

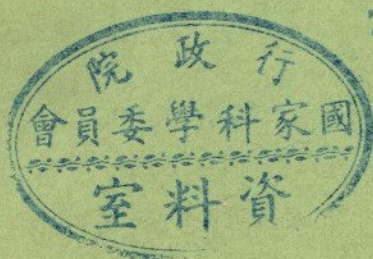
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1970

# NSC

REVIEW

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77.7.15

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c. The development of fishery and exploration of ocean resources has been one of NSC priority projects. The Institute of Oceanography of National Taiwan University was given NT\$10,000,000 during the year to strengthen its facilities and step up their exploration and research activities. The research vessel Chiu Lien has made several cruises in the adjacent waters in connection with geophysical and marine biological studies.

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e. Appropriations totalling NT\$7,500,000 were made by NSC in the year for the National Taiwan University and National Chiaotung University in support of their studies in the field of electronics. Projects completed so far by the two universities include those concerning microwave, semiconductor, electronic physics and electronic computer.

f. NSC appointed an inspection team in May 1970 to visit the six graduate research centers to find out the state of their development with a view to adjusting their functions and roles in such a way they can better meet national needs. The recommendations made by the team subsequently were studied by the NSC and many of them adopted.

#### **IV. PROMOTION OF INDUSTRIAL RESEARCH AND RESEARCH IN APPLIED SCIENCES**

NSC continued to support the Union Industrial Research Institute, the Mining Research and Service Organization and the Metal Industry Research Institute, all affiliated with the Ministry of Economic Affairs. Among the other research projects carried out with NSC support are the following:

##### **a. Communication & Transportation**

NSC earmarked funds for research on computer science for telecommunication use and study on new navigation techniques. A survey of the Keelung harbor in connection with a proposed expansion program was also carried out with NSC backing.

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NSC supported the manufacture of radioisotopes for extensive use in the fields of industry, agriculture and medicine. The planning for the construction of a nuclear power plant at Kinshan also received NSC support.

##### **c. Agriculture**

NSC support for agricultural activities has branched out into fishery and forestry. The artificial propagation of grey mullet and other agriculture projects, for instance, have been given vigorous NSC support.

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In FY 1970 NSC budgeted NT\$7,700,000 in support of various research activities in the realm of humanities and social sciences. Additionally, NSC appropriated NT\$4,900,000

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## **VI. US-CHINA COOPERATIVE SCIENCE PROGRAM**

The bilateral program, initiated in July 1969, is being implemented through four separate activities: Long-term Visiting Scientists, Short-term Visiting Scientists, Cooperative Research, and Science Seminars. In FY 1970 the following activities were materialized:

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Seven American scientists have arrived in Taiwan as long-term visiting scientists. The Republic of China also sent one of its scientists to the U.S. to participate in a collaborative research project.

b. A total of twenty-eight prominent American scientists arrived in Taiwan during the year for lectures and other academic activities as short-term visiting scientists.

### **c. Cooperative Research**

One cooperative research project has already been carried out. Coordination between NSC and the special assistant to the American ambassador for science and technology has started in connection with (1) recruitment of more American experts to help Chinese scientists make research in oceanography, electronics, metallurgy, computer science, chemical engineering, and medical science and (2) enlisting the help of American specialists for the establishment of a computer system and advanced industrial research in the Republic of China, (3) inviting specialists to explore new fields in science and technology, including aerial photography and photogrammetry, and (4) providing experts to help plan Taiwan's infrastructure for science and technology, such as patent system and standards of measurements.

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## A. ENGINEERING AND APPLIED SCIENCES

### (1) National Taiwan University

1. Determination of Total Electron Content and Scintillation of the Ionosphere  
**Kwang-hong Pai** 白光弘 Professor
2. The Influence of Typhoon Tracks upon Orographic Rainfalls in Taiwan  
**Shih-ta Hsu** 徐世大 Professor
3. A Study of the Techniques of Floating-zone Refining and Single Crystal Growing of Silicon  
**Tse-Hong Loh** 陸志鴻 Professor
4. Analysis of Continuous Beams and Frames by Method of Partitioning  
**Chao-chung Yu** 虞兆中 Professor
5. Investigation of Flow in a Curved Open Channel: I. Analysis of Fully Developed Turbulent Flow in a Curved Open Channel  
**Yen-Chi Lu** 盧衍祺 Professor
6. The Basic Equations of Fluid Dynamics and Thermodynamics in Moving Coordinates  
**Kuang-Chung Lin** 林光中 Associate Professor

### (2) National Chiaotung University

7. A Generalization of the Function-theoretic Technique and Its Application to Some Diffractions Problems  
**Nan-Hung Kuo** 郭南宏 Professor
8. Design of a Mini-computer  
**Chao-tzo Yang** 楊超植 Professor
9. Hot Electron Transport and Phonon-interface State Interaction in Schottky Barriers  
**Chun-Yen Chang** 張俊彥 Associate Professor

### (3) National Tsinghua University

10. A Study on Taiwan Natural Background  
**Pao-san Weng** 翁寶山 Associate Professor

(4) Provincial Chunghsing University

11. A Study on Failures and Landslides of Mountain-road in Taiwan  
**Heng Chou** 周 恒 Professor
12. Hydrodynamic Analysis on Various Kinds of Spatially Varied Flow with the Preliminary Study and Basic Applications on Hemodynamics  
**Chi-wu Ho** 何智武 Associate Professor

(5) Provincial Chengkung University

13. Optimization of Distributed-parameter System in Chemical Industry  
**Yen-ping Shih** 石延平 Professor
14. Plastic Analysis of Horizontal Curved Girders  
**Po-chien Lin** 林柏堅 Professor
15. A Study on Vapor Growth of CdTe Single Crystals  
**Ming-pan Hung** 洪銘盤 Professor
16. Synthesis of Control System Based on Approximation of a Third-order System  
**It-Bau Huang** 黃乙卯 Professor
17. Researches on the Wave Features and Their Practical Calculation Method on Continental Shelf  
**Lin-wu Tang** 湯麟武 Professor
18. Polarographic Studies of Metal Chelates  
**Tsai-teh Lai** 賴再得 Professor
19. A Research on the Tests of Reinforced Concrete for Steel Bars Replaced by Plastic Materials  
**Yin-mou Wang** 王櫻茂 Associate Professor

(6) Aeronautic Industry Development Center

20. Dynamic Response to a Moving Load on an Elastic Plate Resting on the Deformable Foundation  
**Ti-Chiang Lee** 李迪強 Deputy Director

(7) Union Industrial Research Institute, Ministry of Economic Affairs

21. Molecular Weight Distribution of PVC and Its Copolymers by Gel-permeation Chromatography  
**Wei-wen Hsu** 許巍文 Section Chief
22. Copolymerization of Vinyl Chloride and Vinyl Acetate  
**Kuei-shih Chia** 賈魁士 Deputy Director



23. A Study of Gamma Ray Induced Polymerization of Vinyl Monomers in Bagasse  
**Ung-Ping Wang** 王文濱 Section Chief
24. The Battery for Electric Cars  
**Ruiten Ouyang** 歐陽瑞典 Engineer

## B. HUMANITIES AND SOCIAL SCIENCES

### (1) National Taiwan University

1. The Spirit of Chinese Philosophy: Part III. The Systems of Chinese Mahāyānic Buddhism  
**Thome H. Fang** 方東美 Professor
2. Lives and Thoughts of Confucius and Mencius  
**Tzu-Shui (alias Chun) Mao** 毛準 (子水) Professor
3. A Study on the Preceramic Materials Excavated from the Agglomerate Caves on the East Coast of Taiwan  
**Wen-hsun Sung** 宋文薰 Professor
4. Historiography in the Early Ching Period  
**Wei-yun Tu** 杜維運 Professor
5. A Proposal for Improving the Existing Fertilizer-rice Barter System in Taiwan  
**Mo-huan Hsing** 邢慕寰 Professor
6. A Study of Mencius and Hsün-Tze  
**Kang Woo** 吳康 Professor
7. The Implementation of Land Reform in Taiwan—A Case Study of the Rule of Law  
**Herbert Han-Pao Ma** 馬漢寶 Professor
8. The Economic Structure of Taiwan, 1952-1969  
**Wanyong Kuo** 郭婉容 Professor
9. The Patterns and Prospects of Manufactured Exports of the Developing Countries  
**Yen Hwa** 華嚴 Professor
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**Kwan-hai Lung** 龍冠海 Professor
14. The "Tatbestandmässigkeit" in the Ch'ing Codes  
**Yen-hui Tai** 戴炎輝 Professor
15. The Changes in the Thoughts on the Classics (Chings) in the West Han, East Han, Wei and Chin Dynasties  
**Chun-jen Tai** 戴君仁 Professor
16. An Analysis of West Germany's 1969 Code of Criminal Law, General Part, with Regard to Its Legal Rules and Penal Policy  
**Chung-Mo Han** 韓忠謨 Professor
17. An Investigation to the Sinological Materials of the Pre-Ch'in Period (Part II)  
**Wan-li Ch'u** 屈萬里 Professor
18. Fixed Exchange Rate and International Monetary System  
**Kuo-tao Yui** 余國燾 Professor
19. Effective Tariff Protection: Some Theoretical Issues and Its Measurement  
**Kuo-shu Liang** 梁國樹 Professor
20. The Changing Interpretation of Abolitionism in the Twentieth Century  
**Tung-hsun Sun** 孫同勛 Professor
21. As Economic Study of Land Reform in Taiwan  
**Yu-kang Mao** 毛育剛 Associate Professor

