpts of which are given above, appeared in Ch'i-hsiang Hsueh-pao, Volume 33, No 2, May 1963, page 174, following the author's previous paper of the same series, which paper is titled, "The Adaptive and Evolutionary Processes in the Atmosphere (1), Physical and Linear Theory."

C-O-N-F-I-D-E-N-T-I-A-L

CHOU Ming-yu (0719/2494/3558)

"Preliminary Studies on Convective Heat Flux in the Lower Atmosphere"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3, Aug 63, pp 291-296

Translation of Russian Abstract: A model of convective heat transfer is set up, based on an analysis of the interaction between convective heat transfer and atmospheric stratification. A numerical computation was made. Results of the computation demonstrate that this interaction plays a major role in heat transfer. The heat flux is overwhelmingly greater under unstable than under stable stratification. As a result of heat transfer, the atmospheric stratification clearly changes in the initial state, and approximates neutral stratification in the final state.

This article was received for publication on 28 September 1962.

Author's Affiliation: Institute of Geophysics [and Meteorology], Chinese Academy of Sciences.

TU Hsing-yuan (2629/5887/6678)

"Effect of Topography on Wind and Atmospheric Pressure Fields in a Turbulent Atmosphere"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3, Aug 63, pp 297-304

Translation of Russian Abstract: This paper examines the various effects of orography on the changes in wind field and pressure with respect to atmospheric turbulence. Under geostrophicity, it was obtained that the pressure rises when the barotropic gradient coincides with the gradient of the orographic contour pattern. If both gradients coincide but have opposite directions, then the pressure falls. A barotropic model was studied with respect to orography and turbulence. It was demonstrated that the discrepancy in monthly mean pressure values, averaged along the latitudes in both hemispheres over a number of years, could be explained by the divergence in orographic distribution.

This paper was received for publication on 21 December 1962.

Author's Affiliation: Institute of Meteorological Research, Central Weather Bureau.

C-O-N-F-I-D-E-N-T-I-A-L

LO Ssu-wei (5012/0934/4850)

"Analysis of the Origin of Wind-Shifting Lines in Winter on the Eastern Part of the Plateau in Our Country"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3, Aug 63, pp 305-319

Translation of Russian Abstract: Wind shift lines often appear in winter at the 700-mb surface in the Yang-tzu Huai-ho region. They are characterized by large wind shear and small pressure gradient. The article notes that wind shear lines originate from friction within the orographic boundary layer of the atmosphere. An anti-cyclonic vortex developed near Lan-chou, proportionate to the increase in the aforementioned boundary layer. Later, the vortex left its orographic center and drifted with the current. The pattern and the development process of the shift lines are distinguished from the trough, since they have no definite connection with the front. Such a deduction is applicable in general cases. The paper concludes with the aim of explaining the orographic boundary layer and formation of the wind shift lines. The authors compared the synoptic position of the observed sample with the flow of the incompressible liquid near the circular cylinder and noted the significant analogy between them.

(continued)

Thanks are extended to Prof YEH Tu-cheng (0673/4648/2973) for his suggestions regarding this work and to Prof T'AO Shih-yen (7118/6108/6056) for reading the original manuscript. LI Yu-lan (2621/3768/5659) and LIU Ch'uan-ken (0491/0356/2704) participated in the work reported in this article; TSENG Yu-ssu (2582/0147/1835) helped with the graphs.

This article was received for publication on 12 July 1962.

Author's Affiliation: Lanchow Institute of Geophysics, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

WENG Tu-ming (5040/4648/7686)  
T'AN Kuan-jih (6223/0385/2480)  
KUEI Hsin-jung (2710/2450/5554)  
P'ANG Chia-t'ang (7894/0857/2768)

"On the Accuracy of Mean Temperature Values"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3,  
pp 351-359

Translation of Russian Abstract: This paper examines the fluctuating monthly mean temperatures over various time intervals at six stations (Hsin-yang, Peiping, Ch'ing-tao, Shanghai, Wuhan, and Ch'ung-tz'u), located in different climatic regions in China. In studying the accuracy of the designated temperatures, an empirical formula was derived which expresses the relationship between the error in the mean temperatures ( $V_n$ ) and the number of years ( $N$ ) over the mean temperatures are computed. The formula is as follows:  $V_n = \frac{N}{aN^2 + bN + c}$ , where a, b, and c are

empirical coefficients varying according to season and region. Several climatological features which affect the accuracy of the computed mean temperatures were also considered. The possibility of interpolating these values in time and in space is studied in relation to time and space error distribution.

(continued)

This paper was received for publication on 21 December 1962.

Authors' Affiliation: All of Nanking Meteorological College.

C-O-N-F-I-D-E-N-T-I-A-L

LO Hsiu-ch'ing (5012/4423/0615)

"On Diffusion of Turbulence From a Continuous Point Source When There Is Vertical Advective Transport"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3, Aug 63, pp 375-381

Translation of Russian Abstract: This paper examines a problem on diffusion from a non-stationary point source in relation to the influences of vertical flow, precipitation of the particles, and the effect of the earth's surface in a turbulent atmosphere. A theoretical formula is derived for the concentration. Several examples are studied, results of which are in good agreement with the experimental data.

This paper, published posthumously, was received for publication on 12 February 1962.

Author's Affiliation: [Formerly] of the Department of Meteorology, Nanking University.

CHAO Pai-lin (6392/2672/2651)  
TING Jung-liang (0002/2837/5328)

"The possibility of Modifying Nimbo-stratus Clouds for Increased Precipitation, (1) On the Sublimation of Ice and Water in an Open System"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3, pp 382-390

Translation of Russian Abstract: "On the Possibility of Modifying Nimbus Stratus Clouds for Increasing Precipitation: 1. Kinetics of Sublimation in an (Open) Supercooled system and on the moisture content balance in clouds. The paper illustrates the optimum quantity of precipitation in nimbo-stratus clouds for increased precipitation.

This paper was received for publication on 22 October 1962.

Authors' Affiliation: Both of Department of Geophysics, Peking University.

C-O-N-F-I-D-E-N-T-I-A-L

HO Chen-chen (0149/3791/3791)

"Photographic Paper Method for the Determination of the Drop Spectra of Droplets"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3, Aug 63, pp 399-401

Abstract: A new method is presented for the sampling of cloud drops, rain drops, droplets, and drizzle drops by the use of waste photographic paper which has been chemically treated with mercuric chloride and potassium iodide.

This paper was received for publication on 9 January 1963.

Author's Affiliation: Institute of Geophysics [and Meteorology], Chinese Academy of Sciences.

T'AO Tsu-wen (7118/4371/2429)

"On Calculating the Angle of the Sun Above the Horizon"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica) Vol 33, No 3, Aug 63, pp 402-407

Abstract: The author presents a new graphical method of calculating the angle of the sun above the horizon as observed from points varying in latitude by 2 or less than 2 degrees.

The author thanks LI Yu-hai (2621/3768/3189) and Lu Chen-ho (7120/2182/0735) for suggestions regarding this work.

Author's Affiliation: Meteorological Observatory of the Central Weather Bureau.

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Shou-chun (7115/0649/6874)

"The Spectra of Large-scale Atmospheric Flow at 100 Millibars (1 January 1962-10 February 1962)"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica), Vol 33, No 3, Aug 63, pp 333-338"

Abstract: English abstract accompanies this article.

The author thanks Prof T'AO Shih-yen (7118/6108/6056) for correcting his manuscript.

This paper was received for publication on 13 November 1962.

Author's Affiliation: Department of Geophysics, Peking University.

HOU I-ju (0186/0076/1172)  
CH'EN Ch'ien (7115/0051)

"The Long Wave Perturbation of Subtropical Jet Stream Over Asia in Summer"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica) Vol 33, No 3, Aug 63, pp 339-349

Abstract: English abstract accompanies this article.

This paper was received for publication on 25 April 1963.

Authors' Affiliation: Lanchow Central Meteorological Observatory.

C-O-N-F-I-D-E-N-T-I-A-L

WANG Shao-wu (3769/4801/2976)

"Studies on the Characteristics and Evolution of Mean Monthly Circulation at 500 Millibars in the Western Hemisphere -- Zonal Index"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica) Vol 33, No 3, Aug 63, pp 360-373

Abstract: English abstract accompanies this article

Thanks are extended to YANG Chien-ch'u (2799/7003/0443) and T'AO Shih-yen (7118/6108/6056) for their suggestions concerning this paper and to HSIAO Wen-chun (5135/2429/0193) for the graphical work.

This paper was received for publication on 15 March 1963.

Author's Affiliation: Department of Geophysics, Peking University.

HUANG Shih-sung (7806/1102/2646)

"A Study of the Longitudinal Movement and Forecasting of Sub-tropical Anti-cyclones"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica) Vol 33, No 3, Aug 63, pp 320-332

Abstract: English abstract accompanies this article.

This paper was received for publication on 27 September 1962.

Author's Affiliation: Department of Meteorology, Nanking University.

C-O-N-F-I-D-E-N-T-I-A-L

LU Ch'i-yao (4151/0366/1031)

"The Influence of Rainfall on the Yield of Winter Wheat in North China"

Peiping, Ch'i-hsiang Hsueh-pao (Acta Meteorologica Sinica) Vol 33, No 3,  
Aug 63, pp 392-398

Abstract: English abstract accompanies this article.

This paper was received for publication on 22 August 1962.

Author's Affiliation: Institute of Geography, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

CHO Chien-cheng (0587/0256/2052)

"Some Problems on the Accurate Estimation of Functions of Equilibrated Values with Respect to the Error Factor in the Initial Data"

Peiping, Tse-hui Hsueh-pao (Acta Geodetica et Cartographica Sinica), Vol 6, No 3, Aug 63, pp 137-159

Excerpts of Russian Abstracts: Purpose of the first section of the article is to correlate procedures of evaluating the accuracy of a function of equilibrated values with respect to the error factor in a classical analytic form.

Procedures of evaluating the accuracy of the functions were developed in the following cases of adjusted geodetic nets:

- a. conditional measurements;
- b. direct measurements;
- c. Kruger projection;
- d. Pranis-Pranevich multi-group adjustment;
- e. in the case when each net has bearing on points of different, higher order nets which were adjusted by various methods and, in a net of each order, certain values were considered as initial data and measured directly.

(continued)

Formulas for theoretical investigation of the error factor of initial data are presented in paragraph 7 of this section and a general analysis of this factor is discussed.

A formula for calculating the mean square error of the function with respect to the error effect of the initial data is introduced in paragraph 8 and, in paragraph 9, criterion has been established which makes it possible, in specific cases, to neglect error effects of initial data when evaluating accuracy.

The essence of evaluating accuracy of the function with and without error factors of initial data is analyzed in the same section.

In the second section of the article the author analyses some important method of investigating initial data error effects and proposes the use of better methods. A detailed analysis of initial data error factors on the accuracy of certain typical urban triangulation and polygonometry is made in conformance to these methods. Corresponding proposals are made at the end of this section.

C-O-N-F-I-D-E-N-T-I-A-L

Empirical formulas from a previous evaluation of the accuracy of length of sides, direction angle, and relative position of points are introduced in the third section of the article. These formulas were obtained on the basis of a detailed study of the process of initial data error effects and compose the entire complex of procedures for solving the problem concerning complete preliminary evaluation of the accuracy (by means of initial data error factors) of an urban or other applied and systematic geodetic basis.

The method of using these formulas in the work of planning an urban systematic basis is also developed in this section. This method has a number of advantages. In addition, for instances of similar examples in question in the second section of the article, these simplified formulas can take the place of rigid formulas and thereby reduce the work involved in calculating accuracy of the function with respect to initial data error factors.

C-O-N-F-I-D-E-N-T-I-A-L

WANG Chih-cho (3069/0037/0587)

"Accurate Estimation of Space Phototriangulation Constructed with Universal-type Instruments"

Peiping, Tse-hui Hsueh-pao (Acta Geodetica et Cartographica Sinica), Vol 6, No 3, Aug 63, pp 175-193

Excerpts of Russian Abstract: This paper investigates the problem of estimating accuracy in horizontal and vertical control by aerial triangulation with standard instruments. It is proposed that two control points at the ends of the nets be used to establish geodetic orientation of the traverse. The case of geodetic orientation of the traverse by six control points is discussed for estimating vertical control accuracy.

The following basic procedure is described to correct an error in control point position. First, take a separate stereopair containing a known control point. Determine error of traverse elements of the outer orientation caused by cumulative errors. Then determine position error of the known point in the stereopair using error frequency formulas.

(continued)

The author attempts to arrive at the most exact derivation of error distribution relationships in the traverse net. He takes into account the fact that formula derivations is quite difficult, but a simple finite answer may be obtained. Practical use of these formulas does not increase the amount of computation work that is involved when working with pure theory. Thus, the established theoretical foundations will be useful in future investigations and practical applications such as methodical outer orientation obtained by physical methods, and finally, in the study of oblique surveying errors.

C-O-N-F-I-D-E-N-T-I-A-L

CHANG K'o-ch'uan (1728/0344/2938)

"Basic Review of Various Methods of Representation on Special Maps"

Peiping, Tse-hui Hsueh-pao (Acta Geodetica et Cartographica Sinica), Vol 6,  
No 3, pp 195-205

Excerpts of Russian Abstract: The designations, characteristics, and application of various methods of representation on special maps are reviewed in brief and compared. Possibilities for the joint application of these methods are discussed and proposals are made for their more practical denomination.

References: A footnote states that the special maps moreover are technical maps.

IU Lin-ch'eng (7627/2651/2052)  
CHANG Shu-shou (4545/2579/1108)

"Investigations on Required Accuracy of a Supporting Net for Large-scale Surveying (in the Form of a Discussion)"

Peiping, Tse-hui Hsueh-pao (Acta Geodetica et Cartographica Sinica), Vol 6,  
No 3, pp 206-215

Excerpts of Russian Abstract: One of the most important problems in geodesy today is the method of distribution of a survey network for a large-scale survey and its required accuracy. This has a direct bearing on the formation of a control network in a city and area as a whole and in editing as well.

The article considers that the method of distribution of a survey network and its accuracy depends on the following technical factors: 1. Deriving basic formulas for estimating the necessary accuracy of the survey net; 2. The ratio of initial errors in data to measurement errors; 3. Error in the location of a lower order analytical survey network point; and 4. The largest scale of surveying in a city and an industrial area.

C-O-N-F-I-D-E-N-T-I-A-L

YU Yung-hsiung (3266/3057/7160)

"Simultaneous Determination of Azimuth, Latitude, and Longitude by Equal Hour Angle Method"

Peiping, Tse-hui Hsueh-pao (Acta Geodetica et Cartographica Sinica), Vol 6, No 3, Aug 63, pp 161-173

Abstract: English abstract accompanies this article.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Te-ch'ien (7115/1795/3383)

"Tapiolite Ores From a Granopegmatite"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63,  
pp 281-285

Excerpts of Russian Abstract: This paper describes the chemical and physical characteristics of the mineral tapiolite found in granite pegmatite. The data is summarized in appended tables. X-ray study of the mineral, conducted by G. A. Sidorenko, demonstrates that the mineral belongs to the rutile group. Refraction indices were calculated along the Hall curve, from which the dimensions of the unit cell were determined. The parameter of this specimen is somewhat lower than the tapiolite from Skogbole Kimito, Finland. The thermal curve, constructed by L. I. Rybakova, showed a lack of exothermic and endothermic effects. The infra-red absorption spectra obtained by L. S. Solntseva do not differ in any respect from the tantalite spectra. Interpretation of the analyses on two cations of the group "B", assuming that the mineral belongs to the group  $AB_2X_6$ , result in the following formula:  $(Fe_{0.82}Mn_{0.17}Mg_{0.01})_1(Ta_{1.30}Nb_{0.55}Ti_{0.15})_2O_{5.93}$  This mineral is adapted to sections of albitized granopegmatite. Beryl, columbite, cassiterite, tourmaline, garnet, and zircon occur in association with the mineral. The main properties of tapiolite, columbite-tantalite, and ilmenorutile-struverite are summarized in Table 5.

References: All 4 references are in Russian; date span is 1951-1959.

This paper was received for publication on 11 February 1963.

C-O-N-F-I-D-E-N-T-I-A-L

KUO Shu-hsin (6753/2884/2450)

"Geology of Phosphorite Deposits at the Base of the Sinian Along the Eastern End of Tai-hsing Range"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63, pp 291-301

Excerpts of Russian Abstract: This paper was written on factual material obtained from two ore-bearing regions. The author's five conclusions in summary are: (1) The studied area is geotectonically located where the Shan-hsi anticline joins the Ho-huei syncline; (2) The basal conglomerate of the Sinian system is very complex in its facies and strongly metamorphic along its thickness; (3) The ores appear as massive, and more rarely, as banded, pebble-shaped, and yellowish phosphorites; (4) Two types of secondary change -- diagenetic and epigenetic -- occur in the phosphorites; and (5) The studied deposits were formed in a shallow basin with normal salinity during temperate and humid climates.

References: Only 3 references in Chinese are used; one reference, dated 1956, is a translation from the Russian.

This paper was received for publication on 14 May 1962.