(2) National Chengchi University

22. A Study on the Evolution of the Legal System in the Late Ch'ing Dynasty  
**Chi-yuen Lo** 羅志淵 Professor
23. Studies on Buddhism in Sung Dynasty: Part I  
**Maurus Hao Fang** 方豪 Professor
24. An Approach to the Textural Criticisms and the Development of "Yueh Ling"  
**Meng-ou Wang** 王夢鷗 Professor
25. Trade, Peace and War between the Nomadic Altaic and the Agricultural Chinese  
**Sechin Jagchid** 札奇斯欽 Professor
26. Regionalism and World Order  
**Chien-min Chu** 朱建民 Professor
27. A Study of the Legal Aspects of the Question of Peaceful Uses of the Sea-bed and the Ocean Floor, and the Subsoil thereof, Underlying the High Seas beyond the Limits of Present National Jurisdiction  
**Che-tai Lee** 李其泰 Professor

28. An Analysis of the Aptitudes of the Public Junior High School Students in Taiwan  
**Ping-Cheng Hu** 胡秉正 Professor
29. A Study of Têng Yün  
**Ming Kao** 高明 Professor
30. The International Court of Justice: Part I  
**Rolet Chih-Shih Chen** 陳治世 Professor
31. A Study of the Recently Published Official Documents concerning the Sino-British Intercourse at Canton Prior to 1840  
**Chia-ping Liang** 梁嘉彬 Professor
32. The Demand for Money  
**Cheng-fu Chang** 張震復 Professor
33. Marketing System  
**Pi-li Yang** 楊必立 Professor
34. An Application of Stochastic Processes  
**Yao-pan Cheng** 鄭堯拌 Professor
35. The Measurement of the Height of Chinese Tariffs  
**Chuan-ting Lu** 魯傳鼎 Professor
36. Research on Specific Subjects of Law of Insurance
  - I. A Study on Insurance and Similar Business Undertaking
  - II. A Comparative Study on Coverage of Fire Insurance
  - III. A Comparative Study on Liability of the Insurer**Wen-sheng Shih** 施文森 Associate Professor

### (3) Academia Sinica

37. I. On the Party Conflict Occurring in the Human Province, 1897-1898  
II. On the Memoranda of Tu Jen-shou, as Recorded in Kang Yu-wei's Collected works  
**Chang-chien Hwang** 黃彰健 Research Fellow
38. The Annexations and Migrations of the Ch'un-Ch'iu States and Their Influences  
**Pan Chen** 陳 槃 Research Fellow
39. Studies of the Anyang Bronzes: the Hu-bottle, the Kuei-bowl, and the Lei-jar  
**Chi Li** 李 濟 Research Fellow
40. The Systematic Adjustment and study of the Materials Excavated from the Hsiao-t'un Section B of the Yin-Shang Cemetery Site at Anyang, Honan  
**Chang-ju Shih** 石璋如 Research Fellow
41. The Double Canoe and Deck Canoe in Ancient China and the Oceania  
**Shun-sheng Ling** 凌純聲 Research Fellow

42. Hou Chia Chuang: The Yin-Shang Cemetery Site at Anyang, Honan, Volume 9:  
HPKM1129 & HPKM1400

**Chu-hsun Kao** 高去尋

Research Fellow

(4) **National Taiwan Normal University**

43. A Study of Horse in Tang Dynasty

**Shu-tung Li** 李樹桐

Professor

44. An Experimental Study of the Development of Mathematical Problem Solvingability

**Fu-ming Chia** 賈馥茗

Professor

45. Annotation of Bronze Inscription in Chou Dynasty

**Shih-hsien Lu** 魯實先

Professor

(5) **Provincial Chunghsing University**

46. A Study in the Law of Agency

**Hsiao-yuan Ho** 何孝元

Professor

47. An Analysis on the Operation of Farmers' Associations in Taiwan

**Mao-ying Chiu** 邱茂英

Associate Professor

(6) **Political Operations Academy (Formerly Political Officers' Academy)**

48. Constitution of Five Powers

**Cho-hsuan Jen** 任卓宣

Professor

**C. NATURAL AND MATHEMATICAL SCIENCES**

(1) **National Taiwan University**

1. The Dehydration Reaction of Natural Truscottite

**Veichow C. Juan** 阮維周

Professor

2. Solution of the Corrugated Wave-guide Problem for Large Values of the Propagation-Constant

**Wolfgang Kroll** 克洛爾

Professor

3. I. Extractive Components from the Wood of *Taiwania cryptomerioides* Hayata

II. Extractive Components from the Seed of *Myristica cagayanensis* Merr.

**Yau-tang Lin** 林耀堂

Professor

4. Studies of Internal Rotation about the C-C Bond: Dependence of Vicinal H-H Coupling Constants in 1, 1, 2-Trisubstituted Ethanes on the Physical Parameters Related to Internal Rotation

**Wei-chuwan Lin** 林渭川

Professor

5. Electrometric Studies on Kinetics of Chemical Reaction  
**Zui-feng Lin** 林瑞烽 Professor
6. Heavy Mineral Deposits in the Tainan District  
**Chao-chi Lin** 林朝榮 Professor
7. New System of Earth Science Researches No. 1 and 2  
**Ting-ying H. Ma** 馬廷英 Professor
8. Synthesis of Biflavonyl Ethers  
**Fa-ching Chen** 陳發清 Professor
9. A Study on the Behavior of Metal Ions in Solution with Radioactive Tracers  
**Ying-mao Chen** 陳英茂 Professor
10.  $^{20}\text{Ne}(n, \alpha)^{17}\text{O}$  Reaction Induced by 14.1 MeV Neutrons  
**Yuinchi Hsu** 許雲基 Professor
11. A Study on the P-(2-hydroxy-1-naphthylazo) benzenesulfonic Acid Chelates of the Di-positive Ions  
**Tung-ming Hsu** 許東明 Professor
12. Summability of Infinite Series and Fourier Series  
**Fu-cheng Hsiang** 項繼宸 Professor
13. Possibilities of Existence of Rotational and Vibrational States in Elementary Particles  
**Jenn-lin Hwang** 黃振麟 Professor
14. Hypersthene from the Tatun Volcanoes, Taiwan  
**Chun-Kiang Huang** 黃春江 Professor
15. I. Studies on Plant Biochemistry  
II. Bio-organic Tracer Studies with Radioactive Isotopes  
**Chao-hwa Yang** 楊昭華 Professor
16. I. Thermodynamic & Electrochemical Studies of Multi-valent Electrolytes  
II. Physico-chemical Studies on the Electrolytic Behavior of Titanium and Cobalt  
(III) Complexes  
**Kuan Pan** 潘貫 Professor
17. Studies on the Organosilicon Compounds  
**Sheng-lieh Liu** 劉盛烈 Professor
18. Studies on Structures and Biological Function of Protein and Polypeptide  
**Tung-bih Lo** 羅銅壁 Professor
19.  $^{20}\text{Ne}(n, \alpha)^{17}\text{O}$  Reaction Induced by 14.1 MeV Neutrons  
**Chia-yi Huang** 黃家裕 Associate Professor

20. Physical Properties of Frozen Solution

**Po-kuen Cheng** 鄭伯昆 Associate Professor

21. Estimation of Parameters in Domain of Study I

**Ing-Tzer Wey** 魏應澤 Associate Professor

(2) Academia Sinica

22. The Study of  $\text{Li}^7(d; \alpha, \alpha)_n$  Reaction Study of  $^{27}(n, d)^{26}\text{Mg}$  Reaction by 14.1 MeV