P'ENG Fu-nan (1756/7079/0589)

"The Ice-Scarped Geomorphological Features of Northern Liaotung Peninsula"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63, pp 303-313

Translation of Russian Abstract: This paper describes geomorphological features in the region of northern Liaotung Peninsula and fluvial-glaciation sedimentation. It also briefly analyzes the features of the structure and development of the longitudinal and transverse valleys of the Pin-liao-ho and the Ha-li-ho. The conclusion derived from the obtained factual material is that the development of the relief in this region occurred under glaciation conditions and that the study of glaciation traces in this territory is of exceptional interest.

References: Date span of 16 references is 1914-1958; 11 references are in Chinese, 2 in Russian, and 3 in English.

This paper was received for publication on 21 March 1960.

C-O-N-F-I-D-E-N-T-I-A-L

LI Shan-chi (2621/0810/1213)  
WANG Tsun-chou (3769/1415/0719)

"On the Middle Cambrian Stratigraphy of Eastern Yunnan with Reference to Some New Species of Trilobite Fauna"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63,  
pp 205-211

Summary: English summary accompanies this article.

The authors express thanks to team-workers for collecting data in the field of stratigraphy; especially to Prof SUN Yun-chu (1327/0061/6999) and Prof CH'ANG Lung-ch'ing (1603/7127/1987) for reviewing this paper; and to Prof CHOU Hsiao-ho (0719/2556/0735) for editing the English summary.

References: Of the 11 references listed in this paper, three are in Chinese, one in French, and the rest are in English. Date span of references is 1916-1959.

This paper was received for publication in September 1962.

LI Ch'un-yu (2621/2504/2509)

[Preliminary Study of the Tectonic Development of the K'ang-Tien (Szechuan-Yunnan) Axis"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63,  
pp 214-228

Abstract: English abstract accompanies this article.

References: Of the 16 references listed, only one is in English, date span is 1931-1962.

This paper was received for publication on 11 January 1963.

C-O-N-F-I-D-E-N-T-I-A-L

LIU Ju-ch'i (0491/1172/3823)

"Boudinage Structures of the Upper Devonian Yueh-lu Sandstone Group  
in Yueh-lu-shan, Changsha, Hunan Province"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63  
pp 230-239

Abstract: English abstract accompanies this article.

The author expresses thanks to CH'EN Yueh-lan (7115/2588/5695) for  
assisting in drawing the charts and sketches of this paper.

References: Date span of the 13 references is 1909-1960; two references  
are in Chinese, one Belgium, one Russian, and the rest in English. One  
of the Chinese references is a translation of a Russian article.

This paper was received for publication on 24 September 1962.

LI Tsun-t'i (2621/1317/1879)

LI Hua-mei (2621/5478/2734)

LIU Hai-shan (0491/3189/1472)

LIU Ch'un (0491/2797)

YEH Su-chuan (5509/4790/1227)

"Preliminary Study of Palaeomagnetism of Some Cenozoic Red Beds in South  
China"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63,  
pp 241-245

Abstract: English abstract accompanies this article.

References: Three Russian, one English and one Chinese references are  
used in this paper. Date span of these references is 1953-1961.

This paper was received for publication in December 1962.

C-O-N-F-I-D-E-N-T-I-A-L

KUO Wen-k'uei (6753/2429/7608)

"The Problems of Hypogene Zoning and Its Genesis of Certain Ore Deposits"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63,  
pp 247-268

Abstract: English abstract accompanies this article.

References: Date span of 40 references is 1907-1962. Eighteen references are in Chinese, one in French and three in Russian; the one in French was written by W. H. Wong, a Chinese.

LI T'ung (7812/1749)

JAO Chi-lung (7437/4764/7893)

"The Average Chemical Composition of Igneous Rocks in China"

Peiping, Ti-chih Hsueh-pao (Acta Geologica Sinica), Vol 43, No 3, Aug 63,  
pp 271-280

Abstract: English abstract accompanies this article.

References: Four English and two Russian references are listed in this paper; date span is 1924-1962.

This paper was received for publication on 5 February 1963.

C-O-N-F-I-D-E-N-T-I-A-L

YANG Ching-chih (2799/2417/0037)  
TUNG Te-yuan (5516/1795/3293)

"Stromatoporoids From the Jiwozhai Member, Upper Part of the Middle  
Devonian of Tu-shan District, Kueichow"

Peiping, Ku-sheng-wu Hsueh-pao (Acta Palaeontologica Sinica), Vol 11,  
No 2, pp 147-165

Abstract: English Summary accompanies this article.

Authors' Affiliation: Institute of Geology and Paleontology, Chinese  
Academy of Sciences.

CHANG Lin-hsin (1728/6689/0207)

"Fusilinids of the Late Carboniferous Period in K'o-p'ing and Other Nearby  
Regions in Sinkiang (II)"

Peiping, Ku-sheng-wu Hsueh-pao (Acta Palaeontologica Sinica), Vol 11,  
No 2, pp 200-218

Russian summary accompanies this article.

The first part of this article was carried in Ku-sheng-wu Hsueh-pao  
(Acta Paleontologica Sinica), Vol 11, No 1, Feb 63, pp 36-55.

Author's Affiliation: Institute of Geology and Paleontology, Chinese  
Academy of Sciences.

SUNG Shu-ho (1345/0647/0735)

"On the Problem of the Spillite-Keratophyre Formation of Northern Chilianshan"

Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1727-1736

Text of English Summary: Since the petrological nomenclatures of spillite and keratophyre were proposed and defined, the study of their characteristics has lasted for more than one hundred years. Many geologists, for example, N. Sundius, J. Gilluly, A. K. Wells, and A. N. Zavaritskiy, have studied them and made valuable contributions. In China, the spillite-keratophyre formation in northern Chilianshan was first discovered by a geological party in 1953. Later LIU Pao-chin and HSIEH Kuang-hun, etc. also studied the rocks from the petrochemical point of view. LIU proved the existence of spillite-keratophyre in northern Chilianshan, while HSIEH doubted its existence. The present writer, however, is of the same view as the former, and considers that the majority of the volcanic rock series of northern Chilianshan belongs to the spillite-keratophyre formation. The main reasons presented here fall into two parts, i.e., the definition of the spillite-keratophyre formation. The main reasons presented here fall into two parts, i.e., the definition of the spillite-keratophyre formation, and the general characteristics of the spillite-keratophyre formation of northern Chilianshan.

(continued)

References: Of the 7 references, 6 are in English, including one by the author, and one in Russian by A. N. Zavaritskiy.

This paper was received for publication on 3 January 1963.

Author's Affiliation: Northwest Institute of Geology, Ministry of Geology.

C-O-N-F-I-D-E-N-T-I-A-L

Technical Sciences

LIU Tz'u-ch'un (0491/1964/5028)

"On the Nonsteady State One-Dimensional Filtration of a Liquid Through a Non-Homogenous Two-Layer Stratum of Oil"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 6, No 3, Sep 63, pp 219-230

Translation of Russian Abstract: The problem on unsteady filtration of a liquid through a heterogenous two-layer stratum could be reduced to an integrated system of parabolic differential equations. A number of solutions were obtained by applying the Laplace transformation to the proposed problem. These solutions aided in explaining certain characteristics of pressure redistribution in a heterogenous two-layer stratum during unsteady filtration of the liquid. This is of definite value in working with oil deposits of elastic regime and investigation of oil wells. The specific cases of solutions obtained in this paper are heretofore known solutions of a similar problem.

This paper was received for publication on 29 January 1963.

Author's Affiliation: Lanchow Institute of Geology, Chinese Academy of Sciences.

HSUEH Ta-wei (5641/1129/3634)

"The Thermal Stresses of Circular-Based, Shallow Spherical Shells Under the Action of Uniform Temperature Distribution on Outer and Inner Surfaces"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 6, No 3, Sep 63, pp 232-236

Abstract: The author presents a convenient and relatively accurate method of calculating by means of Bessel functions the thermal stresses of shallow spherical shells with circular bases such as are commonly used in construction. Various conditions of axisymmetrical boundary support are considered.

This paper was received for publication on 1 July 1962.

Author's Affiliation: Peking Industrial College.

C-O-N-F-I-D-E-N-T-I-A-L

YUN Ta-chen (0061/1129/4176)

"Calculation of Stress by the Light Convergence Method in Three-Dimensional Photoelasticity"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 6, No 3, Sep 63, pp 237-239

Abstract: A method of stress analysis is presented which combines the use of the conical polarized light method and the collimated light method in three-dimensional photoelasticity. Conical polarized light is used in the setup of experimental apparatus whereas the concept of the collimated light method is used in the stress calculations. According to the author, his method makes possible the calculation of stresses from a single light pattern, thus eliminating the need of several projections.

This paper was received for publication on 18 September 1962.

Author's Affiliation: Dairen Engineering College.

CH'EN Chih-ta (7115/5267/6671)

"A Supplementary Note on the Author's Paper 'A Direct Method for Solving Plane Elasticity Problems Based Only on Photoelastic Isochromatic Pattern'"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 6, No 3, Sep 63, pp 241-242

Abstract: As a supplement to his paper, which was published in the Volume 5, No 3, 1962 issue of Li-hsueh Hsueh-pao, the author shows the derivation of a formula for solving plane elasticity problem when a change in direction of principal stress occurs along a curvilinear boundary.

The author thanks the following persons for suggestions they made after reading his published paper, which suggestions prompted the writing of this supplement: FU Hsin-min (0265/2450/3046), YANG Hsai-t'ang (2799/2849/1016), and CHANG Yung-fu (1728/3057/4395).

This paper was received for publication on 25 April 1963.

Author's Affiliation: Peking Institute of Mining and Metallurgy.

C-O-N-F-I-D-E-N-T-I-A-L

CHUNG Wan-hsieh (6945/8001/0533)

"Analysis of Simply-Supported Rectangular-Based Shallow Elliptical Shells"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 6, No 3, Sep 63,  
pp 173-187

Abstract: English abstract accompanies this article.

This paper was received for publication on 9 June 1962.

Author's Affiliation: Dairen Engineering College.

SUN Kuo-ying (1327/0948/2819)

"On the Equilibrium of an Infinite Elastic Stick Plate and Its Application in Problems of Multi-Layer Foundations"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 6, No 3, Sep 63,  
pp 188-198

Abstract: English abstract accompanies this article.

This paper was received for publication on 31 July 1962.

Author's Affiliation: Tung-ch'i University.

C-O-N-F-I-D-E-N-T-I-A-L

LO Tsu-tao (5012/4371/6670)  
P'AN Chi-hao (3382/4764/3185)

"Azisymmetrical Bending of a Shallow Paraboloidal Shell"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 6, No 3, Sep 63,  
pp 200-217

Abstract: English abstract accompanies this article.

This paper was read at the October 1962 scientific conference on the  
theory of plates and shells, sponsored by the Chinese Mechanics Society.

Authors' Affiliation: Chiao-t'ung University, Shanghai.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

CHAO Tsu-wu (6392/4371/2976)

"Creep and Relaxation in Concrete and Elastic After-Effects"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 62, pp 143-151

Translation of Russian Abstract: This article describes the correlation between stress and deformation in concrete:

$$\epsilon = \frac{\sigma}{E(t)} + \int_{t_0}^t \sigma K(t-\tau, \tau) d\tau + \int_{t_0}^t \sigma \left[ F(\tau) - \frac{\partial}{\partial \tau} \frac{1}{E(\tau)} \right] d\tau. \quad (1)$$

The nucleus K has the following properties:

$$\begin{aligned} [K(t-\tau, \tau)]_{(t-\tau) \rightarrow \infty} &= 0, \\ \left[ \int_{t_0}^t K(t-\tau, \tau) d\tau \right]_{(t-t_0) \rightarrow \infty} &= \text{const.} \end{aligned}$$

(continued)

The first integral on the right-hand side of equation (1) is a reversible part of creep deformation, which has a constant value after sufficiently long effect of constant load and not depending on the increase in load application. This is in approximate agreement with experimental data. Moreover, it is evident from equation (1) that over sufficient time for the load effect, all the curves of concrete, are parallel and have an even gradient  $F(\tau)$ , dependent only on the increase Taking  $\frac{1}{E}$ , K and F the following equations

$$\begin{aligned} \frac{1}{E(t)} &= A + \sum_i B_i e^{-\alpha_i t}, \\ K(t-\tau) &= C e^{-\lambda(t-\tau)}, \\ F(\tau) &= \sum_j D_j e^{-\beta_j \tau} \end{aligned}$$

obtaining the relaxation curves. Comparison of the calculations with the experimental data indicates that the maximum divergence is about 10 percent.

This paper was received for publication on 14 June 1961.

Author's Affiliation: Tientsin University.

C-O-N-F-I-D-E-N-T-I-A-L

HO Kuang-ch'ien (0149/1684/0051)  
CH'EN Fu (7115/0126)

"Formula for Calculating Stress Function Boundary Value,  $\phi_r$ , for Rectangular Based Shallow Shells Either Simply-Supported on Four Sides or Encased on Fixed Roller Supports Under Any Vertical Load"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 62, pp 186-189

Abstract: This paper shows the derivation of a general formula for calculating the boundary value of the stress function of any type of rectangular flat shell which is either simply-supported on four sides or encased on roller supports and is under the action of a vertical load. It shows how to find the boundary conditions using fundamental differential equations in which stress function and vertical displacement are unknown quantities. In addition, a simple method is presented for treating the fundamental differential equation when the stress function boundary value is not equal to zero.

The author thanks CHANG Wei-yueh (1728/4850/1547) and YEH Yao-hsien (0673/5069/0341) for their discussions.

(continued)

This paper was received for publication on 11 April 1962.

Authors' Affiliation: Both of Research Institutes of Architecture and Construction, Ministry of Building.

C-O-N-F-I-D-E-N-T-I-A-L

LIU Ch'un-t'u (2692/2504/0956)

"The Use of the Generalized Variational Principle in the Calculation of Natural Frequencies of Shallow Shells"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 63, pp 190-197

Abstract: This paper presents an approximation method for calculating the natural frequencies of shallow shells and demonstrates its use with respect to rectangular-based, spherical-surfaced shallow shells with the following sets of boundary conditions: 1) two opposite sides simply supported, and two opposite sides fixed; 2) three sides simply supported, one side fixed. The method is also applicable to shallow shells with other boundary conditions.

The work reported in this paper was conducted under the guidance of HU Hai-ch'ang (5170/3189/2490). The author was helped by the research work of LIU Shih-ning (0491/0013/1380) on the generalized variational principle of shallow shells. Thanks are extended to the following persons for their participation in the calculation and discussions: YUAN Hsien-chun (5913/6343/6874), CH'AI Chin-wu (2693/6651/2976), WANG Ching-lung (3769/2529/7893), and CHENG Jui-fen (6774/3843/5358).

(continued)

This paper was received for publication on 1 September 1961.

Author's Affiliation: Institute of Mechanics, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

HU Hai-ch'ang (5170/3189/2490)

"Some Opinions on the Paper, 'Oscillating Air Foil in Parallel Streams Separated By a Non-continuous Interface'"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 62, pp 198-199

Abstract: Reference is made to a research paper by IO Shih-chun (5012/2514/6874) which was published in the Li-hsueh Hsueh-pao, Volume 1, No 3, 1957, pages 288-313. Several errors in the discussions and calculations of that paper, which reportedly had aroused great interest in China in the problem of oscillation of tailwings, are pointed out and analyzed.

The author states that in writing this paper he received encouragement and support from CH' IEN Hsueh-sen (6929/1331/2773).

This paper was received for publication on 9 February 1962.

An editorial note states that a preliminary copy of the present paper was sent to IO Shih-chun who subsequently acknowledged his errors.

Author's Affiliation: Institute of Mechanics, Chinese Academy of Sciences.

SHEN Ch'ing (3088/7230)

"Does the Model of Specular Reflection In Free Molecule Flow Contradict Itself? -- About the Mistakes of M. Z. V. Krzywoblocki's Paper 'On the Fundamental Aspects of Free Molecule Flow'"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 62, pp 200-203

Text of English Abstract: In the present paper, two mistakes in reasoning of M. Z. V. Krzywoblocki's work [1] are pointed out, namely: (1) on calculating the reflected momentum the direction of reflection had been mishandled; (2) the momentum flux carried by the molecules and the stress suffered by the surface had been incorrectly identified (in fact they are, in the case of reflection, directed opposite to each other and hence have the different signs). Due to these two mistakes, he drew the unjustifiable conclusion that the model of specular reflection contradicts itself, namely: either  $F_R \neq P_1$ ,  $\tau_R \neq -\tau_1$ ; or, if  $F_R = P_1$ ,  $\tau_R = -\tau_1$ , which would be physically absurd. Using his calculation we have proved that CH' IEN's suggestion  $F_R = P_1$ ,  $\tau_R = -\tau_1$  is correct. In [1], Krzywoblocki enumerated three "theoretically possible" cases of alteration in the normal velocity component under the specular reflection:

$$a) \xi_r^{(a)} = -\xi' + e_1 U^{[a]}, \quad b) \xi_r^{(b)} = \xi' + e_1 U^{[a]}, \quad c) \xi_r^{(c)} = -\xi' - e_1 U^{[4]},$$

(continued)

and showed that the case c) must be excluded, but he suggested that it seems impossible to establish which of the remainders is the correct one. In a simple example, we have shown that the case suggested by Ch'ien is physically the most possible one. Pointing out the mistakes of M. Z. V. Krzywoblocki's paper, we nevertheless share his opinion that it is necessary to use the quantum mechanics and statistical fluid dynamics to solve the problem of molecule-surface interaction.