**Wei-nung Wang** 王唯農 Research Fellow

23. A Study on Ribitol Teichoic Acid from Cell Walls of *Bacillus Subtilis*

**Ngan-shou Wei** 魏岳壽 Research Fellow

(3) National Tsinghua University

24. I. Crystal Structure of Rare Earth  $(\text{VO}_2(\text{TTA})_2\text{DBBP})$

**Chi-hsiang Wang** 王企祥 Professor

25. Vector and Axial Vector Mesons in Broken Chiral  $\text{SU}(3) \otimes \text{SU}(3)$

**Yee-Yen Lee** 李怡嚴 Professor

26. Binding Energies of the  $p$ -Shell  $AA$ -Hypernuclei

**Ching-Tan Chen-Tsai** 陳蔡鏡堂 Professor

27. Chemical Effects of Chromium Organic Compounds Irradiated in the THOR

**Si-jung Yeh** 葉錫溶 Professor

28. Application of Mossbauer Effect to the Study of Recoil Iron in Solids and Solutions

**Hwa-sheng Cheng** 鄭華生 Professor

29. A Study of the Structure of Hypernuclei

**T. Y. Li** 李曾適 Associate Professor

30. Effect of Gamma Radiation on Semiconductor Detectors

**Ming-tao Tang** 唐明道 Associate Professor

31. Reactor Neutron Radiation Effect on Pyrolytic Graphite

**Teh-lin Tseng** 曾德霖 Associate Professor

32. Solid State Plasma

**Chau-chin Wei** 魏朝慶 Associate Professor

33. 左右型動力學研究

**Yin-chun Yang** 楊銀圳 Associate Professor

34. Discrepancy in the Temperature Dependence of the Hyperfine Coupling Constant  $A$  of  $\text{Eu}^{++}$  in  $\text{BaF}_2$

**Shou-yih Wang** 王守益 Associate Professor

## (4) National Chungyang University

35. A Remark on the Asymptotic Behavior of Solutions of Parabolic Equations with Unbounded Coefficients

**Lu-san Chen** 陳錄山

Associate Professor

## (5) Provincial Chengkung University

36. Synone Ring as a Dual Functional Group

**Ming-peng Tien** 田明朋

Professor

## (6) Provincial Institute of Geological Survey

37. A Biostratigraphic Study of the So-called State Formation in Taiwan Based on Smaller Foraminifera: I. Along the East-West Cross Mountain Highway

**Li-Sho Chang** 張麗旭

Senior Specialist

38. Structural Analysis of the Metamorphic Terrain of the Central Range, Taiwan: I. Structural Analysis of the Tananao Schist Terrain by the Calcite Arrow Method

**Tsang-po Yen** 顏滄波

Senior Geologist

## D. BIOLOGICAL, MEDICAL AND AGRICULTURAL SCIENCES

## (1) National Taiwan University

1. Studies on the Nitrogen Fixation of Blue-green Algae Isolated from *Azolla pinnata* R. Br.

**Ching-jang Yu** 于景讓

Professor

2. The Influence of *Anoxic hypoxia* on Intraocular Pressure in Different Types of Laboratory Animals

**Hwai-sze Fang** 方懷時

Professor

3. Studies on Basic Polypeptides Isolated from Cobra Venom: Part I. Identification of Cardiotoxin with Cobramine B, DLF, Toxin  $\tau$  and Cobra Venom Cytotoxin

**Chen-yuan Lee** 李鎮源

Professor

4. A Study of the Effects of Various Drugs on the release of Catecholamines from the Cat Adrenal Gland:

I. The Effects of Polypeptides (*Angiotensin* and *Brady-kinin*)

**Fu-li Lee** 李復禮

Professor

5. Epidemiological Study on Digestive Diseases in Chinese

Report I. Diseases of the Upper Gastrointestinal Tract in 1367 Government Employes of Kaohsiung Municipal Government

**Juei-Low Sung** 宋瑞樓

Professor

6. Report IV. On Problems of Sampling Unit and Its Layout for Crop Trials (I)  
In Inference to Rice  
**Chueh-Ming Wang** 汪厥明 Professor
7. Toxical Mechanism of Mimosine: Inhibition of Mitosis and DNA Synthesis of H.  
Ep-2 Cell by Mimosine and 3, 4-dihydroxypyridine  
**Kuo-Huang Ling** 林國煌 Professor
8. An Electron Microscopic Study on the Transformation of Centrioles in the Rat  
Pinealocyte  
**Huai-san Lin** 林槐三 Professor
9. Some Enzymes in Mung Bean Seedling Infected with *Rhizoctonia solani*  
**Lung-chi Wu** 吳龍溪 Professor
10. A Study on the Life-history and Control of the Coconut Rhinoceros Beetle (*Oryctes*  
*rhinoceros* Linnaeus) in Taiwan  
**Hsi-tao Yih** 易希陶 Professor
11. Studies on the Host-parasite Relationship of *Schistosoma japonicum* in Taiwan  
**Jui-Kuang Chiu** 邱瑞光 Professor
12. Cephalometric Growth Studies of Craniofacial Complex in Chinese: I. Growth  
Changes and Covariations in External and Internal Cranial Bases  
**Yu-Ching Hong** 洪鈺卿 Professor
13. On the Release of LH from the Adenohypophysis in Mature Domestic Duck: The  
Effect of the Oviduct. I. The Nerve and Blood Supply of the Oviduct  
**Robert Chueng-Shyang Ma** 馬春祥 Professor
14. Modulation of Noradrenaline Incorporation by Nerve Activities in the Rat Sub-  
maxillary Gland  
**Chuang-Chiung Chang** 張傳炯 Professor
15. Mechanism of Dehydration in Human Cholera: An Electron-microscopic Study  
**Hai-chin Chen** 陳海清 Professor
16. A Study on the Uses of Potential Units in the Fertility Evaluation of Paddy Soils  
**Tsen-tuo Chen** 陳振鐸 Professor
17. A Study on the Oriental Fruit Fly Attractant in the *Ocimum basilicum*  
**Yuh-lin Chen** 陳玉麟 Professor
18. I. The Compensatory Renal, Hypertrophy of Hypophysectomized Rats with an  
Ectopic Pituitary Graft  
II. Relation of Adenohypophyseal Volume and the Secretory Capacity of Incom-  
plete Hypophysectomized Rats  
**Ming-Tsung Peng** 彭明聰 Professor



19. Studies on the Breeding Behavior of Soybean Hybrid Progenies under Different Conditions and at Different Locations  
**Wen-Tong Tang** 湯文通 Professor
20. A Study on Effect of Antiarrhythmic Agents on Aconitine-induced Cardiac Arrhythmics with Microelectrodes  
**Ting-fei Huang** 黃廷飛 Professor
21. Pollen Grains of Formosan Plants  
**Tseng-chieng Huang** 黃增泉 Professor
22. A Study on Cancerogenic Substance of Moldy Food in Taiwan  
**Ta-Cheng Tung** 董大成 Professor
23. Studies on Chronic Arsenical Poisoning in an Endemic Area along the Southwest Coast of Taiwan  
**Shu Yeh** 葉曙 Professor
24. Rejection of Tumor Transplantation Induced by Immunization with "Baby Taiwan Monkey Strains" of Human Adenovirus Type 12  
**Czau-siung Yang** 楊照雄 Professor
25. Studies on the Relationship between Periarterial and Perivenous Space, and Blood Pressure in Essential Hypertension  
**Yen-Fei Yang** 楊燕飛 Professor
26. The Function of Stimulus—Stimulus Association in Stimulus Response Association  
**Ying-Mao Liu** 劉英茂 Professor
27. Investigation on Distribution of Leptospiral Agglutinin of Domestic Animals in the World  
**Yong-piao Liu** 劉榮標 Professor
28. Studies on Coagulant, Anticoagulant, and Hemorrhagic Principles of Snake Venoms: Part I. Purification and Properties of the Thrombinlike Principle of *Agkistrodon acutus* Venom and Its Comparison with Bovine Thrombin  
**Chao-ho Ouyang** 歐陽兆和 Professor
29. Endocrinological Studies on the Women Using Intrauterine Contraceptive Devices  
**Ping-yen Wei** 魏炳炎 Professor
30. Studies on Milk Clotting Enzymes from Microorganisms: Part I. Screening Tests and the Production of the Enzymes  
**Yuan-Chi Su** 蘇遠志 Professor
31. Phytochemical Study of *Chloranthus glaber*  
**Wen-yah Koo** 顧文霞 Professor
32. Studies on the Mechanism of Anti-tumor Activity of Crystalline Abrin  
**Jung-Yaw Lin** 林榮耀 Associate Professor