References: The references cited in the above English abstract are as follows: [1] Krzywoblocki, M. Z. v., On the fundamental aspects of free molecule flow, Rarefied gas dynamics, Proceedings of the first international symposium held at Nice, edited by F. M. Devienne, Pergamon Press, 1960, 352-366. [2] CH' IEN Hsueh-sen, Superaerodynamics, mechanics of rarefied gases, J. Aero. Sci., 13, 12, Dec. 1946, 653-664. [3] Heineman, M. Theory of drag in highly rarefied gases, Comm. Pure Appl. Maths., 1, 3, Sep 1948, 259-273. [4] Krzywoblocki, M. Z. v., On some problems in free molecule-slip flow regimes, Acta Phys. Austriaca, 9, 3-4, 1955, 216-257.

This paper was received for publication on 12 April 1962.

Author's Affiliation: Institute of Mechanics, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

HSUEH Ta-wei (5641/1129/3634)

"On the Thermal Stress of Shallow Shells"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 62,  
pp 204-206

Abstract: In the first part of this research paper, the author shows the derivation of a basic formula for the thermal stress of shallow shells, pointing out that the formulas given by V. Z. Vlasov, in a book published by Chinese Academy of Sciences, are incorrect. In the second part of the paper the author shows mathematically that the thermal stress problem of a simply support shallow shell is analogous to that of an elastic foundation mat if  $t_1$  and  $t_2$  are constants.

This paper was received for publication on 30 November 1961.

Author's Affiliation: Peking Industrial College.

CHIA Yu-ch'uan (6328/2589/2938)

FU I-lin (5685/5065/2651)

HSIAO Wei (5135/3634)

KAO Jui-t'ing (7559/3843/0080)

YANG Ch'ing-ling (2799/1987/7881)

YANG Hai-yuan (2799/3189/0339)

"Stress Analysis of the Crown in a Water Turbine Under the Action of the Buoyancy of Water"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 62,  
pp 153-167

Abstract: English abstract accompanies this paper.

The paper was received for publication on 16 May 1961.

Authors' Affiliation: All of Tsinghua University.

C-O-N-F-I-D-E-N-T-I-A-L

CHUNG Wan-hsieh (6945/8001/0533)

"The Solution of Orthotropic Cylindrical Shells With No Bending Moment by Section Expansion of Eigenfunction Series"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 63, pp 165-177

Abstract: English abstract accompanies this article.

Besides three Russian references, the author cites a Chinese research paper which he co-authored with HU Hai-ch'ang (5170/3189/2490). The paper, "On the Flexural Vibrations of a Pipe Line Containing Flowing Fluid," was published in Proceedings of the Third Congress of Theoretical and Applied Mechanics, Bangalore, India, December 1957.

The author thanks HU Hai-ch'ang for invaluable suggestions given after reading his preliminary manuscript.

This paper was received for publication on 26 January 1962.

Author's Affiliation: Institute of Mechanics, Chinese Academy of Sciences.

CH'EN Chih-ta (7115/5267/6671)

"A Direct Method for Solving Plane Elasticity Problem Based Solely on Photoelastic isochromatic-Pattern"

Peiping, Li-hsueh Hsueh-pao (Acta Mechanica Sinica), Vol 5, No 3, Sep 62, pp 178-184

Abstract: English abstract accompanies this article.

This paper was received for publication on 14 February 1962.

Author's Affiliation: Peking College of Mining and Metallurgy.

C-O-N-F-I-D-E-N-T-I-A-L

P'AN Chia-cheng (3382/1367/6927)

"The Analysis of Circular Arches on Elastic Foundations"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering),  
Vol No 9, No 2, Mar 63, pp 1-10

Translation of Chinese Abstract: This paper discusses an analysis of circular arches on "Wen-k'o-erh Foundations." At first it gives general equations and then gives a solution to symmetrical and nonsymmetrical situations. Afterwards, it discusses the equations in real use. By utilizing the results of this paper one can reasonably analyze several questions on building structures that were considered difficult to solve in the past, for example; to calculate the problem of stress in an anti-arched or underground forked tunnel lined with brick.

Author's Affiliation: Shanghai Designing Academy of Surveying, Ministry of Water Conservancy and Electric Power.

WANG Ch'i-cho (3769/0796/8743)  
CH'IN Ken-fu (4440/2704/4395)

"On the Design of Hammer Foundations and Forging Shop Structures"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol No 9, No 2, Mar 63, pp 11-22

Excerpts of Chinese Abstract: This paper is a practical investigation on the basis of data, which brings out a new concept on the design of forging shop structures. Now, in the design of hammer foundations and forging shop structures, we regard the two phases as one mutually involved unit, but pointing out that in the past we started to promote the design directly from controlling amplitude of vibration which was not all-compassing.

References: Eleven are listed, 7 of which are in Chinese, dating from 1955 to 1961.

Authors' Affiliation: Both of Shanghai Designing Academy of Mining Machinery.

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Chu-chiang (3088/3796/3068)

"The Rule of Variation of the Shear Strength of Saturated Clay and Its Application to the Stability Analysis of the Earth-Works"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol No 9, No 2, Mar 63, pp 29-36

Excerpts of Chinese Abstract: This first part of this paper discusses the course of change in the shear resistance of the change in load and density in saturated weak clays, which is evidenced by the sole relationship between water volume and resistance in effective compressed stress under conditions of destruction. The middle part of this paper especially stresses the great significance of the swelling and shearing of the soil in regards to resistance.

The second part of this paper discusses the specific application of the course of change of resistance in the stability analysis of the earth-works and not approach a stress condition of elasticity.

Author's Affiliation: Nanking Research Institute of Water Conservancy, Ministry of Water Conservancy and Electric Power and Ministry of Communications.

HUANG Ch'iang (7806/1730)

"On the Gradations of the Loessial Soil Foundation"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol No 9, No 2, Mar 63, pp 37-42

Excerpts of Chinese Abstracts: This paper points out that the loess soil of the swamp depressions can be divided into two categories; one in which the swamp depression sank from its own weight and one in which the swamp depression did not sink of its own weight. According to results of research done, it is recognized that some of the earth foundation under the building foundations is the most dangerous area, and the swamp depression of this area should be one of the most important factors in determining the steps to be taken. The possibility of the construction being waterlogged, the form of the structure, and importance of construction also are conditions that must be estimated. Because of this the methods of foundation estimates should be determined after careful deliberation and consideration of these three conditions.

Author's Affiliation: Academy of Architectural Engineering, Ministry of Building.

C-O-N-F-I-D-E-N-T-I-A-L

CHU Mei-sheng (2612/2734/3932)

"A Simplified Calculation of Earth Pressure Behind the Retaining Wall Under Special Conditions"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol No 9, No 2, Mar 63, pp 43-48

Excerpts of Chinese Abstracts: This paper infers that when a retaining wall is of a discontinuous line and when it is under seismic pressure or the pressure of moving water or at the time of a combination of circumstances, it is only necessary to change several items of concerning values which would cause the obtaining of the earth pressure by means of general calculation methods or charts.

Author's Affiliation: Fourth Designing Academy, Ministry of Railways.

YANG Ts'an-wen (2799/3605/2429)  
KUNG Ya-li (7895/0068/7787)

"The Dynamic Stress and Vibration in Railway Roadbed During the Passing of Trains"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol No 9, No 2, Mar 63, pp 49-57

Translation of Chinese Abstract: This paper, according to estimated data by the Research Academy of Railways on the dynamic stress and vibration in several roadbeds discusses the following separately: conditions of the rates in regard to the influence of dynamic stress on the roadbeds; traveling speed in regards to the influence of dynamic stress and vibration on the roadbed, the distribution of dynamic stress on roadbeds and the perpendicular towards the attenuation of vibration. The middle of this paper also discusses the formula for calculating the stress on the roadbed surface, and moreover, produces results of calculations and estimations made on the theory of stress on roadbeds.

Authors' Affiliation: Both of Research Academy of Railways.

- - - - -  
"Working Properties of Ordinary Reinforced Concrete Structure Under High Temperature (No 2)"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 2, Mar 63, pp 23-27

Abstract: Not given.

Authors' Affiliation: No personal name is given. The High Temperature Structures Division and the Steel-Reinforced Concrete Structure Division, both of the Architectural Engineering Structures Laboratory, Building and Research Institute of the Ministry of Metallurgical Industry are names as the contributors of this article.

LI Chu-ch'ing (2621/2691/7230)

"Discussion on 'The Seismic Load for Industrial and Civic Buildings' (No 1)"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 2, Mar 63, pp 58-60

Abstract: Not given.

Author's Affiliation: Harbin Architectural Engineering College.

C-O-N-F-I-D-E-N-T-I-A-L

LIN Yuan-p'ei (2651/0337/1014)  
CHANG Mai-hua (1728/6621/5478)

"Discussion on 'The Space Calculation of the Reinforced Concrete Beam Bridge With the Ratio Between the Work and Span Less Than 0.5' (No 1)"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 2, Mar 63, pp 61-62

Abstract: Not given.

Authors' Affiliation: East China Designing Academy for Municipal Government Construction.

FANG Hsing-chien (2455/5887/0256)

"A Theoretical Solution of the Two-Dimension Problem of Beams on Elastic Foundation"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 1-10

Translation of Chinese Abstract: This paper starts out directly from the theory of elasticity and two-dimension problem and derives a solution of the two-dimension problem of beams on elastic foundation under various types of basic loads, and moreover specifically obtains a mathematical formula of the bending moment, cutting strength, and foundationary action of the beams.

The middle portion of this paper has several formulas expressing broad integrated calculus, so as to calculate the purpose object conveniently. It also brings out expressed formulas calculated with similar calculus.

Using the methods applied in this paper it is possible to calculate the two-dimension problem of beams on an elastic foundation.

Author's Affiliation: Designing Section, Wu-hu Municipal Architectural Engineering Company.

C-O-N-F-I-D-E-N-T-I-A-L

CH' IEN Chia-huan (6929/1367/2970)

"Settlements of Some Sluices Foundations in the Northern Part of Kiangsu Province and Their Relations with Time"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 11-15.

Excerpts of Chinese Abstract: This paper reports on the change of modulus  $E$  of various soil layers according to the settlement coming from within the reaction of the foundation, and also according to experiments within the laboratory obtained compression modulus  $E_s$  of various corresponding strata, and established the experienced relationship of  $E$  and  $E_s$ , which caused the seeking to calculate the greatest settlement characteristics of sluice foundations, and moreover transformed the one-sided great phenomenon of past calculated values.

In addition they compare the scientific theory of flow change, and according to observations of settlements and time curves they compute the coefficient viscosity  $K$ , and at the same time according to data from experiments within the laboratory, they calculated the theoretical coefficient viscosity  $K_s$  of various foundations, and thereby established the experienced relationships of  $K_s$  and  $K/K_s$ , which caused the computation of the settlements and time curves of sluices.

Author's Affiliation: East China Hydraulic Engineering College.

PAO Chih-sun (7637/6347/1327)

"Analysis of Hinged Bents with Irregular Column Arrangement"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 16-21

Excerpts of Chinese Abstract: Hinged bents with irregular column arrangement can be divided into two categories: The first category is some column arrangements and column intervals that generally increase 100 percent; the second principle is individual column intervals that increase 100 percent. They all can use the elasticity bearing on the principles of beams, and carries out analyzation in considering the function of space in a house. This paper brings out these formulas of calculation, and also sketches curves so as to supply them for utilization or comparison in designs. The middle of this paper also inquires about their simplified calculation methods. In regards to the first category of bents S. M. Tubin has proposed the use of a unit analyzation method, which however is not an exact analyzation investigation. This paper promotes a comparison of several of these unit analyzation methods with elastic bearing beam methods. In regards to the second category of bents this paper promotes a detailed discussion in regards to the recommended method of Prof N. S. Strelepskiy, and moreover makes a comparison of several of these methods. Passing through analytical comparisons, in regards to the second category, as proposed several different simplified methods of calculation according to the load characteristics as well as the rigidity characteristics of houses with bents.

C-O-N-F-I-D-E-N-T-I-A-L

CH'IEW P'ei-feng (6929/1014/7364)

"Research of the Combination Factor of Modal Response of Chimney Under Seismic Action"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 22-28

Translation of Chinese Abstract: This paper according to mathematical statistical methods, analyzes, to our nearest calculation, the combination question of modal response of seven chimneys separately under four strong seismic actions. In regards to several thousand data applied through experiments, they first sought out several types of statistical measurements closely associated with the combination factors of modal response, and to establish their standard of correlation, afterwards to seek out their converse equations in a strong framework of correlated properties. And, after that, to bring forward a combination factor which would be convenient to apply.

Workers from the first section of the Institute of Dynamics, Szechwan Branch, Chinese Academy of Sciences, participated in the calculations and experimental works of this paper.

Author's Affiliation: Southwest Institute of Technical Physics, Chinese Academy of Sciences.

HSU Hsing-yu (1776/5281/3768)  
WANG Chih-chiang (3769/0037/3068)  
TUNG Yu-yuan (5516/1635/0954)  
LIU Tso-lin (0491/0155/7207)

"The Three-Dimensional Analysis of Pile Group With a Rigid Cap"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 29-37

Excerpts of Chinese Abstract: In constructing piers and bridge pillars one often utilizes pile group structures. If the arrangement of the post in these structures are not symmetrical and do not have different inclinations, surface structure dispositions cannot be made. It must, according to space structures, bring forward calculations. This paper, in regards to the pile caps acting as the general characteristic of space structures, deduces a formula and bring up computation examples. The calculation methods in this paper are already being used in construction in China.

Authors' Affiliation: All of East China Designing Academy for Municipal Government Construction.

C-O-N-F-I-D-E-N-T-I-A-L

SHU Wen-lung (5289/2429/7893)

"Economic Design of Rectangular Sedimentation Tanks"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 38-46

Translation of Chinese Abstract: In the various design methods of rectangular sedimentation tanks now in use, the range which directly determines the level current velocity  $V$  is quite broad. Under specified conditions, various sedimentation directly designed to different velocities all can meet design demands, but their surface measurement and construction expense cannot be considered the same. This paper according to technical and economic demands, starts from the design velocity with the lowest construction expense, and brings forward various formulas of technical and economic designs pertinent to sedimentation tanks.

Author's Affiliation: Research Academy of Construction, Ministry of Metallurgical Industry.

YU Tsung-ming (0151/1350/2494)

"A Rational Method for Analyzing Reinforced Concrete Trusses"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 43-46

Abstract: Not given

C-O-N-F-I-D-E-N-T-I-A-L

CHU P'in-ju (2612/5111/0320)

"Statical Analysis of Framed Panel Structures Under Horizontal Loads"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 47-52

Abstract: Not given.

Author's Affiliation: Harbin Architectural Engineering College.

CH'IEH Chung-i (6929/6945/3015)

"Buckling of Compositied Compressive Member of Timber"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 53-56

Abstract: Not given.

Author's Affiliation: Foochow University.

C-O-N-F-I-D-E-N-T-I-A-L

CHUNG Wan-hsieh (6945/5502/0533)

"The Calculation of Thermal Stresses of Rectangular Shallow Shell with Unequal Curvatures Simply Supported at Four Edges"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 57-60

Abstract: Not given.

Author's Affiliation: Department of Theoretical Mechanics, Dairen Engineering College.

YANG Kuo-hsien (2799/0948/0341)

"Discussion on 'The Spce Calculation of the Reinforced Concrete Beam Bridge with the Ratio Between the Width and Span Less Than 0.5' (II)"

Peiping, T'u-mu Kung-ch'eng Hsueh-pao (Chinese Journal of Civil Engineering), Vol 9, No 3, May 63, pp 61-64

Abstract: Not given.

Author's Affiliation: Ch'eng-tu Railway School.

C-O-N-F-I-D-E-N-T-I-A-L

CH' IEN Yun-lien (6929/7301/5571)  
SU Yao-hsi (5685/1031/3556)  
P'AN Min-ch'in (3382/2404/0530)  
SU Hsueh-ch'in (5685/7185/5367)

"Some Problems of Nursery and Kindergarten Design"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63, pp 1-5

Abstract: Not given.

CHANG Shih-cheng (1728/0013/2398)  
KU Fu-pao (7357/7450/0202)

"A Survey of Hospitals for Chinese Medical Science"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
pp 6-11

Abstract: Not given.

C-O-N-F-I-D-E-N-T-I-A-L

WANG Meng-ch'ao (3769/1322/6389)  
FENG Yung-k'ang (7458/3057/1660)

"A Brief Description of Designs for the Primary and Middle School for  
Shanghai, 1962"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
pp 17-19

Abstract: Not given.

HSU Hsien-chung (6079/7359/1813)  
TING Sheng-pao (0002/7105/0202)  
TS'AI Nien-hsin (5591/1819/8590)

"Reconstruction of the Nantung People's Theater"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
pp 20-21

Abstract: Not given.

C-O-N-F-I-D-E-N-T-I-A-L

CHUANG Chen-fang (1641/6966/5364)  
WANG Yung-mei (3769/6102/2734)  
P'AN Ch'un-hsiu (3382/3196/0208)

"Make the Best of the Uselessness--Remodel the Old Building for a Hospital"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
pp 22-23

Abstract: Not given.