33. Studies on Cancer of the Nasopharynx: I. Morbidity and Mortality of Cancer of the Nasopharynx in Taiwan

**Tong-Ming Lin** 林東明

Associate Professor

34. I. Relationships of Nuptiality, Child Mortality, and Attitudes toward Fertility to Actual Fertility

2. Relationship of Birth Interval, Child Mortality, and Preference for Sons Attitude to Actual Fertility

- II. Feasibility Study of Multi-variate Factors Influencing Fertility

**Hsin-ying Wu** 吳新英

Associate Professor

35. Analysis of Gamma Globulin from Rabbit Antisera

**Shiau-Yen Chiu** 居小燕

Associate Professor

36. The Fine Structure of *Parasympathetic paraganglia*: Electron Microscopic, Radioautographic Studies

**Yi-li Chen** 陳以理

Associate Professor

37. Biosystematic Studies on Taiwan Grasses

**Chien-chang Hsu** 許建昌

Associate Professor

38. Cell Fusion Activity of the Ethyl Ether-treated Sendai Virus

**I-Hung Pan** 潘以宏

Associate Professor

39. Morphogenetical Studies on the Callus Originated from Excised Roots of Rice Plants

**Kwan-long Lai** 賴光隆

Associate Professor

40. A Study on the Behavior of Plant Virus in Hosts by Means of Fluorescent Antibody Technique

**Hong-ji Su** 蘇鴻基

Associate Professor

## (2) Academia Sinica

41. In Vitro Cell Culture of Haploid Lines of *Oryzae sativa*

**Hsien-wen Li** 李先聞

Research Fellow

42. Studies on Bacterial Leaf Blight of Rical Plant

**Tsong-teh Kuo** 郭宗德

Research Fellow

43. Biochemical Studies on Some Growth and Differentiation Phenomena

**Jong-Ching Su** 蘇仲卿

Research Fellow

44. Induction of Mutation by Alkylating Mutagen in Rice Plant

**Hsu-chu Wu** 吳旭初

Associate Research Fellow

## (3) Provincial Chunghsing University

45. Soil Microorganisms in Relation to Yield Decline of Ratoon Cane in Taiwan

**Ming-huei Maria Wu** 吳敏慧

Professor

46. Ecological Studies and Chemical Control on the Rice Stem Borer (*Chilo suppressalis* Walker) in Central Part of Taiwan

**Ku-sheng Kung** 貢穀紳 Professor

47. Survey and Classification of Longicorn Beetles of Taiwan

**Shu-chen Chang** 張書忱 Professor

48. Electron Microscopic Observations of Plant Parasitic *Mycoplasma* in Taiwan

**Moh-jih Chen** 陳脈紀 Professor

49. Studies on Physiology of Parasitism

**Mong-shang Kuo** 郭孟祥 Professor

#### (4) National Defense Medical Center

50. Cardiac Glycosides, Saponin and Some Steroid Hormones on the Viscosity of Cardiac Muscle Hormogenate

**Chu Li** 李 鉅 Professor

51. The Mechanism of Heat-induced Sex Transformation in Frog Tadpoles

**Chih-Yun Hsu** 許織雲 Professor

52. Studies on the Regulation of Hepatic Enzymes of Methionine Metabolism

**Fu Pan** 潘 福 Professor

53. Immunofluorescent and Histologic Study of Experimental Viral Nephritis

**Kang-chu Chu** 朱康初 Associate Professor

#### (5) National Taiwan Normal University

54. Effect of Yeast RNA on Muscular Protein and Growth in Fresh Water Fish

**Tuan-sheng Miao** 繆端生 Professor

#### (6) Taiwan Agricultural Experiment Station

55. Studies on Mushroom Strain Selection and Breeding

**Kai-jen Hu** 胡開仁 Professor

## II. PROFESSORS AND ASSOCIATE PROFESSORS OF RESEARCH CENTERS RECEIVING RESEARCH GRANTS

### A. ENGINEERING RESEARCH CENTER

1. Electromagnetic Geophysical Exploration

**Ting-Shiun Wen** 溫鼎勳

Professor, Engineering College, National  
Chiaotung University

2. Design of One-pass Assembler for a Symbolic Programming System

**Chi-Chang Lee** 李其昌

Associate Professor, Engineering Col-  
lege, National Chiaotung University

### B. PHYSICS RESEARCH CENTER

3. Investigation of  $T=0$  Excited States of  ${}^4\text{He}$  Using Three-particle Reactions

**Er-Kang Lin** 林爾康

Professor, National Tsinghua University  
and Academia Sinica

4. I. Design and Construction of a 7-m Vacuum UV Grating Spectrograph (cont'd)  
II. Experimental Study on the ZnII and ZnIII in the IR & VUV

**Po-chuan Tsui** 崔伯銓

Associate Professor, National Taiwan  
University

5. A Study on the Thin Film of Semi-metal and Semi-conductor

**Yu-tung Yang** 楊毓東

Associate Professor, National Tsinghua  
University

### C. BIOLOGY RESEARCH CENTER

6. Biochemical Mechanism of Root-knot Nematode-induced Gall Formation: I. Roles of Plant Growth Regulators in Gall Formation

**Chao-Hsiung Huang** 黃炤雄

Associate Research Fellow, Academia  
Sinica

7. A Study on the Spotted Mackerel Resources of Taiwan

**Kuen-hsiung Chang** 張崑雄

Associate Research Fellow, Academia  
Sinica

## II. PROFESSORS AND ASSOCIATE PROFESSORS OF RESEARCH CENTERS RECEIVING RESEARCH GRANTS

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Sinica

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II. Experimental Study on the ZnII and ZnIII in the IR & VUV

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5. A Study on the Thin Film of Semi-metal and Semi-conductor

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**Chao-Hsiung Huang** 黃炤雄

Associate Research Fellow, Academia  
Sinica

7. A Study on the Spotted Mackerel Resources of Taiwan

**Kuen-hsiung Chang** 張崑雄

Associate Research Fellow, Academia  
Sinica

## D. MATHEMATICS RESEARCH CENTER

8. Comparison between Theories of Analytical Numbers and Algebraic Numbers  
**Tao-ning Hsu** 徐道寧 Professor, National Tsinghua University
9. A Study of Axiomatic Set Theory and Model Theory (Cont'd)  
**Shih-Chao Liu** 劉世超 Research Fellow, Academia Sinica
10. On Generalized Fourier Series  
**Lung-Chi Miao** 繆龍驥 Professor, National Taiwan University

## E. CHEMISTRY RESEARCH CENTER

11. Studies on the Synthesis and Application of Rare Earth Compounds  
**Tiao-Hsu Chang** 張茗旭 Professor, National Taiwan University
12. Clay Minerals Derived from Andesite  
**Kun-Huang Houng** 洪崑煌 Research Fellow, Academia Sinica
13. A Study on Synthetic Organic Photochemistry  
**Lung-Ching Lin** 林隆清 Professor, National Taiwan University
14. A Study on the Extractive Constituents from the Wood of *Libocedrus formosana* Florin  
**Yu-Shia Cheng** 鄭玉瑕 Associate Professor, National Taiwan University

## D. MATHEMATICS RESEARCH CENTER

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**Tao-ning Hsu** 徐道寧 Professor, National Tsinghua University
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**Shih-Chao Liu** 劉世超 Research Fellow, Academia Sinica
10. On Generalized Fourier Series  
**Lung-Chi Miao** 繆龍驥 Professor, National Taiwan University

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**Kun-Huang Houng** 洪崑煌 Research Fellow, Academia Sinica
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**Lung-Ching Lin** 林隆清 Professor, National Taiwan University
14. A Study on the Extractive Constituents from the Wood of *Libocedrus formosana* Florin  
**Yu-Shia Cheng** 鄭玉瑕 Associate Professor, National Taiwan University



### III. RESEARCH GRANTS TO UNIVERSITIES, COLLEGES, AND OTHER INSTITUTIONS

#### A. NATURAL AND MATHEMATICAL SCIENCES

##### (1) Academia Sinica

###### Class B

1. A study on the Hydrolysis of Carbobenzoxyglycyl-L-phenylalanine by Carboxypeptidase from *Mucor*  
**Shuh-Ming Chang** 張曙明 Assistant Research Fellow
2. Preparation of  $\alpha$ -Glycerophosphoric Acid and Determination of Activity of Phosphatase in Yeast  
**Jy-Shih Wang** 王之士 Assistant Research Fellow
3. Decarboxylation of Pyruvic Acid by Yeast  
**Shu-Chen Sung** 宋淑貞 Assistant Research Fellow
4. Synthesis of Para-Chloromercuribenzoid Acid and Its Reaction with Sulfhydryl Groups of Egg Albumin  
**Hui-yin Yuan** 阮慧英 Assistant Research Fellow
5. The Behaviors of Thin Bi Films  
**Nai-chung Liang** 梁乃崇 Assistant Research Fellow

##### (2) National Taiwan University

###### Class A

6. Theoretical Deduction of the Band Energy  
**Der-Ruenn Su** 蘇德潤 Associate Professor
7. Geology of Dickite and Nacrite Clays from Taiwan  
**Pei-yuan Chen** 陳培源 Professor
8. Illites from Taiwan. II. Illites from Pliocene Sedimentary Rocks  
**Yuan Wang** 王源 Professor
9. The Mercury Contents in Stream Sediments near Pinglin, Taiwan  
**Li-Ping Tan** 譚立平 Associate Professor
10. A Geochemical Study of Local Magnetite  
**Chang-Ching Youh** 郁昌經 Associate Professor

11. On the Distribution of Dissolved Oxygen in Sea Water in the Kuroshio Area  
**Tsu-You Chu** 朱祖祐 Professor
12. The Physical Geography Foundation of Land Use in Luchiang Plain  
**Lu-ping Lee** 李鹿苹 Professor
13. Investigation of Calibrating Methods of Meteorological Instruments  
**Ken-Chuan Chou** 周根泉 Professor
14. Geographical Environments to the Development of Animal Husbandry Industry in Taiwan  
**Hung-wen Wang** 王洪文 Associate Professor