WANG Jung-shou (3769/2837/1108)

"The Problem of Kitchen-Exhaust"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
p 24

Abstract: Not given.

C-O-N-F-I-D-E-N-T-I-A-L

PAI Tso-min (4101/0146/3046)

"On Portico Design for Public Buildings"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
p 25

Abstract: Not given.

WANG Shih-jen (3769/0013/0088)

"The Earliest Conceptions of Architectural Scale in China"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
p 26

Abstract: Not given.

C-O-N-F-I-D-E-N-T-I-A-L

WU Tsung-to (0702/1350/6995)

"The Designs of Multi-Purpose Halls Abroad"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
pp 27-28

Abstract: Not given.

YANG Hun (2799/5366)

"On Stage Design"

Peiping, Chien-chu Hsueh-pao (Journal of Architecture), No 4, Apr 63,  
pp 29-35

Abstract: Not given.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

T'ANG Li-min (0781/4539/3046)  
SUN Huan-oh'un (1327/3562/4783)

"Three-Dimensional Elasticity Problems Solved By Complex Variable Method"

Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1627-1649

Excerpts from English abstract: This paper presents two methods of complex variables for the solution of three-dimensional problems of elasticity. The first method is to transform P. F. Papkovich's general solution of elasticity by introducing complex variables and a mapping function into an integral equation. The second method is to transform directly Navier's general equations of elasticity into two simultaneous integral equations. Three examples are given for illustration.

References: Date span of the 8 references (4 Chinese and 4 Russian) is 1939-1962. The Russian include: Prostranstvennyye Zadachi Teorii Uprugosti (Space Problems on the Theory of Elasticity) by A. I. Lur'ye, Moscow, 1955, Gostekhizdat (State Publishing House of Theoretical and Technical Literature), and Nekotoryye Osnovnyye Zadachi Matematicheskoy Teorii Uprugosti (Some Basic Problems on the Mathematical Theory of Elasticity) by N. I. Muskhelishvili, AN-SSSR /Academy of Sciences USSR/, Publication 4, 1954.

(continued)

This paper was first published in Chinese in Transactions of Dairen Engineering College, Vol 29, No 1, 1962, and revised in 1963.

Authors' Affiliation: Dairen Engineering College.

C-O-N-F-I-D-E-N-T-I-A-L

Chemistry, Mathematics, and Physics

SU Ch'ang-huo (1372/2490/0624)

"Correction Functions for Measuring the Specific Resistance of a Square Sample of a Semi-Conductor By the Four-Probe Method"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 6, Jun 63, pp 370-383

Translation of Russian Abstract: Theoretical analysis is the basis for deriving general terms for correction functions on the specific resistance of a semi-conductor, measured on a square sample by the four-probe method. These terms, which simultaneously consider the effect of three limited geometrical sizes of the sample on the results of the measurement may be used as formulas to compute the correction coefficients. Tables are given showing the values of the various correction functions. It is noted that accurate selection of the correction factor is also necessary in order to reduce the errors in measurement, as well as to improve the specific conditions relating to the accuracy of the apparatus and the correction technique.

This paper was received for publication on 2 July 1962.

TS'ENG Chin-yen (2582/6210/6056)

TAN Ch'i-che (0830/0796/5832)

CH'EN Nan-hsien (7115/7181/0341)

"The Superfluidity Effects in Light Nuclei"

Peiping, Wu-li Hsueh-pao, (Acta Physica Sinica), Vol 19, No 6, Jun 63, pp 360-369

Abstract: English abstract accompanies this article.

The authors express thanks to Prof TANG Li-ming (2799/4539/6900) for the discussions they had with him during this work.

This paper was received for publication on 9 May 1962.

Authors' Affiliation: All of Department of Physics, Peking University.

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Kuang-ming (3088/0342/6900)  
KAO P'ien-ming (7449/1131/2494)  
MAO Ching-huai (5403/4842/2037)

"An Analysis of Fundamental and Sub-harmonic Pumping Parametric Amplifiers"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 6, Jun 63,  
pp 384-397

Abstract: English abstract accompanies this article.

This paper was received for publication on 22 October 1962.

CH'EN Shih (7115/2514)  
TAI Yuan-pen (2071/0337/2609)

"N-N Scattering at 4 BeV. Laboratory Energy"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 6, Jun 63,  
pp 398-403

Abstract: English abstract accompanies this article.

The authors express thanks to CHEN Hung-yuan (2612/3163/0337) for his many suggestions.

This paper was received for publication on 1 November 1962.

Authors' Affiliation: Both of Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

HOU Po-yu (0186/0130/1342)

"The Spinor Wave Functions and Operators in the Local Coordinate System"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 6, Jun 63,  
pp 341-359

Abstract: English abstract accompanies this article.

This paper was received for publication on 14 August 1961; the final draft of this paper was received on 21 July 1962.

Author's Affiliation: Sian Mine Engineering College.

CH' IEN Ching-jen (6929/2529/0088)

"Contribution to the Coupled Wave Theory"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 6, Jun 63,  
pp 404-406

Abstract: Not given.

This paper was received for publication on 24 July 1962.

C-O-N-F-I-D-E-N-T-I-A-L

TUNG T'ai-kan (5516/1132/0051)

"A New Spectograph of the Electronic Paramagnetic Resonance"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 6, Jun 63,  
pp 407-408

Abstract: Not given.

This paper was received for publication on 8 January 1963; a final draft of this paper was received on 18 February 1963.

Author's Affiliation: Radio Department, Peking University.

CH'ENG Chung-chih (2052/4191/1807)  
HUA Chun-cheng (5478/6874/2973)

"Analysis of Phase and Gain Characteristics of Travelling-Wave Type Negative-Resistance Amplifiers"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 7, Jul 63,  
pp 425-441

Abstract: The advances of solid state negative-resistance devices, such as tunnel diodes, variable reactance semi-conductor diodes used in parametric forms, lead to the interests of the study of periodically loaded travelling type distributed amplifiers. This paper gives a detailed analysis on the transmission characteristics of this type of micro-wave amplifier. The analysis includes the study of the phase equation, gain equation, the frequency-phase characteristics, the pass band vs stop band relationships and the phase velocity and group velocity characteristics. A detailed analysis on the travelling-wave type semi-conductor diode parametric amplifier is also given. Important universal curves and design conditions are also included for ready references.

This paper was received for publication on 25 April 1962.

C-O-N-F-I-D-E-N-T-I-A-L

CHOU Chieh-hsiang (0719/0094/3276)

"F Functions and the Possibility of Their Application in Crystal Structure Analysis"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 7, Jul 63,  
pp 442-447

Translation of Russian Abstract: Two new functions are proposed:

$$I \\ F_{H_0} = \int_V p(r) p(r+u) \exp 2\pi i (H_0 \cdot r) dv,$$

$$II \\ F_{H_0} = \int_V p(r) p(r+u) \exp 2\pi i [H_0 \cdot (2r+u)] dv$$

for the purpose of explaining the possibility of improving the Patterson function method. The article presents a detailed discussion of the basic properties of the new functions and possible procedures for this application in crystal structure analysis.

The author expresses thanks to YEN Tung-sheng (0917/2639/3932), T'ANG Yu-ch'i (0781/2589/4388), LU Chia-hsi (4151/0857/6932), LU Hsueh-shan (7120/1331/0810), and others for their letters of encouragement and their corrections; to CHU Yu-chen (2612/5940/6297) and other faculty members of

(continued)

the Crystalline Chemistry Sub-section, Physical Chemistry Section, Chemistry Department, Fudan University, and for the interest of classmates of the Science Department, Fudan University.

This paper was received for publication on 12 May 1962; the final draft was received for publication on 27 July 1962.

Author's Affiliation: Chemistry Department, Fudan University.

C-O-N-F-I-D-E-N-T-I-A-L

T'AN Wei-han (6223/4850/5060)

"Calculation of the Energy Levels and the Splittings of the Sharp Lines in the Absorption Spectrum of Ruby"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 7, Jul 63, pp 409-423

Abstract: English abstract accompanies this article.

The author expresses thanks to LI Yin-yuan (2621/5593/6678) for his many valuable opinions and great help in the work.

This paper was received for publication on 15 March 1962; the first revised draft was received on 27 July 1962, and the second and final draft was received on 27 February 1963.

Author's Affiliation: Chinese Academy of Sciences

T'ANG P'u-shan (0781/3877/1472)  
HO Ming-shia (6320/2494/7209)  
CH'EN Tso-yu (7115/0146/4416)  
WANG Ch'u (3769/2806)

"The Diffusion Length of Minority Carriers in N-Tuple Silicon Measured With a Surface Barrier Detector"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 7, Jul 63, pp 448-455

Abstract: English abstract accompanies this article.

The authors express thanks to the workers in the Physics Experimental Section where part of this work was carried out.

This paper was received for publication on 6 August 1962.

Authors' Affiliation: All of Department of Physics, Fudan University; HO, CH'EN, WANG were graduated in 1962.

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Shih-kang (7115/1709/0474)

"The Theory of Linear Transport Coefficients In Quantum Statistics"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 7, Jul 63,  
pp 456-465

Abstract: English abstract accompanies this article.

The author expresses thanks to HUO Yu-p'ing (7202/5940/1627) for his discussions and corrections.

This paper was received for publication on 29 October 1962.

FAN Hai-fu (5400/3189/4395)  
CHANG Jung-ying (1728/2837/5391)  
CHAO Kuo-chun (6392/0948/0193)

"The Crystal Structure of Hwanghoite (Huang-he-kuang)"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 7, Jul 63,  
pp 466-471

Abstract: English abstract accompanies this article.

The authors express thanks to Prof T'ANG Yu-ch'i (0781/2589/4388), Peking University, under whose guidance this paper was done; to Institute of Geology, Chinese Academy of Sciences, for its offering of the specimens.

This paper was received for publication on 9 January 1963.

C-O-N-F-I-D-E-N-T-I-A-L

LIN Wei-kan (2651/3634/1626)

"Number of Propagating Modes In a Large Waveguide"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 7, Jul 63,  
pp 472-474

Abstract: Not given.

This paper was received for publication on 29 May 1962; final draft was received on 1 February 1963.

FENG Tuan (7458/4551)

MIN Nai-pen (7036/0035/2609)

LI Ch'i (2621/7871)

"Dislocation Lines and Networks In Molybdenum Crystals As Revealed By Etching"

Peiping, Wu-li Hsueh-pao (Acta Physica Sinica), Vol 19, No 7, Jul 63,  
pp 475-476

Abstract: Not given.

This paper was received for publication on 11 April 1963.

Authors' Affiliation: All of Department of Physics, Nanking University.

C-O-N-F-I-D-E-N-T-I-A-L

LU Chien-k'o (6424/6015/0668)

"The Periodic Riemann Boundary Problem and Its Applications to the Theory of Elasticity"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3, Aug 63, pp 343-388

Excerpts of Chinese Abstract: From a practical point of view, periodic boundary problems will become more important, and have some applications in fluid mechanics. The first part of this paper studies single periodic Riemann boundary problems, with particular attention to the supplementary requirements for solution at infinity. The second part of the paper studies the application of single periodic Riemann boundary problems to elastic plane problems.

References: Of 12 references dated 1939-1961, 11 are in Russian and 1 in English.

This paper was received for publication on 29 May 1962.

Author's Affiliation: Wuhan University.

CH'EN Wen-yuan (7115/2429/1472/0626)

"The Index of Solutions of Nonlinear Equations in Banach Space"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3, Aug 63, pp 315-322

Abstract: Not given.

This paper was received for publication on 11 November 1961; a revised manuscript was received on 20 July 1962.

Author's Affiliation: Mathematical Mechanics Department, Lanchow University.

C-O-N-F-I-D-E-N-T-I-A-L

KUNG Sheng (7895/2573)

"Fourier Analysis on Unitary Groups: IV. On Peter-Weyl Theorem"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3,  
Aug 63, pp 323-331

Abstract: Not given.

This paper was received for publication on 3 February 1962; a revised  
manuscript was received on 30 October 1962.

Author's Affiliation: China University of Science and Technology.

CH'EN Liang-chin (7115/5328/0513)

"A Boundary Value Problem for the Degenerate Elliptic Equation"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3,  
Aug 63, pp 332-342

Abstract: Not given.

The author dedicates this work to the 70th birthday of Prof CH'EN  
Chien-kung (7115/1696/0501).

This paper was received for publication on 21 May 1962; a revised  
manuscript was received on 10 August 1962.

Author's Affiliation: Chekiang University.

C-O-N-F-I-D-E-N-T-I-A-L

LAI Wan-ts'ai (6351/5502/2088)

"On Starlike Typically-Real Functions"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3,  
Aug 63, pp 389-404

Abstract: Not given.

This paper was received for publication on 4 June 1962; a revised manuscript was received on 10 December 1962.

Author's Affiliation: Overseas Chinese University.

SHEN Hsieh-ch'ang (3088/3610/2490)

"On the Closure of  $[z^{T_n} \log^j z]$  in the Domain of the Complex Plane"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3,  
Aug 63, pp 405-418

Abstract: Not given.

The author extends thanks to Prof A. F. Leontev for his guidance in this work.

This paper was received for publication on 16 June 1962; a revised manuscript was received on 12 October 1962.

Author's Affiliation: Peking University.

C-O-N-F-I-D-E-N-T-I-A-L

HSU I-ch'ao (6079/0110/6389)

"On the Groups of Analytic Homomorphism of the Bounded Positive (m, p) Circular Domains in Two Complex Variables Space"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3, Aug 63, pp 419-432

Abstract: Not given.

References: Of the six references dated 1930-1935, five are in French and one in German.

This paper was received for publication on 21 June 1962; a revised manuscript was received on 12 October 1962.

Author's Affiliation: Institute of Mathematics, Chinese Academy of Sciences.

TANG Sung-shih (7825/6139/6108)

"On the Imbedding Theorems of a Class of Functional Spaces"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3, Aug 63, pp 433-440

Abstract: Not given.

This paper was received for publication on 26 June 1962.

Author's Affiliation: Peking College of Geodesy and Cartography.

C-O-N-F-I-D-E-N-T-I-A-L

CH'ENG Nai-tung (4453/0035/2767)

"On the Constructive Properties of a Class of Almost-Periodic Functions"

Peiping, Shu-hsieh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3,  
Aug 63, pp 441-446

Abstract: Not given.

This paper was received for publication on 30 July 1962.

Author's Affiliation: Ho-fei Industrial University.

HO Ch'eng-ch'i (0149/2052/1142)

"Compactness and Quasiconformal Mappings"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3,  
Aug 63, pp 447-453

Abstract: Not given.

The author dedicates this work to the 70th birthday of Prof CH'EN  
Chien-kung (7115/1696/0501).

This paper was received for publication on 3 August 1962; a revised  
manuscript was received on 3 January 1963.

Author's Affiliation: Fudan University.

C-O-N-F-I-D-E-N-T-I-A-L

LI Chung (2621/1813)

"On the Existence of Homeomorphic Solutions of a System of Quasi-linear Partial Differential Equations of Elliptic Types"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3, Aug 63, pp 454-461

Abstract: Not given.

This paper was received for publication on 6 August 1962.

Author's Affiliation: Peking University.

SHEN Hsin-yao (3088/0207/5069)

"The Natural Systems In the Homotopy Types of  $A^2_n$ -Polyhedra"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3, Aug 63, pp 462-470

Abstract: Not given.

This paper was received for publication on 18 August 1962.

Author's Affiliation: Institute of Mathematics, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L

YU Chia-jung (0151/1367/2837)

"On Borel's Lines of the Entire Functions Defined by Laplace-Stieltjes Transforms"

Peiping, Shu-hsueh Hsueh-pao (Acta Mathematica Sinica), Vol 13, No 3, Aug 63, pp 471-484

Abstract: Not given.

This paper was received for publication on 7 September 1962.

Author's Affiliation: Wuhan University.

C-O-N-F-I-D-E-N-T-I-A-L

WU Shu-ch'iu (0702/1859/3061)  
LIN Yun-ch'ing (2651/0061/7230)  
MA En-ch'un (7456/1869/5028)

"An Investigation of the Kinetic Equation of Polyesterification"

Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1679-1686

Text of English Summary: T'ANG's kinetic equation of polyesterification is discussed here. In view of the fact that the medium effect on the ionization of weak acid is significant, it is considered that the value  $K_a$  for COOH in the polyesterification system might be a function of the extent of reaction. This consideration is verified experimentally by estimating  $K_a$  from measurements of the conductivity of the reaction system. Therefore, it is not legitimate to put  $[H^+] = K_a^{1/2} C^{1/2}$  in the derivation of kinetic equation according to T'ANG's mechanism, and thus the 2 1/2 order equation obtained actually does not agree with its mechanism. Moreover, as the ionization of COOH is extremely small when the extent of reaction is sufficiently high, it is doubtful to suggest that  $H^+$  is the catalyzing species for the whole course of polyesterification reaction.

References: The works of T'ANG Ao-ch'ing (0781/2407/1987) mentioned in the text include those published in Hua-hsueh Hsueh-pao (Acta Chimica Sinica), Vol 25, No 1, 1959, p 219; and Science Record, No 1, 1957, page 243; which were coauthored with YUEH Kuo-ts'ui (1471/0948/4733) et al.

This paper was received for publication on 22 April 1963.