#### **Class B**

15. Design and Construction of a F-M Vacuum UV Grating Spectrograph (cont'd) Experimental Study on the Ionized Zn II and Zn III in the IR & VUV  
**Hsiou-er Lin** 林秀娥 Lecturer
16. Equilibrium Dialysis of Egg Albumin against Zinc  
**Chi-hua Hsu** 徐啓華 Lecturer

#### **Class C**

17. Design and Construction of a F-M Vacuum Grating Spectrograph (cont'd) Experimental Study on the Ionized Zn II & Zn III in the IR & VUV  
**Ching-yen Li** 李清彥 Assistant

### (3) **National Tsinghua University**

#### **Class A**

18. Chemical Effects of Zinc Chelate Complexes Following Neutron Irradiation  
**Mo-Hsiung Yang** 楊末雄 Associate Professor
19. Synthesis of Carbon-14 Labelled Aspirin  
**Teng-yueh Chen** 陳登嶽 Associate Professor

#### **Class B**

20. Absolute Thermal Neutron Flux Measurement by Using Nonperturbin Foils  
**Chuan-ying Wang** 王傳鏐 Lecturer
21. Determination of Some Trace Metal Cations in Natural Waters Concentrated by Column Chromatography and Resolved by Thin-layer Chromatography  
**Chou-Chuan Chen** 陳卓銓 Lecturer
22. A Study on Alpha Spectroscopy  
**Ying-Chieh Chang** 張英傑 Lecturer
23. Chemical Dosimetry for a Mixed Radiation Field  
**Chao-ming Tsai** 蔡昭明 Lecturer

24. Chemical Effects of  $(n, \alpha)$  Reaction on Molybdenum-Compounds

**Wen-ping Cheng** 鄭文彬

Lecturer

**Class C**

25. Fast Neutron Conversion

**Shih-chien Lin** 林世錢

Assistant

(4) **National Chiaotung University**

**Class C**

26. On Level Set, Continuity and Dini Derivatives of Real Functions

**Tsui-Hwa Yang** 楊翠華

Assistant

(5) **National Taiwan Normal University**

**Class A**

27. I. A New Method for the Determination of Thiocyanates

II. A Study of the Structure of  $(SCN)_x$

**Yu-tsai Peng** 彭育才

Professor

28. A Study of Wind Aloft and Surface Weather over Taiwan

**Yen-Huai Liu** 劉衍淮

Professor

29. A Case Study of Typhoon and Its Relationship to Flood Damages in the Tan Shui Drainage Basin

**Hung-hsi Liu** 劉鴻喜

Professor

30. A Study on the Dye-mud of Rush

**Tsai-tien Shih** 石再添

Associate Professor

31. The Geographical Factors of Land of the Taipei City

**Chun-Hsiang Lin** 林鈞祥

Professor

**Class B**

32. Hot Atom Effects of Uranium Compounds (cont'd)

**Ming-tong Wey** 魏明通

Lecturer

(6) **National Chungyang University**

**Class A**

33. A Study on the Relationship between Total Ozone Amount and That of Sunshine in Taiwan Area

**Yuin-kwei Tai** 戴運軌

Professor

34. Balance of Kinetic Energy in the Atmosphere over East China Sea during Winter

**Shyue-Yih Liao** 廖學益

Professor

**Class B**

35. The Estimate of Rainfall Intensities in Taiwan Area  
**Chun-nan Chi** 紀俊男 Lecturer
36. The Relationship between Auroral Substorms and Plasma Fluxes at the Synchronous Orbit  
**Chun-hung Lin** 林俊宏 Lecturer

**Class C**

37. A Study of Larger Earthquakes Occurring in Northern Taiwan  
**Chen-wei Kao** 高振維 Assistant
38. Ti-amount Contained in Magnetite  
**Jiunn-Shiow Wang** 王俊秀 Assistant

**(7) Provincial Chengkung University****Class A**

39. The Upper Atmosphere of Mars  
**Tung-sheng Chang** 張桐生 Professor
40. Spectrochemical Analysis of Antimony; Spectrochemical Analysis of Bismuth (Spectrochemical Analysis in the Metallurgical Industry, Part VII)  
**Sien-yung Wang** 王先鎔 Professor
41. A Study of the Carbonization and Graphitization of a Variety of the Commercial Carbon Products  
**Kwang-teh Yang** 楊光德 Professor
42. Spectrophotometric Determination and Solvent Extraction of Uranium with Salicylaldoxime  
**Shou-Nan Chen** 陳壽南 Professor
43. Electronic Structure and Spectra of Flavone Series  
**Chi-Hsiung Lin** 林繼雄 Professor
44. A Study on the Bulk and Molecular Interaction of Carboxylic Acids  
**Chen-Shen Chao** 趙承琛 Professor
45. Cation Adsorption of Oxidized Starch  
**Chen-Cheng Wu** 吳振成 Associate Professor

**Class B**

46. Langmuir-Probe Measurement of the Electron Density in a Weakly Ionized Hydrogen Positive-Column Plasma  
**King-Nien Woo** 吳慶年 Lecturer
47. Gamma-ray Damage of Potassium Ferrocyanide  
**Yee-Hsiung Chen** 陳義雄 Lecturer

48. Probability by Digital Computer

**York-Yih Sun** 孫育義

Lecturer

49. The Continuation of the Geometry of Zeros of Polynomials

**Teh-hwah Hwang** 黃德華

Lecturer

**Class C**

50. Paper Chromatographic Separation and Identification of Amino Acids of Leguminous Plants (*Indiofera* and *Aegyptica*)

**Yuh-Ching Kung** 孔玉琴

Assistant

(8) **Provincial Chunghsing University**

**Class A**

51. Comparative Quantitative Determination of Vitamin C and B-Carotene from Papaya at Three Maturation Periods

**Li-Yuan Liu** 劉理遠

Professor

52. Separation of Alkali Earth Metal by Electromigration in a Cation-exchange

**Chung Chang** 張駿

Professor

**Class C**

53. The Central  $X^2$  and Non-central  $X^2$  Distributions

**Samuel I. Su** 蘇義雄

Assistant

(9) **Tunghai University**

**Class A**

54. Potentiometric Titration of Copper Acetate in Glacial Acetic Acid Solutions

**Andrew Teh An Cheng** 鄭得安

Professor

55. Solution and Applications of Higher Order Fibonacci Sequences

**Wan-chen Hsieh** 解萬臣

Professor

(10) **Tamkang College of Arts and Sciences**

**Class A**

56. Abstract of Unbiased Slippage Tests (II)

**Neng-che Yeh** 葉能哲

Professor

57. Two-stage Stratified Sampling, First-stage Sampling with Equal Probability and Second-stage Sampling with Proportion to First Sampling Unit

**Jing-Shing Yao** 姚景星

Professor

**Class B**

58. On the Extension of Continuous Functions

**Leou-nan Hwang** 黃柳男

Lecturer

(11) **Fujen University****Class A**

59. Global Properties of Minimal Surface in
- $E^n$
- and
- $E^3$

**Yi-Ching Yen** 顏一清

Associate Professor

(12) **Tatung College of Engineering****Class A**

60. Direct Numerical Calculation for the Average Density of the States of Nuclei

**Chi-cheng Hung** 洪吉成

Professor

(13) **Taipei Medical College****Class A**

61. Studies on Polyamide Mixed Layer Chromatography

**Hung-Cheh Chiang** 姜宏哲

Professor

62. Studies of Selective Exchange Capacity of Anion Exchange Resin against Anions

**Tong-Jung Hsu** 許東榮

Professor

(14) **Kaohsiung Medical College****Class A**

63. A Chemical Investigation of Native Herbs in Taiwan: Part III: A Study on the Chemical Constituents of
- Fagara Nitida Roxb*

**Ren-tse Wang** 王仁澤

Professor

(15) **Provincial Pingtung Junior College of Agriculture****Class C**

64. A Study on the Rainfall and Rainy Days at Pingtung of Taiwan

**Sen-Hsiung Hsu** 徐森雄

Assistant

(16) **Chungcheng College of Sciences and Engineering****Class B**

65. The Solar Radiation and the Upper Atmosphere

**Hung-Teh Liu** 劉洪德

Instructor

(17) **Taiwan Provincial Institute of Geological Survey****Class A**

66. Geology of the Area between the Pachangchi and the Tsengwenchi, Southwestern Taiwan

**Wen-Pu Keng** 耿文溥

Senior Geologist

67. The Structural Analysis of the Southern Part of the Hsuehshan Range, Taiwan  
**Shin-Fu Tsan** 詹新甫 Senior Geologist

(18) **Taiwan Provincial Hsinchu Junior College for Teachers**

**Class A**

68. A Study on Hydrogeography in Hsinchu  
**Chi-shiang Tang** 唐奇祥 Associate Professor

(19) **Ming Hsing Junior College of Technology**

**Class A**

69. Oxidation of  $\alpha$ -picoline  
**Phouti Sou** 蘇蒴第 Professor

(20) **Chinese Air Force Academy**

**Class A**

70. The Structure and Characteristics of the Jet Stream over Taiwan  
**Pao-Kang Wan** 萬寶康 Deputy Dean of Studies

(21) **Meteorological Center, Chinese Air Force**

**Class B**

71. Certain Properties of Cyclones in China Region during Cold Season  
**Shih-Ting Wang** 王時鼎 Technologist
72. A Study on the Frontal Activities in China Region by Making Use of the Weather  
**Chia-Chung Yu** 俞家忠 Technologist