Author's Affiliation: All of Department of Chemistry, Nankai University.

C-O-N-F-I-D-E-N-T-I-A-L

LI Te-yuan (2621/1795/0337)

"On the Uniqueness of the Solution of the Cauchy Problem for Parabolic Equations"

Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1609-1625

Abstract of Russian Article: This paper develops two aspects of the problem on the uniqueness of the solution of the Cauchy problem: (1) for a linear parabolic equation, including the proof for each of four theorems; and (2) for a quasilinear parabolic equation, including one lemma and the proof of Theorems 5 and 6.

References: The 3 references include 2 in Russian by this author and one English; date span is 1958-1963.

This paper was received for publication on 14 December 1961. The principal results of this work were published without the proof in Doklady Akademii Nauk SSSR, Vol 129, No 5, 1959.

C-O-N-F-I-D-E-N-T-I-A-L

KUAN Chi-wen (4619/4764/2429)

"On the Structure of Multiplicative Groups of Discretely Valued Complete Fields"

Peiping, Scientia Sinica, Vol 12, No 8, Aug 63, pp 1079-1103

Abstract of English Article: This paper investigates the structure problem for the multiplicative groups of complete fields having a discrete valuation. The problem was previously studied by K. Hensel and H. Hasse, and the results obtained are restricted to the cases of finite residue class field. In his Zahlentheorie, Hasse has actually given a part of the general facts. However, this part of the results seems to be incapable of rendering clear insight into the structure of general multiplicative groups. The author cites a general statement in this book which appears to be not quite correct. This paper presents a counter example illustrating this point. The author gives a precise statement about the structure theory of general multiplicative groups, and completely solves the structure problem.

(continued)

The author expresses thanks to Prof S. H. WANG for introducing him to this field of research and for very valuable suggestions.

References: There are 10 references: one Chinese, one Russian, 6 German, and 2 English; the date span is 1916-1956.

This paper was first published in Chinese in Acta Scientiarum Naturalium, Kirin University, No 2, 1956, pp 123-151.

Author's Affiliation: Kirin University.

C-O-N-F-I-D-E-N-T-I-A-L

SHEN Kuang-ming (3088/0342/6900)

"Synthesis of Nondegenerative Parametric Amplifiers Based on Optimum Noise Performance"

Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1651-1662

Text of English Abstract: The effective noise figure of a nondegenerative parametric amplifier, loaded with a noisy second stage, is derived and expressed in terms of the coupling factor and the normalized negative conductance. The optimization of the effective noise figure of the system is then discussed in detail. The gain of the amplifier is also given in terms of the coupling factor and the normalized effective noise figure is thus found. An upper limit of the bandwidth of the amplifier is established in view of the optimum noise performance. Finally, a method of synthesis is suggested with numerical illustrations.

The author expresses indebtedness to Prof MA Ta-yu for his valuable suggestions in writing this paper.

References: One of the two English references is by K. Kotzebue and is entitled, "Optimum Noise Performance of Parametric Amplifiers," in Proceedings IRE, No 48, 1960, pp 1324-1325. The other reference is by the author of this paper, dated 1963.

This paper was received for publication on 18 June 1963.

Author's Affiliation: Institute of Electronics, Chinese Academy of Sciences.

C-O-N-F-I-D-E-N-T-I-A-L  
ORGANIZATIONS AND CONFERENCES

1. National Conference on Weather Forecasting

The Central Weather Bureau from 8 to 18 April 1963 held a Symposium on Reforms in Weather Forecasting in Peiping. The meetings were attended by engineers, technicians, and administrative personnel from all provincial, municipal, and autonomous area weather bureaus all over the country.

During the first six days the delegates shared their experiences in the use of new methods for weather forecasting in their respective areas. During the last three days the delegates met in group sessions and discussed the following among other problems: Are the present formulas for synoptic processes suitable for medium-range forecasting in China? How to treat the inter-relationships of modes of circulation, meteorological systems, and weather phenomena. Can weather stations on the lower administrative levels handle medium-range forecasting? How to coordinate the work of large-, medium-, and small-scale weather observatories and stations. (Peiping, Ch'i hsiang Hsueh-pao [Acta Meteorologica Sinica], Vol 33, No 3, Aug 63, p 410)

2. National Conference On Forest Meteorology

The National Scientific Conference on Forest Meteorology was held in Mukden on 22-26 April 1963 under the sponsorship of the Chinese Meteorological Society in collaboration with the Institute of Forestry and Meteorological Society. More than 60 delegates attended. Among them were specialists in forestry, meteorology, geophysics, electrical engineering, and mathematics from 30 colleges, universities, and research institutes throughout the country.

The conference received numerous scientific papers in the following categories: The effect of forests on water budgets off the surface of waters and the microclimatology of forests; achievements in the meteorology of protective forests and weather conditions; forest fires and weather conditions; and instrumentation in forest meteorology. Thirty-two papers were read and discussed.

The purpose of the conference was to review Chinese research achievements and forest meteorology since 1959. (Feiping, Ch'i-hsiang Hseuh-pao [Acta Meteorologica Sinica], Vol 33, No 3, Aug 63, p 410)

3. Annual Oceanography and Limnology Conference

At the recent Chinese Oceanography and Limnology Conference held in Wuhan, more than 310 out of the 350-odd persons who submitted papers were young scientific workers trained since the liberation. (Canton, Chung-kuo Hsin-wen, 25 Oct 63, p 4)

4. Chinese Pedology Society Holds 1963 Meeting

Pedologists from all over China are carrying out many aspects of research in regards to important questions pertinent to pedology. Recently they held the 1963 annual meeting and submitted more than 270 papers. This conference was held in Shenyang. More than 90 official delegates and more than 200 other personnel from pedology institutions all over the country attended this conference. Pedologist LI Ch'ing-k'uei (2621/1987/6652) was again elected chairman of board of directors. (Peiping, Chin-jih Hsin-wen, 8 Oct 63, p 6)

5. Crystallogical Conference

YANG Feng-chun and V. A. Mokiyeveskiy of the Leningrad Mining Institute coauthored a report, "On the Inclusion of Ore Minerals in Calcite," which was read at the 21 April 1961 session of the crystallogical conference series sponsored by the Fedorov Crystallogical Circle was subsequently published in the periodical, Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva /Notes of the All-Union Mineralogical Society/, Vol 90, No 5, 1961, pp 510-520.

Nine such conferences were held during 1961-1962, and a total of 18 reports were read. (Moscow, Vestnik Leningradskogo Universiteta, No 18, Seriya Geologii i Geografii, No 3, 25 Sep 63, pp 174-175)

6. Symposium on Deep Drilling Operations

In late July 1963 the Ministry of Geology held a symposium at the Liaoning Bureau of Geology, especially to discuss the problems of mechanizing the engineering work in deep well drilling. Attending this meeting were representatives from the Ministry of Building, geological schools, as well as mining engineers and test drillers from the various geological bureaus (offices) of the provinces.

Assisted by the Academy of Survey and Designing (K'an-ch'a-chi-shu-yen-chiu-she-chi-yuan) of the Ministry of Building, the Liaoning Bureau of Geology introduced, tested and trial-produced a new type of "ning-kuan" [rotating drill] which the bureau claimed to be better in many respects to any previous one used.

This bureau of geology also put on display a "shou-lun-kei-chin-ch'i" [hand-wheel feed mechanism], a "tou-kan-ch'i" [reverse leverage arm mechanism] and four types of "pai-kuan-hu-kuan-chuang-chih" [twist-drill with spindle shaft assembly.]

(continued)

At the conclusion of this meeting, all representatives agreed that their new revolutionary objective is to improve the quality of engineering work, speed up work projects, mechanize the lifts at construction sites, introduce standards for semi-automation, and finally to step up preparation for supporting work projects besides economize on the use of raw materials. (Peiping, Chung-kuo Ti-chih [Chinese Geology], No 8, 10 Aug 63, p 21) (CONFIDENTIAL)

7. Experimental Zoology Symposium

A national experimental zoology symposium, sponsored by the Chinese Zoological Society, was held recently in Shanghai. It was attended by scientific workers from 24 provinces, cities and autonomous regions. Among those present were HSUEH She-p'u (5641/4357/2528), assistant research fellow at the Institute of Experimental Medicine, Chinese Academy of Medical Sciences and noted biology specialists T'UNG Ti-chou (4547/4574/0719), PEI Shih-chang (6296/2514/3864) LI Ju-ch'i (2621/3067/4388), CHUANG Hsiao-hui (5445/1321/1920) and T'AN Chia-chen (6151/1367/2823).

A total of 229 papers were submitted dealing with aspects of experimental zoology such as cytogenetics, radio biology, cytology, experimental embryology and protozoology. (Peiping, Kuang-ming Jih-pao, 7 Nov 63, p 1)

8. Chinese Animal Husbandry and Veterinary Medicine Conference

The Chinese Animal Husbandry and Veterinary Medicine Society recently held its 1963 academic conference in Urumchi. Coming from all over the country were 218 specialists, professors, and scientific Chin-jih Hsin-wen, 8 Oct 63, p 7)

C-O-N-F-I-D-E-N-T-I-A-L

9. Meeting on Wheat Rust

A national research meeting on wheat rust and the propagation of rust-resistant varieties was recently held in Peiping. Participants discussed the development of agricultural science techniques over the past ten years. (Peiping, Jen-ming Jih-pao, 5 Nov 63, p 5)

10. Nationwide Tuberculosis Conference Held

The 1963 Nationwide scientific conference on tuberculosis was held in Shanghai from 27 May to 3 June 1963. A total of 422 papers were received from all over the country. Published papers from this conference were compositions on aspects of chemical treatment of tuberculosis. (Peiping, Chung-kuo Fang-lao Tsa-chih [Chinese Journal of Tuberculosis Prevention], Vol 4, No 2, 30 Jun 63, p 121) (CONFIDENTIAL)

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

11. Chekiang Province Holds Tuberculosis Conference

The Hangchow Branch of the Chinese Tuberculosis Society and the Tuberculosis Society of the Chekiang Medical Association held the joint 1962 annual meeting from 28 to 30 April 1963. One hundred and sixty-two representatives participated in the conference. In addition to reading papers in special problem seminars, they also heard special reports by Prof WU Shao-ch'ing (0702/4801/7230) and Prof CH' IEN Mu-han (6929/1970/7281). Afterwards the tuberculosis society had an election. There were a total of 35 papers submitted of which 12 were read at the meeting. (Peiping, Chung-kuo Fang-lao Tsa-chih [Chinese Journal of Tuberculosis Prevention], Vol 4, No 2, 30 Jun 63; p 114). (CONFIDENTIAL)

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L  
MANPOWER AND EDUCATION

1. Peking Petroleum College Trains Technicians

In the past ten years, the Peking Petroleum College, China's first petroleum industries college, has trained almost 6,000 graduates. Of these, almost 3,000 are petroleum geologists and production technicians. These young technicians were organized with old workers into exploration teams, drilling teams, and exploitation teams. They have discovered many new oil and natural gas fields throughout China. (Peiping, Kuang-ming Jih-pao, 4 Nov 63, p 1)

2. College Adopts Work Area Teaching Methods

Since the fall of 1958, the Wuhan Water Conservancy and Electric Power College has sent 19 groups of students in specified classes, a total of more than 2,000 students, to study at the site of the Tan Chiang water conservancy project for periods of two months to half a year. Each semester, the Hydraulic Engineering Construction Department and the Water Conservancy Engineering Operations Department of this college organize a group of upper-class students to visit this teaching area. In addition to the benefits of working closely with a practical project, both students and teachers have collected data and written more than 20 kinds of supplementary teaching materials totaling over 400,000 words. (Peiping, Kuang-ming Jih-pao, 19 Oct 63, p 2)

3. Higher Education in Shanghai

Since 1958, the city of Shanghai, with the total current population of more than 9 million including its suburbs, has added 7 higher schools of education such as the Shanghai University of Science and Technology. The number of graduates from these schools since then has been increasing each year. This year [1963], they numbered 14,000, which represented the highest number to date. (Canton, Chung-kuo Hsin-wen, 18 Oct 63, p 6)

4. Ningsia Technicians

More than 330 Moslem technicians of the Ningsia Hui Autonomous Region are now working in the fields of agriculture, industry, communications, post and telegraph, medicine and scientific research. Most of these technicians were trained since the liberation. (Peiping, Kuang-ming Jih-pao, 25 Oct 63, p 1)

5. Medical Graduates in Tsinghai Province

The first group of medical graduates in Tsinghai Province graduated in September 1963 after four years of study and one year of practical training. Most of these 168 graduates will go to work in basic medical and health units in the province. (Peiping, Kuang-ming Jih-pao, 25 Oct 63, p 2)

6. Minority Students In Kansu Province

The number of minority students in higher level schools in Kansu Province has increased 32 times compared with the number of such students in 1949. There are now six higher-level schools in the province as compared with two in the early liberation period. There are now over 300 students at Northwest Nationalities College including such nationalities as Yu-ku, Salars, Tunghsieng, Pao-an, Kirghiz, Tatars and Sibo. Since its establishment, this college has graduated over 1,100 students of which over 130 were graduated in the past two years. There are now about 100 minority students at Kansu Teacher's University including such nationalities as Tibetans, Meng, Yao, Na-hsi, Chuang and Moslems. (Peiping, Kuang-ming Jih-pao, 23 Oct 63, p 1)

C-O-N-F-I-D-E-N-T-I-A-L

7. Nationalities in Yunnan Colleges

There are over 1,200 college students of 17 nationalities in six high level institutions in Yunnan Province. Of these 17 nationalities, such nationalities as Thai, Whites, National Minorities, Na-hsi, La-hu, Nu, and Wa are included. When these high level institutions take admissions, they all give priority to the minority nationalities and after admitting them they also send guidance teachers to care and help them. In regards to students with individual basic differences, the school appoints teachers to join them to guide and give them supplementary instruction in basic courses of instruction. According to estimates, in the 11 years from 1952 to 1963 the government has spent over 14,000,000 yuan in aiding the education of students of the minority districts. (Peiping, Jen-min Jih-pao, 6 Nov 63, p 2)

C-O-N-F-I-D-E-N-T-I-A-L  
NEW PUBLICATIONS AND BOOK REVIEWS

1. New Book on Dynamic Meteorology

Tung-li Ch'i-hsiang-hsueh Lun-wen-chi, II (Collected Papers on Dynamic Meteorology, Book II), edited by YEH Tu-cheng (0673/4648/2973), was recently published by Science Press, Peiping. The book contains seven research papers concerning the use of numerical methods in the study of the development of occlusions. (Peiping, Ch'i-hsaing Hsueh-pao [Acta Meteorologica Sinica] Vol 33, No 3, Aug 63, back cover)

2. New Book On China's Petroleum

Chung-kuo Shih-yu Ch'ing Mu-fen ti Tsu-ch'eng (The Composition of Light Fractions in China's Petroleum) by CHANG Ming-nan (1728/2494/-0589), CH'EN Ju-hsi (7115/3067/3556), HSU Wen-chun (1776/2429/0193), and YANG Chen-tzu (2799/2182/1316) was published in December 1962. (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, p 65)

3. Publication of New Scientific Books

The Science Press has announced the publication of the following new books during the month of September 1963:

Shu-chih Chi-fen Chi Ch'i Ying-yung (Numerical Integrals and Their Applications), by HUA Lo-keng (5478/5012/1649) and WANG Yuan (3769/0337).

I-chiu-liu-ssu Nien T'ien-wen Nien-li (An Astronomical Calendar for 1964), prepared by the Purple Mountain Observatory of the Chinese Academy of Sciences.

Chung-kuo K'o-hsueh-yuan Ying-yung Hua-hsueh Yen-chiu-so Chi-k'an (Collected Documents of the Institute of Applied Chemistry, Chinese Academy of Sciences), No 8, prepared by the Collections Editorial Committee, Institute of Applied Chemistry, Chinese Academy of Sciences.

Tr-li Chi-k'an (Collected Documents on Geography), No 5, Geomorphology, prepared by the Institute of Geography, Chinese Academy of Sciences.

(continued)

Chia Lin K'uang-chuang Yen-chiu (Research On Potassium and Phosphorous Deposits), by YUAN Chien-ch'i (5913/6015/7871), HSIEH Chia-jung (6200/1367/2837), and YEH Lien-chun (2814/6647/0193).

T'ien-tzu Mo-ssu Chi-suan Chuang-chih Chi Ch'i Ying-yung (Electronic Analog Computers and Their Applications), compiled by CHU P'ei-chi (2612/1014/1015). (Peiping, Jen-min Jih-pao, 26 Oct 63, p 6)

4. Shanghai Publishers Announce New Books

The following books are among those announced by the Shanghai Scientific and Technical Publishers for publication during the month of December 1963:

Shang-hai Shih Tien-chi Kung-ch'eng Hsueh-hui 1962 Nien Lun-wen Hsuan-chi (Collected Papers of the Shanghai Municipal Electrical Engineering Society for 1962), edited by the Shanghai Municipal Electrical Engineering Society.

Chieh-pi Ho Chieh-ling (Ground Contact and Zero Contact), by CHANG Ch'ang-tung (4545/7022/2639) et al.