(22) **Research Laboratory, Taiwan Tobacco & Wine Monopoly Bureau**

**Class B**

73. A Study on Influence of  $\alpha$ -irradiation on Some Fatty Acid Esters in Distilled Rice Wine  
**Chieh-Song Fang** 方之松 Technician

(23) **Union Mineral Research Institute, Ministry of Economic Affairs**

**Class B**

74. A Study of the Mineral Paragenesis of Some Cupriferous Iron Sulfide Deposits in Eastern Taiwan  
**Chi-Hsien Chen** 陳志賢 Technician

**(24) Taiwan Provincial Weather Bureau****Class A**

75. A Study on the Relation between Total Ozone Amount and Global Radiation over Taiwan Area  
**Shih-Chung Lu** 呂世宗 Senior Specialist
76. Intensity-Frequency Relation for Felt Earthquakes in Taiwan  
**Ming-Tung Hsu** 徐明同 Senior Specialist
77. A Study of the Summer Rainfall in Taiwan and Its Relation to Typhoons  
**Yuan-Heng Wei** 魏元恒 Senior Specialist
78. A Study of Medium-Range Low Temperature Forecasting in Taiwan Area  
**Chin-Huai Hsu** 徐晉淮 Senior Specialist
79. On the Use of Weather Radar to the Weather Forecasting: Analysis of the Radar Echoes or Thunderstorms  
**Ruey-Shan Lin** 林瑞山 Senior Specialist
80. Air Temperature Climatology of High Mountain in Taiwan  
**Ke-Hsun Chi** 戚啓勳 Senior Specialist

**Class B**

81. A Study on the Thunderstorm Forecasting in Taiwan Area  
**Pang-Chie Cheng** 鄭邦傑 Specialist
82. Utilization of Satellite Pictures in Analysis and Forecasting of Cyclogenesis over South China and East China Sea  
**Pao-Chin Hsu** 徐寶箴 Specialist

**(25) Bureau of Commodity Inspection & Quarantine****Class A**

85. A Study on the Activation of Taiwan Acid Clay  
**Wei-Hsieng Huang** 黃維賢 Senior Specialist
84. The Essential Oil of Malabar Lemongrass Stem  
**Ping-Hsien Yeh** 葉炳賢

**(26) Taiwan Sugar Experiment Station****Class A**

85. Studies on the Extraction of Protein from Defatted Soybean Meal by Cellulase III. The Effect on Hydrases Other than Cellulase in T. V. Cultural Filtrate during Extraction  
**Chung-sung Wu** 吳春生 Industrial Chemical Engineer



### Class B

86. Studies on the Semi-automation of Sugar Analysis. Part I. Automatic Determination of Starch in Sugar: Part II. Automatic Determination of Sulfur Dioxide in White Sugar

**Wen-ching Cheng** 鄭文清

Chemical Technologist

### Class C

87. Studies on the Extraction of Protein from Cane Leaves by Cellulase  
I. Some Characteristic Properties of Cane Leaves before and after Treatment

**Yun-tang Chuang** 莊允當

Assistant Technologist

## (27) Chinese Petroleum Corporation

### Class A

88. A Preliminary Study of the Stratigraphy and Sedimentation of the Mudstones in the Tainan Area, Southern Taiwan

**Jui-tung Chou** 周瑞燾

Geologist

89. Seismic Study of the Hsinchu Area, Taiwan

**Pao-Tsung Hsiao** 蕭寶宗

Geologist

90. Photogeologic Study of the Peikang-Choshuichi Coastal Plain, Taiwan

**S. C. Sun** 孫習之

Geologist

91. Stratigraphic Relation between the Talu Shale and the Peiliao Formation in Northern Taiwan

**Cheng-Hui Tang** 湯振輝

Geologist

92. Analysis of Folds in Regions of the Foothills and the Tablelands of Northwestern Taiwan

**Hua-teng Chiu** 邱華燈

Geologist

93. Subsurface Geologic Study of the Taichung Basin, Taiwan

**Stanley S. L. Chang** 張錫齡

Geologist

94. The intensities of Natural Gamma-ray Radiation from Various Geological Formation in the Tiehchenshan Gas Field

**Yi-Chien Chan** 詹益謙

Deputy Division Chief

95. A Study on the Dynamic Correction and Seismic Velocity Functions in Chia-yi

**Hsin-hsi Liu** 劉幸細

Geologist

96. Geology and Gravity Anomalies of the Niushan Anticline, Tainan

**Shih-Hsiung Hsieh** 謝世雄

Geologist

### Class B

97. Advanced Study on the Subsurface Geology of the Chinshui Gas Field, Miaoli, Taiwan

**Ming-Yi Kuan** 關明義

Associate Geologist

98. Petrographic Study of the Sandstones of the Chutouchi Structure, Tainan, Taiwan  
**Fu-Tai Wu** 吳福泰 Associate Geologist
99. A Study of Seismic Data Processing Techniques  
**Jui-chi Wu** 吳瑞智 Associate Geologist
100. A Study on C. D. P. Seismic Records in Chia-I Area, Taiwan  
**D. M. Wu** 吳多明 Associate Geologist
101. Seismic Study of the Paishatun Structure, Miaoli, Taiwan  
**Jui-Shiang Chen** 陳瑞祥 Associate Geologist
102. Seismic Study of the Chaochou Structure, Pingtung, Taiwan  
**Hsing-chun Chiang** 江新春 Associate Geologist
103. Gravity Study of the Pakuashan Structure, Changhua, Taiwan  
**Chin-Cheng Hu** 胡錦城 Associate Geologist

#### **Class C**

104. Frequency Analysis and Its Practical Applications in Magnetic Interpretations  
 I. Gravity Study of the Hsinchu Area, Taiwan  
**Wu-Shiung Chen** 陳武雄 Assistant Geologist
105. A Study on Seismic Records by C. D. P. Method on Tainan Structure, Taiwan  
**Wei-kuang Wang** 王偉光 Assistant Geologist
106. A Study of the CDP Seismic Data of Tienchung Structure, Changhua, Taiwan  
**Fu-ching Su** 蘇福欽 Assistant Geologist
107. A Study on the C. D. P. Seismic Records of Chungchou Structure  
**Jien-Chiu Lo** 駱劍秋 Assistant Geologist

## **B. BIOLOGICAL, MEDICAL, AND AGRICULTURAL SCIENCES**

### **(1) National Taiwan University**

#### **Class A**

1. A study of Children's Problem Solving on the Discovery of a Principle  
**Cheng-ping Chu** 初正平 Associate Professor
2. Homotransplantation of the Liver: Studies on Canine Orthotopic Homotransplantation  
**Tien-yu Lin** 林天祐 Professor
3. Neonatal Hypoglycemia--Blood Glucose Levels in the Chinese Newborn Infants during the First Week of Life  
**Ting-Chien Lee** 李廷堅 Professor

4. Decomposition and Oxidation of Night Soil by Algae and Its Utility  
**Edmund L. Fitzgerald** 江 建                      Professor
5. Relationship between Endogenous Nitrogen and Basal Metabolism in Chinese Young Men  
**Po-Chao Huang** 黃伯超                      Professor
6. Epidemiological and Clinical Characteristics of Lung Cancer (*Bronchogenic carcinoma*) in Taiwan  
**Sze-piao Yang** 楊思標                      Professor
7. Corticospinal Tract of Taiwanese Pangolin  
**Tsong-ming Tseng** 鄭聰明                      Associate Professor
8. Alterations in Cardiac Contractility or Rhythmicity following the Algesic Agent-induced Pain  
**Hwa-Mau Liu** 劉華茂                      Associate Professor
9. Evaluation of Diagnostic Usefulness of Ultrasonic Motion Sensor (UMS) in Obstetrical Practice  
**Hsi-Yao Chen** 陳哲堯                      Associate Professor
10. Studies on Androgen Metabolism in Human Placenta  
**Pei-Chuan Ouyang** 歐陽培銓                      Associate Professor
11. Effects of Cardiovascular Drugs on Pulmonary Circulation in Dogs with *Arterio-venous Fistula*  
**Kuang-Yung Hsu** 許光鏞                      Associate Professor
12. Homotransplantation of the Kidney: The Study on the Role of ALS (*Antilymphocyte serum*)  
**Chnn-Jean Lee** 李俊仁                      Associate Professor
13. Psychiatric Genetics Researches: IV. Mode of Inheritance of *Schizophrenia* and Manic Depression  
**Ming-tso Tsuang** 莊明哲                      Associate Professor
14. A Comparative Study between Excellent-achievers, Average-achievers, and Under-achievers among the First Grader Boys in an Urban Public Junior Middle School  
**Cheng-chin Hsu** 徐澄清                      Associate Professor
15. Prevalence of Rheumatic Heart Disease in School Children in Taiwan  
**Wen-ping Tseng** 曾文賓                      Associate Professor
16. A Survey on the Dietary Intake of Pregnant Mothers in Taipei City  
**Tsung-hsien Wu** 吳宗賢                      Associate Professor
17. Pulmonary Diffusion Study: Effect of the Postural Change upon the Distribution of Diffusion in the Lung  
**Min-Chien Wu** 吳敏鑑                      Associate Professor

18. Comparative Studies on Japanese Encephalitis Virus Strains Isolated in Taiwan:  
III. Production of Interferon  
**Jieng-Lung Liu** 劉建榮 Associate Professor
19. Studies on Preparation of Volume Tablets of Important Commercial Forest Trees in Taiwan by Regression Analysis Method—and Developing Computer Programs for Calculation of Tree Volumes and Analysis of Regression Equations  
**Yong-Chi Yang** 楊榮啓 Professor
20. A Study on the Life Cycle of *Toxocara canis*  
**Yung-chi Lee** 李永基 Professor
21. Studies on the Transformation Dynamics of the Soil Organic Phosphorus  
**Hong-chi Lin** 林鴻洪 Professor
22. A Research on the Duration of the Fertilizing Eggs of Chickens by Artificial Insemination  
**Teng-Yuan Lee** 李登元 Professor
23. A Study on the Combined Analysis of Groups of Experimental Data from Confounding Designs  
**Shu-fan Yeh** 葉樹藩 Professor
24. The Study of Leaf-spot Disease Associated with Rice Suffocating  
**Chi-Chang Chen** 陳其昌 Professor
25. Studies on the Heritability of New Varieties of Rice Bred in Taiwan  
**Lu-Chih Chang** 張魯智 Professor
26. Comparative Studies on the Saccharogenic Activity of Amylases in Molds, Bacteria and Malts  
**Peh-Wen Liu** 劉伯文 Professor
27. Effects of NPK Concentrations and pH Values on the Development of Slash Pine Seedlings  
**Tze-ting Wang** 王子定 Professor
28. Effect of Lipid Composition on the Amylogram of Rice Powder  
**Po-Tung Hsieh** 謝伯東 Professor
29. Studies on the Formation Mechanism of Ethylene-oxide Dicarboxylic Acid (E.O.D.A.) Produced by *Aspergillus fumigatus*  
**Yu-Shih Chen** 陳幼石 Professor
30. The Effect of NOR-androsthenolone, Potassium Iodide, and Amine Acid on the Chicken Embryo and the Hatched Chicks  
**Chang-hwei Yang** 楊昌輝 Professor
31. Clay Minerology and Related Chemical Properties of Podzolic Soil in Taiwan  
**Jong-Min Chang** 張仲民 Professor

32. Effect of Controlling Pectinesterase Activity upon the Texture of Canned Bananas  
**Yung-Chuan Huang** 黃永傳 Professor
33. Studies on the Influences of Magnetic Field on the Metabolism of Germinating Seed  
**Hon-Kai Ho** 何芳陔 Professor
34. A Cytogenetic Study of B-chromosome in *Sorghum Nitidum* and *Paris Quadrifolia* L. Var. Obovata  
**Chung-pen Pi** 畢中本 Professor
35. Relation of Plant Growth Regulators to Bud Rest in Deciduous Fruit Trees  
**Yeou-der Kang** 康有德 Professor
36. The Effect of Ethylene of Low Concentrations on the Ripening of Taiwan-grown Bananas  
**Min-Nan Chiang** 蔣明南 Professor
37. Exocortis on Tankan (*Citrus tankan* Hay.)  
**Pu Ling** 林 樸 Professor
38. The Direct Effect of ACTH on the Gonads of Sexually Mature Animals  
**Pei-Yuang Chi** 季培元 Associate Professor
39. Studies on the Distribution of Functional Root System of *Musa sapientum* L. in Taiwan  
**Yu-yuan Yeh** 葉育元 Associate Professor
40. Morphological Studies on the Flowers and Fruits of the Genus *Quercus* in Taiwan  
**Jih-Ching Liao** 廖日京 Associate Professor
41. Studies on the Projection of Future Demand for Timber Products in Taiwan  
**Der-Chuan Wang** 王德春 Associate Professor
42. A Study on the Extraction of Xylan from Rice Straw  
**Chien-Tze Yang** 楊建澤 Associate Professor
43. The Clinical Diagnostic Value of Cytocidal Action of Elatericin and Colchichine *in vitro* on Lymphocytes of Bovine Lymphocytic Leukemia  
**Yong-shau Shen** 沈永紹 Associate Professor
44. Pathogenesis of Anemia Produced by Infection with Bovine Theilerial Parasite Isolated in Taiwan  
**Cheng-Hung Chang** 張政宏 Associate Professor

#### **Class B**

45. The Effects of Yeast RHA on the Early Development of *Rana catesheiana* in Taiwan  
**Dou-mong Hau** 郝道猛 Lecturer

- ### Class C

- |  |                          |           |
|--|--------------------------|-----------|
| 57. Studies on the Supplemental Effect of Sweet Potato Protein upon the Wheat Flour Protein and Rice Protein | <b>Chin-tou Sheu</b> 許金士 | Assistant |
| 58. Studies on the Neutron Activation Analysis of Inorganic Minor Elements in Plants                         | <b>Hong-huei Lai</b> 賴宏輝 | Assistant |
| 59. A Study on the Economic Use of Irrigation Water in Kang-shang Irrigation Region                          | <b>Ming-Tang Wu</b> 吳銘塘  | Assistant |

60. Flowering in Radishes as Influenced by Seed Vernalization  
**Neen Lee** 李 晖 Assistant
61. The Purification and Specificity of Glucosamine Synthetase in the Bamboo Shoots  
**Hsien-Yi Sung** 宋賢一 Assistant
62. Diallel Crosses between Cultivated Varieties in Soybeans  
**Cheng-ming Chang** 張正敏 Assistant
63. The Effects of Varying the Length of Depletion Period on the Determination of Biological Value for Adult Rats  
**Yuh-Chi Tsai** 蔡玉吉 Assistant
64. A Study on Improved Methods for Testing Bacteriuria  
**Shen-wu Ho** 何憲武 Assistant
65. The Effect of Carboxypeptidase A Digestion of Abrin on Its Antifumor Activity  
**Lee-tzu Lin** 林麗姿 Assistant
66. Cytoplasmic Fusion Induced by HVJ in Poliovirus Infected Cells  
**Seng-tien Chung** 鍾森田 Assistant
67. A Study on the New Method to Decide the Harvesting Time by pH-Value and Assay the Quality of Algae by COD  
**Fung-Chang Sung** 宋鴻樟 Assistant
68. A Study of Nonsense Items and Their Association Values Based on Chinese Phonetic Alphabet  
**Sin-chih Lin** 林心智 Assistant

## (2) National Tsinghua University

### Class A

69. The Preparation of 2-aminoisobutyric Acid-1-C<sup>14</sup> and 1-aminocyclopentane-1-carboxylic Acid-1-C by Strecker  $\alpha$ -amino Acid Synthesis  
**Kung-ku Li** 李功固 Associate Professor

## (3) National Taiwan Normal University

### Class A

70. An Experimental Test of the Hypothesis of Spontaneous Recovery in Negative Transfer of Learning  
**Chun-hsing Chang** 張春興 Professor

### Class C

71. A Study on the Radiation Effects to the Growth of the Soybean  
**Su-jen Chen** 陳素貞 Assistant

## (4) Provincial Chungsing University

## Class A

72. The Role of Vitamins and Micronutrient Elements in the Nutrition of the Excised Embryo of Rice  
**Shi-Tao Yih** 易希道 Professor
73. Studies on the Fern Genus *Microlepia* in Taiwan  
**Wang-chuan Shieh** 謝萬權 Associate Professor
74. The Studies on the Comparison of the Effects of Improved Woods Treated with Urea and Phenolic Resins  
**Kun-fu Liao** 廖坤福 Associate Professor
75. Comparative Studies on the Preparation of Volume Tables  
**Shen-Hsiao Liu** 劉慎孝 Professor
76. Comparative Anatomy of the Leaves Fagaceae in Taiwan: I. Collecting the Specimens  
**Chuen-shiue Li** 李春序 Associate Professor
77. The Design and Use of Studies Instruments for Forestry Research  
**Shou-cheng Lin** 林守誠 Associate Professor
78. Physiological Studies on the Quality Improvement of Banana in Taiwan  
**Ching-yih Chen** 陳清義 Professor
79. Studies on the Trisomics of Rice in Relation to Linkage Analysis: II. Tests of Nitrogen Response and Resistance to Disease  
**Chao-hwa Hu** 胡兆華 Professor
80. The Study of Black Heart Disease of the Pineapple Fruits  
**Shou-kung Sun** 張守恭 Professor
81. A Study of the Sporulation of *Phytophthora* Species  
**Ta-wu Chen** 陳大武 Professor
82. Experiment on the Reforestation of Taiwan Red Pine by Direct Seeding in Grassland  
**Cheng-tung Chen** 陳振東 Professor