Chin-shu-hsueh Yuan-li (Principles of the Study of Metals), edited by HSU Tsu-yao (1776/4371/5069). (Peiping, Jen-min Jih-pao, 21 Oct 63, p 4)

5. Stratigraphic Publications

The following publications were briefly commented upon on the last page of the source cited below:

Chung-kuo Te Chu-lo-hsi Ho Pai-o-hsi (China's Jurassic and Cretaceous Systems) by KU Chih-wei (7357/4249/1792);

Chung-kuo Chung-sheng-tai Lu-hsiang Ti-ts'eng (China's Mesozoic and Land Facial Strata), by SSU Hsing-chien (2448/5887/0256) and CHOU Chih-yen (0719/1807/3508);

Chung-kuo Te Hsin-shih-chieh (China's New World), by P'ei Wen-chung (5952/2429/0022), CHOU Ming-chen (0719/2494/6966) and CHENG Chia-chien (6774/1367/1017); and

Chung-kuo Wan-ku-sheng-tai Lu-hsian Ti-ts'eng (China's Late Palaeozoic Land Facial Strata), by LI Hsing-hsueh (2621/2502/1331), edited by the All-China Committee on Stratigraphy (Peiping, Ti-chih Hsueh-pao [Acta Geologica Sinica], Vol 43, No 3, Aug 63, p 318)

6. Publication on Mining

The following publications were briefly commented upon on the last page of the source cited below:

Chia-lin Kuang-ch'uang Yen-chiu (Research on Potassium Phosphate Ore Deposits), by YUAN Chien-chi (5193/6015/7871), et al; and

Kuang-ch'uang Fen-lei Yu Cheng-kuang Tso-yung (Classification of Ore Deposits and Its Use in the Study of Minerogenesis), by Meng Hsien-min (1322/2009/3046), et al; published by Ko-hsueh Chu-pan-she (Science Press). (Peiping, Ti-chih Hsueh-pao [Acta Geologica Sinica], Vol 43, No 3, Aug 63, p 318)

C-O-N-F-I-D-E-N-T-I-A-L  
FOREIGN TRAVELS AND CONTACTS

1. Chinese Scientific and Technological Delegation Arrives in Geneva

A Chinese scientific and technological delegation under the leadership of CH'ENG Chao-kan (4453/3564/1631), Vice Minister of Agriculture, on the afternoon of 22 October 1963, arrived by plane in Geneva. The delegation, according to the Chinese-Cuba scientific and technological agreement is going to Cuba to discuss and sign the 1963 Chinese-Cuban scientific and technological cooperation agreement. (Peiping, Jen-min Jih-pao, 28 Oct 63, p 4)

2. Korean Scientists Arrive in Peiping

A group of 14 Korean semiconductor specialists arrived in Peiping by train on 7 November 1963 for a visit, in accordance with the provisions of the 1963 cooperation plan of the Chinese and Korean academies of sciences. The group was led by Chon Tu-kwan, vice-president of the Korean Academy of Sciences. The visitors were greeted at the train station by CHANG Chin-fu (1728/0517/1133), vice-president of the Chinese Academy of Sciences, and LIU Tsai-sheng (0491/9375/3932), director of the Institute of Semiconductors. (Peiping, Jen-min Jih-pao, 8 Nov 63, p 4)

3. Architectural Delegation Visits Brazil

The Chinese Architectural delegation consisting of 8 persons under the leadership of YANG T'ing-pao (2799/1694/1405) assisted by LIU Chien-chang (0491/1696/4545) and LIANG Szu-ch'eng (2733/1835/2052), arrived in Rio de Janeiro by plane from Mexico.

The delegation is visiting Brazil at the invitation of the Brazil Architectural Society. Previous to arriving here, [Brazil] the delegation had been in Havana and Mexico City, participating in the Seventh Plenary Meeting and the Eight Deligatory Conference of the International Architectural Association. (Peiping, Jen-min Jih-pao, 23 Oct 63, p 3)

4. Foreign Medical Delegations

At a banquet on 4 October 1963, WANG Yu-hsien (3769/5124/0341), president of the Shanghai Branch of the Chinese Medical Association, entertained the medical delegations from Burma, Indonesia, Japan, Mongolia, Nepal, and Pakistan. Shanghai vice mayor CHIN Chun-hua (6855/0112/5478) was present. After attending the 8th National Congress on Surgery of the Chinese Medical Association in Peiping, the delegations left for Shanghai for a visit on 2-4 October. (Peiping, Chin-jih Hsin-wen, 7 Oct 63, p 2)

C-O-N-F-I-D-E-N-T-I-A-L

5. Italian Surgeon

At the invitation of the Chinese Medical Association, Prof Dogliotti, Italian specialist in heart surgery, arrived in Peiping by air on 4 October 1963 for a visit. (Peiping, Chin-jih Hsin-wen, 7 Oct 63, p 8)

C-O-N-F-I-D-E-N-T-I-A-L

BIOGRAPHIC INFORMATION

CHANG Cheng-pin (1728/2974/1755)

LIU Lien-sheng (0491/5571/3932)

Coauthors of an article, "A General Mathematical Method for Calculating Stability Constants of Mononuclear Complexes at Various Levels." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 2, Feb 63, pp 9-21)

CHANG Ching-lueh (1728/2529/3970); author of an article, "Studies on the Saline Soil Characteristics and its Utilization and Reclamation in Yu-pei Plain." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 39-43)

CHANG (illegible)-hai (1728/-/3189); author of an article, "The Structure and Electronic Bond of Hydronitric Acid." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 58-62)

CHANG Hua-lin (1728/5478/7792)

YEN Chih-hsien (0917/1807/1720)

Coauthors of an article, "Mixed Complexes and the Measurement of Their Stability Constants." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 4, Apr 63, pp 11-17)

CHANG Jung [?]-sen (1728/2827 [?]/2773), author of an article, "Acid Reaction In Complex Titration." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 28-34)

CHANG K'o-wu (1728/0344/2976); author of an article, "The Rapid Determination of Transformation Rate of Red Vitriol Products." (Shanghai, Hua-hsueh Shih-chieh [Chemical World], Vol. 17, No 1, Jan 63, pp 36-37) (CONFIDENTIAL)

CHANG P'ei-hua (1728/0160/2901)

CHANG Chu-fen (1728/5468/5358)

YANG I-hua (2799/5065/5478)

CHAO Kuo-chun (6392/0948/6874)

Coauthors of an article, "Semi-microtechnique for Silicates and Carbonates." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 49-55)

C-O-N-F-I-D-E-N-T-I-A-L

CHANG Yen-ch'ing (1728/2518/3237); author of an article, "Discussion on Hydrocarbon Transformation Dynamics in Platforming." (Peiping, Hua-hsueh T'ung-pao, No 2, Feb 63, pp 59-64)

CHEN Ching (7115/2529); author of an article, "Mechanisms of Charge Replacement Distribution in Benzene Ring Induced by a Substituted Radical." (Peiping, Hua-hsueh T'ung-pao, [Chemistry Bulletin], No 2, Feb 63, pp 41-46)

CH'EN Chun-ming (7115/0193/2494)

CHU Hsiang-jung (2612/4161/2837)  
Both affiliated with the Institute of Metallurgy, Chinese Academy of Sciences; coauthors of the article, "The Inhibiting Effect of Arsenic on Dezincification of  $\alpha$ -Brass," in English; received for publication on 5 August 1963. (Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1764-1766)

CH'EN Han-hsi (3088/0698/3556); author of an article, "The Role of Mandelic Acid and Its Derivatives In Analytical Chemistry." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 1-8)

CH'EN Hsing-yen (7115/5281/8827); author of an article, "On Yransplanting Tea of South China to the North and From the North to the South." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 37-40)

CH'EN I-hsien, Moscow Technological Institute of the Food Industry; author of dissertation for the scientific degree of Candidate of Technical Sciences, "Crystallization Rate of Inferior-Grade Sugar," in Russian; presented on 24 April 1963. (Krasnodar, Izvestiya Vysshikh Uchebnykh Zavedeniy, Pishchевaya Tekhnologiya, No 5, 15 Oct 63, p 114)

CH'EN Jui-t'ai (7115/3843/3141)

HAN Hsiao-tung (7281/2556/2539)

CHOU Chia-p'ing (0719/0857/1627)

CHIANG Jen-chieh (1203/0088/2638)  
Coauthors of an article, "A Preliminary Investigation on the Stiphytotics of Black Shank of Tobacco." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 7-12)

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Nien-i (7115/1819/6318); author of an article, "The Partial Covalent Nature of Ionic Bonds." (Shanghai, Hua-hsueh Shih-chieh [Chemical World], Vol 17, No 1, Jan 63, pp 1-2) (CONFIDENTIAL)

CH'EN Pin-fan (7115/1755/5672)

HSU T'ing-chun (1776/1656/0971)  
Coauthors of an article, "Investigation On the Cutting Technique of Pien Tea (Four People Inhabited In the Chinese Frontiers)" (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 35-39)

CH'EN Ping-hsien (7115/0014/0752)

T'EN Te-sen (3944/1795/2773)  
Coauthors of an article, "Special Features and Contents of Ocean Navigation Charts." (Peiping, Ti-li [Geography], No 4, 1963, pp 169-172)

CH'EN Shang-chin (7115/1424/6210)

KUO Yu-te (6753/3022/1795)

CHIANG Ch'ao-she (3068/2600/0152)

CH'EN Yung-an (7115/3057/1344)

TU Fang-lin (2629/5364/2651)  
Coauthors of an article, "Studies on the Application of Phosphate Fertilizers for Yield Increase of Rice in Mound Regions and the Control of its Slow Recovery From Transplantation." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 7-12)

CHEN Yu-ch'i (3088/3768/0366); author of an article, "Blank Values and Precision Rates in Measuring Component Trace Amounts." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 2, Feb 63, pp 22-26)

C-O-N-F-I-D-E-N-T-I-A-L

CH'EN Yung-k'ang (7115/3057/1660)

CHAO Chia-ch'uan (6392/1367/0356)  
Coauthors of an article, "A Study on Control of Weeds In Paddy Fields, Heilungkiang Province With Chemical Weedicides and Their Application." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 1-6)...

CH'ENG Cheng-Ian (4453/2973/0243); author of an article, "The Influence of Kinetic Correction Regarding Ho-chin-szu's [Chinese approximation of foreign name] Constant  $k^1$ ." (Peiping, Hua-hsueh T'ung-pao, [Chemistry Bulletin], No 2, Feb 63, pp 52-54)

CHENG Chih-chen (6774/1807/3499+2973); author of an article, "A Discussion on the Cultural Practices of Raising the Yield and Fiber Quality of Jute in Chekiang Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 25-31)

CHENG Yu-lung, Moscow Institute of Steel and Alloys; coauthor with S. F. Kuz'kin and V. I. Solnyshkin of the article, "Infra-red Calcite, Scheelite, and Apatite Spectra After Mineral Treatment By Flotation Regulators," in Russian; received for publication on 18 February 1963. (Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya Metallurgiya, No 5, Sep-Oct 63, pp 28-32)

CHI Wen-fu (4472/2429/3940), member of the Committee of the Department of Philosophy and Social Sciences, Chinese Academy of Sciences, President of Cheng-chou University, Deputy Governor of Honan Province, delegate to the National People's Congress, died on 10 October 1963 at the age of 67, of a stroke. (Peiping, Chin-jih Jsin-wen, 11 Oct 63, p 1)

CHIANG Shu-nan (5592/2579/2809); author of an article, "The Control of Wheat Aphides in Szechuan Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 18-21)

CHIANG Tsu-ch'i, Department of Dynamic Geology, Moscow State University; author of the article, "Mechanism for the Formation of Tectonic Fractures (On the Example of Dagestan)," in Russian; received for publication on 26 April 1961. (Moscow, Vestnik Moskovskogo Universiteta, Seriya 4, Geologiya, No 5, Sep-Oct 63, pp 21-28)

C-O-N-F-I-D-E-N-T-I-A-L

- CH' IEN Ch'ung-shu (6929/1504/3412), member of the Biology Department, Chinese Academy of Sciences and director of the Institute of Botany, Chinese Academy of Sciences; was congratulated by KUO Mo-jo, president of CAS, at a gathering on 26 October 1963 for 50 years of scientific research and teaching. (Peiping, Jen-min Jih-pao, 27 Oct 63, p 2)
- CHIN T'ien-hai (5347/1131/3189); author of an article, "The Use of the Gradually Cooling Curve (Time-Temperature Curve) in Plotting Binary Systems." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 43-46)
- CH'IN Chieh (4440/2638)
- CH'IN Ts'an-shih (4440/3605/4258)
- P'AN Ta-lu (3382/1129/7120)  
Coauthors of an article, "A Preliminary Study on the Shedding of Flower-Buds and Balls in Cotton in Shantung Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 4-11)
- CHIN Ti-yuan, author of the article, "Brief Lithological Description of Lower Cretaceous Deposits in the Southwestern Part of Mountainous Crimea," in Russian. (Moscow, Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, No 10, Oct 63, p 108)
- CHIN Yu-t'ai, Chemistry Department, Moscow State University; coauthor with V. V. Sarayeva of the article, "Radiational Oxidation of Heptene-1," in Russian; received for publication on 21 April 1962. (Novosibirsk, Akademiya Nauk SSSR, Sibirskoye Otdeleniye, Kinetika i Kataliz, Vol 4, No 5, Sep-Oct 63, pp 662-665)
- CH'IU Hsiang-p'in (6726/4382/5111)
- CH'ENG Chi-tung (4453/3444/2767)
- P'EI Wan-li (5952/3834/7787)
- TS'ENG Fan-t'ung (2582/0416/0681)
- YANG Ch'ao-lin (2799/2600/7792)  
Coauthors of an article, "Insemination Experiments On Mixed Sperm of Several Breeds of Cocks." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 43-45)

C-O-N-F-I-D-E-N-T-I-A-L

CH'IU K'o-jang (6726/0344/6245); author of an article, "Research On the Factors for Increasing Yield of Wheat, Barley and Naked Barley Through Spring Irrigation In Hsu and Hwai Districts of Kiangsu Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May '63, pp 21-27)

CHOU Hai-ch'uan (0719/3189/3134); author of an article, "Shock Wave Apparatus in Chemical Engineering Installations." (Shanghai, Hua-hsueh Shih-chieh [Chemical World], Vol 17, No 1, Jan 63, p 47) (CONFIDENTIAL)

CHOU Hung (0719/9464)

LU Chin-lin (7120/6930/7207)

YANG Wen-lin (2799/2429/3829)  
Coauthors of an article, "The Preparation of Octadecyl Ethelene Imine Derivatives." (Shanghai, Hua-hsueh Shih-chieh [Chemical World], Vol 17, No 1, Jan 63, pp 11-12)(CONFIDENTIAL)

CHOU Kung-tu (0719/0361/1653); author of an article, "Structural Chemistry of Compounds Containing Similar Elements with Different Electronic Values." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 9-14)

CHOU P'ei-chen (0719/0160/3791)

LIN Shih-ch'ing (2651/0013/7230)

HSIEN K'o-fa (0341/0668/3127)

T'ANG P'ei-sung (3282/0160/2646)  
All affiliated with the Laboratory of Plant Physiology, Institute of Botany, Chinese Academy of Sciences, Peiping; coauthors of the article, "Evidence for the Presence of Two Light-Dependent Enzymatic Processes Accompanying Fluorescence Decay in Wheat Leaves During the Induction Period in Photosynthesis," in English; received for publication on 25 May 1963. (Peiping, Scientia Sinica, Vol 12, No 8, Aug 63, pp 1245-1246)

CHOU Tsung-hsiang (0719/1350/4382)

YANG Tsung-hsiang (3769/1350/4382)  
Coauthors of an article, "The Development from Quick Chemical Analysis to High Speed Analysis." (Shanghai, Hua-hsueh Shih-chieh [Chemical World], Vol 17, No 1, Jan 63, pp 18-20) (CONFIDENTIAL)

C-O-N-F-I-D-E-N-T-I-A-L

CH'OU Yuan (0092/0337)

CHOU Kuo-shun (0719/0948/7311)

Coauthors of an article, "Studies on the Seed Infection and Disinfection of Verticillium and Fusarium Wilt of Cotton." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 4-8)

CHU Feng-mei (2612/7685/5019)

CH'EN Yu-ling (7115/3022/5376)

WANG Fa-ming (3769/3127/2494)

Coauthors of an article, "Key Measures for the Control of the Three Major Diseases of Rice Including Blast, Bacterial Blight as Well as Sheath and Gullm Blight." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 13-19)

1. CHU Hsi (2612/3156), deceased

2. WANG Yu-lan (3769/1636/5695)

3. HSU Kuo-chiang (1776/0948/3068)

4. CHANG Jung-hua (1728/1369/5478)

All affiliated with the Institute of Experimental Biology, Chinese Academy of Sciences, Shanghai; the first two are coauthors, with the third as technical assistant, of the article, "Hibernation, a Determining Factor in the Ovular Maturation of the Frog (*Bufo Bufo Asiaticus*)," and with the fourth as technical assistant, of the article, "The Succession of Oogenesis and the Impossibility of Ovular Maturation in the Female Frog Reared for a Full Year in a High-Temperature Environment," in French; received for publication on 19 March 1963. (Peiping, *Scientia Sinica*, Vol 12, No 8, Aug 63, pp 1161-1164 and 1165-1168, respectively)

CHU Hui-chung (2612/1920/1813), Traditional Massage Outpatients Clinic of Shanghai Chinese Traditional Medical College; author of an article reporting ten cases of chronic headache relieved by massage. (Shanghai, *Shang-hai Chung-i-yao Tsa-chih*, No 6, Jun 63, p 36)  
(CONFIDENTIAL)

CHU Jen-chun (2612/0088/0689)

LIANG Ch'un-p'ei (2733/2504/0160)

Coauthors of an article, "A Preliminary Study on the Intercropping Between Early and Late Rice." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 26-30)

C-O-N-F-I-D-E-N-T-I-A-L

FAN Hsi-p'eng (5400/6932/2590), author of an article, "Many Years of Frozen Earth in the High Plateau of Eastern Tsinghai." (Peiping, Ti-li [Geography], No 4, 1963, pp 154-156)

FANG Ku-hsing, Department of Production of Pure Metals and Semi-Conductor Materials, Moscow Institute of Steel and Alloys; coauthor with A. I. Belyayev of the article, "Electrochemical Behavior of Oxide Carbon Anodes Made of  $TiO_2 + C$  in Chloride Melt," in Russian; received for publication on 29 December 1962. (Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya Metallurgiya, No 5, Sep-Oct 63, pp 83-88)

FENG Te-p'ei (7458/1795/1014)

WEI Nai-sen (7614/0035/2773)

T'IEH Wen-hao (3944/2429/4110)

All of the Institute of Physiology, Chinese Academy of Sciences, Shanghai; coauthors of the article, "Hypertrophy of 'Slow' Muscle Fibers Following Botulinum Poisoning in Chick," in English; received for publication on 6 September 1963. (Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1757-1759)

FU Ch'en-keng (0265/6591/1649); author of an article, "A New, Readily Adaptable Centrifugal Pump With Automatic Water Cut-off Device." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 45-46) (CONFIDENTIAL)

FU Sheng-fa (0265/0524/4099), author of an article, "The Control of Cotton Insects During the Stage of Flower-Buds and Ball Growth with Chemicals in Fields." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 20-25)

HAN Cheng-k'ang (7281/2973/1660); author of an article, "Some Laws Concerning the Digestion of Pig Stomach." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 41-44)

HO Hsing-wu (6320/5281/2976); author of an article, "Several Problems Concerning the Solubility Product in Teaching." (Peiping, Hua-hsueh T'ung-pao, No 2, Feb 63, pp 55-57)

C-O-N-F-I-D-E-N-T-I-A-L

HO Lin-hsing (0149/2651/5281)

HSUEH Hsiu-hung (5641/4836/7703)

Coauthors of an article, "Microanalysis of Organic Elements:  
1. (Pregl-Dumas) Fixed Nitrogen Method." (Peiping, Hua-hsueh  
T'ung-pao [Chemistry Bulletin], No 4, Apr 63, pp 47-52)

HOU Tsung-i (0186/1350/5030), Fu-tan University; author of the article,  
"Kareman's Boundary Problem for Elliptical Systems of First-Order  
Equations," in Russian; received for publication on 22 February 1963.  
(Peiping, Scientia Sinica, Vol 12, No 8, Aug 63, p 1237)

HSIAO T'ien-ch'i (5135/1131/7871)

KUO Shih-ch'ung (6753/0013/1504)

Coauthors of an article, "An Investigation on the Regeneration of  
Some Rice Varieties." (Peiping, Chung-kuo Nung-yeh K'o-hsueh  
[Chinese Agricultural Science], No 9, Sep 63, pp 47-49)

HSU Kuang-chih (1776/1684/2535)

T'ANG Yu-ch'i (0781/2589/4388)

Both affiliated with the Institute of Chemistry, Chinese Academy of  
Sciences, Peiping; coauthors of articles, "Electron Spin Resonance  
Absorption Spectra of Aromatic Amine-Halogen Complexes," and "Elec-  
tron Spin Resonance Spectra of Free Radical Salts of Tetrachloro-p-  
Benzoquinone," in English; received for publication on 27 May 1963.  
(Peiping, Scientia Sinica, Vol 12, No 8, Aug 63, pp 1240-1241 and  
1241-1242, respectively)

HSU Li-chih (1776/0448/3112), Kirin University; author of the article,  
"Concerning an Expansion Formula for a Type of Parameter Integrals,"  
in English; received for publication on 25 December 1962. (Peiping,  
Scientia Sinica, Vol 12, No 8, Aug 63, pp 1237-1238)

HSU Shang-ch'ing (6779/0810/1987)

CH'EN Teng-lo (3088/6260/2867)

Coauthors of an article, "A Simple Method to Make General Equipment  
Used in Several Chemical Operations." (Peiping, Hua-hsueh T'ung-  
pao [Chemistry Bulletin], No 4, Apr 63, pp 58-62)

HSU Shou-t'ai (6079/4849/3141); author of an article, "Focuses of  
Animal Disease Epidemics." (Peiping, Chung-kuo Nung-yeh K'o-  
hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 8-16)

C-O-N-F-I-D-E-N-T-I-A-L

- HU Chih-te (5170/0037/1795)  
CHIANG Hsiu-chun (6199/4423/0689)  
Coauthors of an article, "Paper Chromatographic Separation of Titanium, Zirconium, and Thorium." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 47-48)
- HU Tai-tse (5170/0108/3419); author of an article, "Some Problems On Varietal Work of Flax." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 46-48)
- HUA Chu-ju (5478/5468/1172); author of an article, "Spectrophotodetermination of Methylene Blue of Gallium Traces in Ore." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 55-57)
- HUANG Chien-chung (7896/1696/0022)  
KU Yu-ying (6328/3768/3853)  
Coauthors of an article, "Studies on Arrangement of Vegetable Crops in the Light of Vegetable Production in the Suburbs of Kalgan, Hopei Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 32-36)
- HUANG Fu-hua (7806/4395/5478); author of an article, "Introduction to Elementary Transmission and Telemetry." (Shanghai, Hus-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 38-40)  
(CONFIDENTIAL)
- HUANG Hung-chia (7806/1347/0857), Institute of Electronics, Chinese Academy of Sciences; author of the article, "Nonideal Waveguide Joints," in English; received for publication on 3 September 1963. (Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1755-1757)
- HUANG Kuan-lin, coauthor with L. T. Bugayenko of the article, "Spectrophotometry of Cerium (IV) Sulfate Complexes," in Russian; received for publication on 26 December 1962. (Moscow, Akademiya Nauk SSSR, Zhurnal Neorganicheskoy Khimii, Vol 8, No 11, 16 Oct 63, pp 2479-2482)

C-O-N-F-I-D-E-N-T-I-A-L

HUANG Lung-kuang (7806/7127/1684)

SHU Chung-li (2631/0022/4539)

Coauthors of an article, "Studies on the Rhizosphere Microorganism and Vitamin B<sub>2</sub> of Some Grass Family Plants and Pod-bearing Plants." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 52-53)

HUANG Tzu-ch'iang (7806/5261/1730); author of an article, "A Preliminary Report on the Experimental Planting of Fungo Wheat in Ching-chou, South Part of Hupei Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 51-52)

I Ta-nien (2496/1129/1628)

CH'EN Kuang-ming (7115/0342/2494)

KUO Ch'ang-ch'i (6753/2490/0366)

Coauthors of an article, "Gas Chromatographic Analytical Methods for B<sub>7</sub>-C<sub>4</sub> Hydrocarbons." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 30-35) (CONFIDENTIAL)

JEN Hui-ju (0117/1920/0320)

HSIN Shu-fang (6580/3219/5364)

LI Seu-wen (2621/1835/3306)

Coauthors of an article, "A Preliminary Study on Water Requirements for Germination of Different Types of Millets." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 50-51)

JEN Mei-o (0117/5019/6948), author of an article, "The Huai Tropical

Belt of China." (Peiping, Ti-li [Geography], No 4, 1963, pp 145-150)

K'AN Wei-kuang (7074/4350/0342); author of an article, "Anodic Stripping and Its Role in Pure Substance Analysis." (Peiping, Hua-hsueh T'ung-pao, [Chemistry Bulletin], No 2, Feb 63, pp 33-37)

K'ANG Chi-ying (1660/0679/5391); author of an article, "A Study On the Cold Resistance of Varieties of Winter Wheat In New Winter Wheat-Growing Areas In Pahsia of Kalgan Hopei Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 49-51)

C-O-N-F-I-D-E-N-T-I-A-L

- KANG Chu-chieh (1660/3796/4634); translator of a Czech article, "The Preparation and Properties of the X Type Molecular Sieve." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, p 29) (CONFIDENTIAL)
- KAO Hui-min (7559/1920/3046); author of an article, "Some Experiences and Understanding Concerning the Work of Rural Experimental Station." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 3-6)
- KAO (illegible)-hung (7559/-/4767); author of an article, "Common Liquid Experiments to Determine Laboratory Vacuum Fractional Distillation Efficiency." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 34-37)
- K'ENG Iieh-t'i, coauthor with I. I. Chernyayev, N. N. Zheligovskaya, and D. V. Kurganovich of the article, "Synthesis and Study of Certain Properties of Ethylenediamine Derivatives of 4-Valent Platinum," in Russian; to be published in future issue. (Moscow, Akademiya Nauk SSSR, Zhurnal Neorganicheskoy Khimii, Vol 8, No 11, 16 Oct 63, p 2625)
- KO Shu-hua (5514/2579/5478), author of an article, "An Expert Understanding of Mineral Rocks, Analysis of Heavy Sandstone, Chemical Analysis of Rocks, and Others." (Peiping, Chung-kuo Ti-chih [Chinese Geology], No 8, 10 Aug 63, pp 28-31) (CONFIDENTIAL)
- KU Cheng-k'un (6328/2973/0981); author of an article, "Some Chemical Techniques for Inspecting the Types of Conduction in Semi-Conductor Materials." (Peiping, Hua-hsueh T'ung-pao, [Chemistry Bulletin], No 2, Feb 63, pp 38-40)
- KU I-tung (7357/5065/2639)  
CH'EN Shu-ying (7115/3219/5391)  
Coauthors of an article, "Organic Sulfoxides Used in the Synthesis of Several Kinds of Rare Earth Elemental Compounds." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 16-17) (CONFIDENTIAL)

C-O-N-F-I-D-E-N-T-I-A-L

KU Yu-chen (7357/3022/3791); author of an article, "Research on a Movable Spray Apparatus for Drying Grain." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 41-44) (CONFIDENTIAL)

KUAN Shu-hsien (7070/3219/6343); author of an article, "Silicon Powder Analysis." (Peiping, Hua-hsueh T'ung-pao, [Chemistry Bulletin], No 2, Feb 63, pp 50-52)

KUO Ch'i-ch'ien, Joint Institute of Nuclear Research; coauthor with A. S. Pasyuk, I. A. Shelayev, and Yu. P. Tret'yakov of article, "Obtaining Multicharge Neon Ions In an Impulse Source for a Cyclotron," in Russian; received for publication on 10 May 1962. (Moscow, Pribery i Tekhnika Eksperimenta, No 5, Sep-Oct 63, pp 23-25)

KUO Chih-fa (6753/1807/4099); author of an article, "An Investigation On Flood Injury to Late Rice Plants In Ningpo District, Chekiang Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 21-26)

LEI Chi-ch'ing (7191/4949/3237); author of an article, "A Preliminary Trial Report on G. Hirsutum Cotton in the Southern Part of South Shansi Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 52-53)

LI Chen (2621/2823)

CH'EN P'ei-lin (7115/1014/2651)

P'ENG Jui-hung (1756/3843/3163)

KUO Chiu-ju (6753/0046/1172)

YANG Ch'ing-hsien (2799/1987/6343)

Coauthors of an article, "The Preparation of Chloromethyl Methyl Ethers From Methyl Ethers by the Gaseous Phase Chlorination Method." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 7-10) (CONFIDENTIAL)

LI Chih-kung (2621/0037/1562); author of an article, "Graphite Carbon." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 42-43)

C-O-N-F-I-D-E-N-T-I-A-L

- LI Hsi-yen (2621/0823/1750); author of an article, "Effects and Specialties of Rational Variety-Combinations of Wheat in Yen-an District, Shensi Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 13-17)
- LI Hsiang-fu (2621/4161/4569), member of the Chinese Communist Party, member of the National Committee of the Chinese People's Political Consultative Conference, member of the Central Standing Committee of the China Democratic League, chairman of the board of directors of the China Forestry Society, vice president of the Chinese Academy of Forestry Science; died on 20 October 1963 in Peiping at age 59. (Peiping, Jen-min Jih-pao, 23 Oct 63, p 6)
- LI I-ming, Moscow Institute of Fine Chemical Technology; coauthor with K. A. Andrianov and T. V. Vasil'yev of the article, "On the Interaction of  $\alpha, \omega$ -Dichlorodimethylsiloxanes With Ethylamine," in Russian; received for publication on 6 April 1963. (Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 10, Oct 63, pp 1847-1850)
- LI Jen (2621/0088); author of an article, "Studies on Making Firm the Soft, Forward Hide of the Yellow Cow by Chrome Tanning." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 21-24) (CONFIDENTIAL)
- LI Jui-min (2621/3843/2404); author of an article, "Experiences On Raising Cattle In China In Ancient Times." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 46-49)
- LI Hien-piao (2621/5114/2871); author of an article, "Technical Experiences on the Reformation of Old Tea Garden." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 32-38)
- LI P'ei-ch'eng (2621/0160/2052), author of an article, "Advantages by Utilization of Underground Water for Irrigation and a General Survey of its Advance in Foreign Countries." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 45-48)

C-O-N-F-I-D-E-N-T-I-A-L

LI Shao-hsiung (2621/4801/7160); author of an article, "Esters and Polymers of Methacrylic Acid and Methyl Mercaptin." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 4, Apr 63, p 63)

LI Tsung-tao (2621/1350/6670); author of an article, "A Discussion on the Degeneration of Jute Varieties and The Way of Breeding." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 21-24)

LI Tsung-tao (2621/1350/6670)

P'ENG Tan-ho (1756/3225/0735)

CH'EN Hsueh-chun (7115/1331/6297)

Coauthors of an article, "Research on the Ramifying Law of the Underground Stems in Ramie and the Approach to its Control." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 41-44)

LI T'ung-fang (2621/2717/5364); author of an article, "Problems of Rational Irrigation in Districts of Easily-Alkalinized Land in the Plains." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 38-40)

LI Tung-hui (2621/2639/6540), author of an article, "Problems on the Causes of Formation of Unfilled Grain in Millet Culture." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 31-36)

LI Tung-hui (2621/2639/6540)

CHANG Shu-sen (1728/2885/0773)

TS'UI Wen-sheng (1503/2129/3932)

CHENG Yen-su (6774/1750/5685)

CHAO Lien-yuan (6392/6647/0337)

Coauthors of an article, "Some Dominant Factors Affecting Millet Yield and Its Physiological Basis in Culture." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 22-26)

C-O-N-F-I-D-E-N-T-I-A-L

LI Yu-ts'ai (2621/3768/2088)

CHANG Chu-han (1728/2691/3352)

Coauthors of an article, "The Course of the Selection of "Hsueh No 209" (cotton)." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 12-16)

LIANG Shang-shu (2733/0006/5289); author of an article, "Studies on Choosing and Selecting Direction of Varieties of the Late Type (2 Crop) of Rice in Hangchow, Chia-hsing and Hu-chou Districts of Chekiang Province." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 27-31)

LIEN Ken-fang (2651/2704/5364), author of an article, "Genesis of Granite-Pegmatite Rich in Tantalum, Niobium and Beryllium." (Peiping, Chung-kuo Ti-chih [Chinese Geology], No 8, 10 Aug 63, pp 1-14)  
(CONFIDENTIAL)

LING Chia-p'u (0407/1367/3184)

LIU Ying-ch'uan (2692/2503/2938)

YANG Kung-sen (2799/0501/2773)

Coauthors of an article, "A Preliminary Investigation on the Effect of Successive Veralization on Increment of Yield in Potato." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 50-51)

LING Kuang-ts'ang, Leningrad University; coauthor with D. A. Fridrikhsberg of the articles, "Investigation of Surface Conductance Depending on Temperature, Composition of the Solution, and Its Concentration," and "Investigation of the Electrokinetic Potential Depending on Temperature, Composition of the Solution, and Its Concentration," in Russian; received for publication on 10 January 1962. (Leningrad, Vestnik Leningradskogo Universiteta, No 16, Seriya Fiziki i Khimii, No 3, 20 Aug 63, pp 77-87 and 88-93, respectively)

LIU Han-fan (0491/3352/5400); author of an article, "Brief Introduction to the Analytical Method of the Fluorescence Spectrum." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 2, Feb 63, pp 1-8)

C-O-N-F-I-D-E-N-T-I-A-L

- LIU Ping-hsun (0491/3521/0534)  
SHAO Ping-hsu (6730/3521/2485)  
WANG Ta-chen (3769/1129/4631)  
Coauthors of an article, "A Discussion On the Vine-turn In Growing Sweet Potatoes." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 32-37)
- LIU Ting-ch'ang (0491/7844/2490), author of an article, "Sodium-Syenitization of Granite in Certain Areas, Greisenization, and Special Mineralization Process of Rare Elements." (Peiping, Chung-kuo Ti-chih [Chinese Geology], No 8, 10 Aug 63, pp 15-21) (CONFIDENTIAL)
- LIU Tsun-hai (0491/6690/3189)  
YUAN Shu-lan (5913/3219/5695)  
CHANG Wen-chiang (1728/2429/3068)  
Coauthors of an article, "The Question of Growth and Special Geomorphologic Features of Li-tzu-ku-wa (Litzuki Depression), Hopeh Province." (Peiping, Ti-li [Geography], No 4, 1963, pp 157-159)
- LIU Yung-lung, All-Union Scientific-Research Institute of Medicinal and Aromatic Plants and Moscow Chemical-Pharmaceutical Plant No 1; coauthor with P. M. Ioshkarev and L. F. Tyapkina of the article, "Seeds of *Erysimum canescens* Roth As a Source of Erysimin," in Russian; received for publication on 19 March 1963. (Moscow, Meditsinskaya Promyshlennost' SSSR, No 10, Oct 63, pp 38-41)
- LO P'eng (5012/7720)  
LAN Tse-ch'u (5663/3419/5698)  
LIN Ch'eng-hsin (2651/2052/9515)  
Coauthors of an article, "The Heterogeneity of Rapeseed and Its Adoption on Seed Growing." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 41-43)
- LIU Ch'ang-wen (0712/7022/2429); author of an article, "Some Technical Problems on the Prevention of Fruitlessness of Rice Grown in the Field with Low Temperatures." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 52-53)
- LIU Yu-huan (4151/3768/3562); author of an article, "Electrical Conductance Experiment Demonstration Board -- An Electrochemical Teaching Aid Introduced." (Peiping, Hua-hsueh T'ung-pao, No 2, Feb 63, pp 57-58)

C-O-N-F-I-D-E-N-T-I-A-L

P'AN Chia-lai (3382/1367/0171); author of an article, "Investigation of the Valance Bond Structure Using the Magnetic Spectra Method." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 3-5) (CONFIDENTIAL)

PAO Ching-sheng (1405/3228/3932); author of an article, "Esters of Polycarbon Acids." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 4, Apr 63, pp 33-37)

P'ENG Chih-chung (1756/1807/1813)

WU Ch'eng-yu (0702/3413/1342)

CHANG P'i-hsing (1728/0012/5281)

All affiliated with the Institute of Geology, Peiping; coauthors of the article, "Crystalline Structure of Ascharite," in Russian; received for publication on 21 July 1963. (Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1761-1764)

SHEN Chia-ch'ing (3088/4471/7230); author of an article, "A Preliminary Investigation on the Flowering and Fruit-bearing Habit of the Sweet Potato As Well As Its Crossing Practices." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 49-52)

SHEN Hsiu-ying (3088/4423/5391)

LO Yao-pin (5012/5069/1755)

Coauthors of an article, "A Preliminary Study on the Effect for Increasing Yield by Interplanting Cereal Crops With Cotton in Broad Ridges." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 28-34)

SHIH Chen (2457/3791)

LIU Lung-wang (0491/7127/2489)

HUANG Ming-o (7806/7686/1230)

Coauthors of an article, "On Raddional Close Planting of Cotton." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 37-40)

C-O-N-F-I-D-E-N-T-I-A-L

SHIH Sheng-t'ai (4258/5116/3141)

FENG Ming-jen (7458/2494/0088)

FAN Yao-t'an (5400/5069/2905)

LIN Lien-hao (2651/5114/3493)

TS'AO T'ieh-liang (2580,6993/2856)

All affiliated with the Institute of Metallurgy, Chinese Academy of Sciences, Shanghai; coauthors of the article, "Chromizing of Iron and Steel from Fused Salt Bath," in English; received for publication 12 April 1963. (Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1766-1768)

SU Mien-ts'eng (5685/0517/2582); author of an article, "Chlorine Metallurgy of Rare Earth Elements." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 4, Apr 63, pp 1-10)

SUN Ch'eng-hsien (1327/2110/6897)

WANG Hung-lin (3769/4767/2651)

Coauthors of an article, "On the Causes of Sudden Attacks of Silkworm Virosis." (Peiping, Chung-kao Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 16-20)

SUN Yu-shan (1327/3768/0810); author of an article, "The Organic Chemistry of Hydrazine and Its Derivatives." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 4, Apr 63, pp 38-46)

TA Yu-hsien (4572/2589/0103)

CHU Hsiu-ch'ang 92612/4423/2490)

Coauthors of an article, "The Use of Direct Current to Measure the Resistance of Ion Exchange Membranes." (Peiping, Hua-hsueh T'ung-pao, [Chemistry Bulletin], No 2, Feb 63, pp 47-50)

T'ANG Ming-tao (0781/2494/6670); author of an article, "Absorption Spectrum Criterion of Conjugate Systems." (Peiping, Hua-hsueh T'ung pao [Chemistry Bulletin], No 3, Mar 63, pp 37-41)

TING Hsi-chih (0002/6932/4363)

HSTIAO Sung-huan (5618/1345/1403)

Coauthors of an article, "Periglacial Morphology -- An Introductory Branch of Geomorphology." (Peiping, Ti-li [Geography], No 4, 1963, pp 145-150)

C-O-N-F-I-D-E-N-T-I-A-L

TS'ENG Mien (2582/0517)

CHAO Hsueh-yuan (6392/1331/3293)

Coauthors of an article, "Preliminary Studies On Control of Yellow Dragon Disease of Citrus." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 17-20)

T'U Tun-hsin (3205/2415/9515); author of an article, "The Introduction of Fiber Crops From Different Localities." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 17-20)

TUNG Ch'i-fen (5516/0366/5358)

MIAO Hui-tien (5379/1979/5571)

LI Shu-huan (2621/2885/3883)

Coauthors of an article, "Measures for Cultivation of Rice in Relation to the Rice Blast Dynamics and Its Morphological Characteristics." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 9-15)

WANG Ch'eng-ho, Moscow Machine Tool Institute; author of article, "Comparative Analysis of Programmed Systems for Metal-Cutting Tools," in Russian. (Moscow, Stanki i Instrument, No 10, Oct 63, p 43)

WANG Cheng-shao (3769/2973/2626)

LUNG T'ien-hou (7893/1131/0624)

HO Chia-jung (0149/0857/2837)

Coauthors of an article, "A Brief Report on the Effect of Raw Fodder on Pigs." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 6, Jun 63, pp 49-50)

WANG Fo-sung (3769/0154/2646); author of an article, "Some Progress in Homogeneous Directed Polymers." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 4, Apr 63, pp 18-25)

WANG Liang-shen

YANG Chih-chen

Both of the Department of Radiochemistry, Moscow State University; coauthors with A. Bekker and An. N. Nesmeyanov of the article, "Isolation of Terpenes By Gas-Liquid Chromatography," in Russian; received for publication on 9 July 1962. (Moscow, Izvestiya Bysshikh Uchebnykh Zavedeniy, Khimiya i Khimicheskaya Tekhnologiya, Vol 6, No 4, 28 Jun 63, pp 597-600)

C-O-N-F-I-D-E-N-T-I-A-L

- WANG Pao-chun (3076/5508/3449); author of an article, "Continuous Determination of Electrical Conductance." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 25-29) (CONFIDENTIAL)
- WANG Po-i (3769/0130/3015); author of an article, "Some Opinions On Dividing the Growing Stages of Young Seedlings of Tobacco." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 5, May 63, pp 40-45)
- WANG Shan-yuan (3769/0810/3293), Institute of Epidemiology and Microbiology, Academy of Medical Sciences, Peiping; author of the article, "Cosmic Radiation and Cancer; I. Influence of Cosmic Radiation at Sea Level on Induced Cancer," in English; received for publication on 16 August 1963. (Peiping, Scientia Sinica, Vol 12, No 11, Nov 63, pp 1760-1761)
- WANG Shih-hua, Moscow State University; coauthor with L. M. Kovba and V. I. Spitsyn of the article, "X-Ray Investigation of Certain Binary Oxides of Uranium and Vanadium," in Russian; received for publication 11 May 1962. (Moscow, Akademiya Nauk SSSR, Zhurnal Strukturnoy Khimii, Vol 4, No 5, Sep-Oct 63, pp 714-718)
- WANG T'ung, Moscow State University; author of the article, "Increasing Property of Direct Values of Generalized Potentials for the Comparison Function and for the Main Fundamental Solution of a Second Order General Elliptic Equation," in Russian; received for publication on 10 May 1963. (Moscow, Doklady Akademii Nauk SSSR, Vol 152, No 6, 21 Oct 63, pp 1288-1291)
- WANG Yu-lin (3769/1342/7207); author of an article, "On the Heritability of Progeny of Intercropping Fruit." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 27-31)
- WU Ming-fang (0702/6900/5364); author of an article, "Synthesis of Acetaldehyde by Oxidation of Ethylene." (Shanghai, Hua-hsueh Shih-chieh (Chemical World), Vol 17, No 1, Jan 63, pp 13-15) (CONFIDENTIAL)

C-O-N-F-I-D-E-N-T-I-A-L

WU T'uan, Kiev State University; author of article, "On a Theorem of Operational Calculus," in Ukrainian; received for publication on 12 March 1963. (Kiev, Dopovidi Akademii Nauk Ukrayns'koy Radyans'koy Sotsialistichnoy Respubliki, No 10, Oct 63, pp 1315-1317)

YANG Shih-hsing (2799/6108/5281); author of an article, "Some Opinions On Enacting Standards For China On Feeding Domestic Animals." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 7, Jul 63, pp 1-7)

YAO Kan-yuan (1702/0049/0337)

CH'EN Hsueh (7115/7185)

Cosauthors of an article, "Ion-exchange Cellulose Chromatography." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 4, Apr 63, pp 26-32)

YAO Te-ying, Moscow Technological Institute of Light Industry; co-author with N. N. Pavlov, G. A. Arbuzov, and S. A. Pavlov of the article, "On the Action of Chromium (III) and Aluminum Salts on Mixed Polyamides," in Russian; received for publication on 24 March 1962. (Moscow, Akademiya Nauk SSSR, Vysokomolekulyarnyye Soyedineniya, Vol 5, No 10, Oct 63, pp 1558-1561)

YEH Ju-chiu, Leningrad University; coauthor with I. A. Tserkovnitskaya of the article, "Amperometric Determination of Thorium With the Aid of Thoron," in Russian; received for publication on 26 Oct 63 /62?/. (Leningrad, Vestnik Leningradskogo Universiteta, No 16, Fizika i Khimiya, No 3, 20 Aug 63, pp 135-136)

YEH Jung (5509/1369)

HUANG Shih-k'ai (7806/0013/2818)

FENG Te-p'ei (7458/1795/1014)

All affiliated with the Institute of Physiology, Chinese Academy of Sciences, Shanghai; coauthors of the article, "Apparent Transformation from Felderstruktur to Fibrillenstruktur With Stretch and the Converse Change With Shortening in Certain Muscles of the Chick," in English; received for publication on 6 June 1963. (Peiping, Scientia Sinica, Vol 12, No 8, Aug 63, pp 1242-1243)

C-O-N-F-I-D-E-N-T-I-A-L

YEN Yung-hui (5509/3057/6540); author of an article, "Inducted Reaction in Analytical Chemistry." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 4, Apr 63, pp 52-57)

YIN Shao-lin (3009/1421/2651)

TS'AI Chen-jung (5591/6966/2837)

Coauthors of an article, "Scientific Notes on Farm Motive Power Machines for Irrigated Land in South China." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 9, Sep 63, pp 45-46)

YU Shih-ch'ong (0151/0013/1134), author of an article, "The Properties of High Polymers with Regular Cubic Structures in Solution." (Peiping, Hua-hsueh T'ung-pao [Chemistry Bulletin], No 3, Mar 63, pp 24-27)

YUAN Ts'ung-i (5913/1783/4400) .

KU Jung-shen (7357/2837/3947)

YU Te-min (1429/1795/2404)

PAI Kang-i (4101/4854/5030)

CH'IU Chia-chang (6726/0857/3864)

Coauthors of an article, "The Key Approach to the Reformation of White Paddy Soils." (Peiping, Chung-kuo Nung-yeh K'o-hsueh [Chinese Agricultural Science], No 8, Aug 63, pp 44-48)

\* \* \*

7 September 2004

Ms. Roberta Schoen  
Deputy Director for Operations  
Defense Technical Information Center  
7725 John J. Kingman Road  
Suite 0944  
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

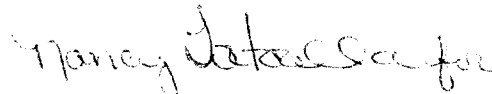
In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,



Sergio N. Alcivar  
Chief, CIA Declassification Center,  
Declassification Review and Referral  
Branch

Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)



## Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

| OGA Doc ID | Job Num   | Box | Fldr | Doc | Doc ID | Document Title  | Pub Date   | Pages | Decision             | Proc Date |
|------------|-----------|-----|------|-----|--------|---|------------|-------|----------------------|-----------|
| AD0343932  | 78-03117A | 213 | 1    | 18  | 5117   | Scientific Information Report Chinese Science (34)                                  | 10/22/1963 | 89    | Approved For Release | 3/29/2004 |
| AD0344702  | 78-03117A | 214 | 1    | 21  | 5149   | Scientific Information Report Chinese Science (35)                                  | 11/4/1963  | 133   | Approved For Release | 3/29/2004 |
| AD0344965  | 78-03117A | 215 | 1    | 4   | 5163   | Scientific Information Report Chinese Science (36)                                  | 11/7/1963  | 133   | Approved For Release | 3/29/2004 |
| AD0345229  | 78-03117A | 215 | 1    | 23  | 5182   | Scientific Information Report Chinese Science (37)                                  | 11/18/1963 | 179   | Approved For Release | 3/29/2004 |
| AD0345750  | 78-03117A | 216 | 1    | 20  | 5209   | Scientific Information Report Chinese Science (38)                                  | 12/11/1963 | 174   | Approved For Release | 3/29/2004 |
| AD0344419  | 78-03117A | 217 | 1    | 20  | 5241   | Scientific Information Report Chinese Science (39)                                  | 12/27/1963 | 75    | Approved For Release | 3/29/2004 |
| AD0346493  | 78-03117A | 218 | 1    | 21  | 5277   | Scientific Information Report Chinese Science (40)                                  | 1/10/1964  | 115   | Approved For Release | 3/29/2004 |
| AD0346725  | 78-03117A | 219 | 1    | 27  | 5320   | Scientific Information Report Chinese Science (41)                                  | 1/27/1964  | 78    | Approved For Release | 3/29/2004 |
| AD0347051  | 78-03117A | 220 | 1    | 25  | 5359   | Scientific Information Report Chinese Science (42)                                  | 2/6/1964   | 78    | Approved For Release | 3/29/2004 |
| AD0347849  | 78-03117A | 221 | 1    | 39  | 5407   | Scientific Information Report Chinese Science (43)                                  | 3/2/1964   | 174   | Approved For Release | 3/29/2004 |
| AD0347929  | 78-03117A | 222 | 1    | 25  | 5438   | Scientific Information Report Chinese Science (44)                                  | 3/5/1964   | 104   | Approved For Release | 3/29/2004 |
| AD0348352  | 78-03117A | 223 | 1    | 20  | 5479   | Scientific Information Report Chinese Science (45)                                  | 3/20/1964  | 117   | Approved For Release | 3/29/2004 |
| AD0349491  | 78-03117A | 225 | 1    | 18  | 5560   | Scientific Information Report Chinese Science (46)                                  | 4/24/1964  | 118   | Approved For Release | 3/29/2004 |
| AD0349657  | 78-03117A | 225 | 1    | 34  | 5581   | Scientific Information Report Chinese Science (47)                                  | 5/4/1964   | 98    | Approved For Release | 3/29/2004 |
| AD0332751  | 78-03117A | 183 | 1    | 29  | 3940   | Scientific Information Report Electronics And Engineering (22)                      | 10/19/1962 | 68    | Approved For Release | 3/29/2004 |
| AD0333146  | 78-03117A | 186 | 1    | 20  | 4041   | Scientific Information Report Electronics And Engineering (23)                      | 11/23/1962 | 73    | Approved For Release | 3/29/2004 |
| AD0334103  | 78-03117A | 188 | 1    | 37  | 4136   | Scientific Information Report Electronics And Engineering (24)                      | 12/20/1962 | 62    | Approved For Release | 3/29/2004 |
| AD0334236  | 78-03117A | 190 | 1    | 40  | 4217   | Scientific Information Report Electronics And Engineering (25)                      | 1/22/1963  | 48    | Approved For Release | 3/29/2004 |
| AD0334769  | 78-03117A | 193 | 1    | 39  | 4339   | Scientific Information Report Electronics And Engineering (26)                      | 2/28/1963  | 68    | Approved For Release | 3/29/2004 |
| AD0335480  | 78-03117A | 196 | 1    | 17  | 4436   | Scientific Information Report Electronics And Engineering (27)                      | 3/21/1963  | 95    | Approved For Release | 3/29/2004 |
| AD0336306  | 78-03117A | 199 | 1    | 2   | 4538   | Scientific Information Report Electronics And Engineering (28)                      | 4/25/1963  | 69    | Approved For Release | 3/29/2004 |
| AD0332433  | 78-03117A | 183 | 1    | 35  | 3946   | Scientific Information Report Organization And Administration Of Soviet Science (5) | 10/22/1962 | 60    | Approved For Release | 3/29/2004 |