## Class B

83. A Study on the Vegetative Propagation of China-fir: II. Experiment on the Propagation of Unevenage Sucker Cuttings  
**Chu-po Ho** 賀主伯 Division Chief
84. Physiological Studies on the Water Relation of Important Forest Trees in Taiwan: I. A Study on the Water Absorption Characteristics of Formosa Alder, China-berry Trees, Chinese Elms and Formosan Ash Seedlings  
**Chun-Te Chang** 張峻德 Lecturer



85. The Culturing of Rice-Root Nematode, *Hirschmanniella oryzae* (cont'd)  
**Yu-Yao Lin** 林奕耀 Lecturer
86. The Application of Grafting of Forest Trees for Breeding  
**Yung-Kuen Fang** 方榮坤 Lecturer
87. A Chemotaxonomic Study of the Genus *Pteris* of Taiwan  
**Shih-chin Sung** 宋世謹 Lecturer
88. Comparison of Vitamin A and Riboflavin Content in Fresh and Preserved Eggs  
**Shu-hua Chen** 陳淑華 Lecturer
89. Effects of an Earliness Gene on Various Genetic Background in Rice  
**Kuo-Hai Tsai** 蔡國海 Technician
90. Formation of Glutamic Acid from Acetic Acid by Microorganism: Part III. Effects of the Cultural Conditions on Glutamic Acid Formation  
**Chien-Jem Chiou** 邱健人 Lecturer
91. Genetic Analysis of the Linkage Intensities, Heritability and Genetic Correlation between Dwarf Mutant and Cultivated Rice  
**Cheng-chang Li** 李成章 Lecturer
92. The Response of Rice to Wollastonite Powder  
**Ying-Po Wang** 王銀波 Lecturer

#### Class C

93. Effect of Lime and Molybdenum on the Yield of Siratro on Lateritic Soil  
**Chao-Nan Tang** 湯兆南 Assistant

### (5) Tunghai University

#### Class A

94. Moss Floristic Relationships between Botel Tobago and the Philippines and Formosa  
**Chung-k'uei Wang** 王忠魁 Professor
95. Laboratory Colonization of the Biting Midges (*Diptera: Ceratopogonidae*)  
**Wesley K. C. Sun** 孫克勤 Professor

### (6) Taipei Medical College

#### Class A

96. Studies on the Constituents of Antitumor Plants on the Constituents of *Anona squamosa* L.  
**Tsang-Hsiung Yang** 楊藏雄 Professor
97. Studies on the Vasodilator Effective Compounds of Plants in Taiwan: I. On the Active Components of the Roots of Citrus Genus  
**Kun-ying Yen** 顏焜熒 Professor

98. Interruption of Pregnancy in the Rabbit by Administration of Copper Sulfate

**Wen-Hsun Yang** 楊文勳

Professor

#### Class B

99. A Study on the Fluorescent Metabolites Produced by *Asp. flavius*

**Jung-teh Lo** 羅榮德

Lecturer

#### Class C

100. Studies on the Alkaloids of Loti Embryo (III)

**Chi-ming Chen** 陳繼明

Assistant

101. Comparison of Spasmolytic Action between *Ligusticum wallichii* Franch and *Cnidium officinale* Makino

**Wen-chang Ko** 柯文昌

Assistant

### (7) Kaohsiung Medical College

#### Class A

102. The Position of Disulfide Bonds in Cobrotoxin

**Chen-Chung Yang** 楊振忠

Professor

103. Immunological Studies on Repeated Injections of Heterogeneous Spleen Cells

**Zuey-Shin Hsu** 許瑞信

Associate Professor

104. Studies on the Alkaloids of Formosan Lauraceous Plants: Alkaloids of *Lindera oldhamii* Hemsl. and *Neolitsea parvigemma* (Hay.) Kanehira et Sasaki

**Sheng-Teh Lu** 盧盛德

Professor

### (8) Provincial Chia-yi Junior College of Agriculture

#### Class A

105. Effects of Growing Condition in the Second Crop on Variability and Correlation of Certain Important Agronomic Characters on the  $F_2$  Progenies of Differential Cross Combination of Rice

**Chung-Mao Lin** 林中茂

Associate Professor

#### Class B

106. Studies on the *Asclepiadace* of Taiwan

**Fu-yuan Lu** 呂福源

Lecturer

### (9) Provincial Pingtung Junior College of Agriculture

#### Class A

107. Studies on the Method for Developing of Form Factor, Taper Curve and Volume Tables with Integrated System of Equations

**Pao-lin Yang** 楊寶霖

Associate Professor

108. The Investigation on *Salmonellae* in Animal Meals  
**Ching-Mu Cheng** 鄭清木 Professor

109. The *Lauroideae* (*Lauraceae*) of Taiwan  
**Ching-en Chang** 張慶恩 Professor

**Class B**

110. Effects of Different Amount of Phosphoric Fertilizer on the Growth and Mineral Nutrient Concentration in the Foliage of Taiwan Acacia (*Acacia confusa Merr*)  
**Chang-yi Chiu** 邱創益 Lecturer

**Class C**

111. Serological Studies on *Pasteurella multocida* Isolated in Taiwan  
**Chao-Fu Chang** 張照夫 Assistant

(10) **Provincial Livestock Laboratory**

**Class C**

112. Studies on Deep-freezing of Boar Semen  
**Yu-hsin Wu** 吳有信 Technical Assistant

(11) **National Defense Medical Center**

**Class A**

113. Coca Tissue Culture: Its Growth and Biosynthesis  
**Chien-Kuan Chang** 張鍵官 Associate Professor
114. Effect of Administration of Estradiol on the Keratinization of the Interdental Epithelium of Rats  
**Kwai-Wang Shyu** 徐奎望 Associate Professor

**Class B**

115. The Comparative Study of the Metabolism of Methionine  
**Lien Shou** 壽廉 Lecturer
116. The Effect of Exogenous Skin RNA on Hair Growth  
**Chin-Yuan Chiou** 邱欽元 Lecturer
117. The Effect of Vagotomy in Antidiuretic Hormone Release during Dehydration  
**Li-ren Chang** 張立人 Lecturer
118. Cellular Response in Skin Delayed Hypersensitivity  
**Wei-chung Chou** 周維忠 Lecturer
119. Importance of Myocardial Ischemia to Trigger the Vagal Escape Mechanism  
**Jon-son Kuo** 郭重雄 Lecturer
120. The Effect of Exogenous RNA on Uteri of Immature Mice  
**Shih-Fang Yang** 楊世芳 Lecturer

**Class C**

121. A Study of the Physical and Psychological Influence on Free Fatty Acid Metabolism  
**Guo-wuu Wang** 王國武 Assistant
122. The Effect of Medullary Stimulation on Plasma Free Fatty Acid in the Cat  
**Hsien-Kai Li** 李賢鎧 Assistant
123. A Study of Accidents in Ming-Chuan Primary School of Taipei City  
**Kai-Yuan Tan** 譚開元 Assistant
124. A study *in vitro* of the Binding of Aflotoxins B<sub>1</sub> and G<sub>1</sub> to Human Serum Proteins  
 by Using <sup>14</sup>C-labelled Pure Aflotoxins  
**Hsu-sheng Li** 李旭生 Assistant

**(12) Taiwan Serum & Vaccine Laboratory****Class A**

125. The Extraction of Maemagglutination Antigen (HAA) of Arboviruses, Particularly Japanese Encephalitis Virus (JEV) by the Use of Tween 80 and Ether  
**Chien-tao Huang** 黃謙道 Associate Director
126. Selection of Vaccinia- Virus Strain & Its Calf-adaptation  
**Shu-tao Hsu** 許書刀 Director

**(13) The Institute of Fishery Biology under the Joint Administration of Ministry of Economic Affairs and National Taiwan University****Class B**

127. Variation of Relation between the Environmental Conditions and the Catch of Grey Mullet in Taiwan  
**Ih-hsiu Tung** 童逸修 Senior Technician

**(14) Provincial Maternal and Child Health Institute****Class A**

128. The Study on the Causes of Death of the People in Taiwan: Part III. The Deaths of Tetanus among Children  
**Kuang-Yu Fan** 范光宇 Director

**(15) Tainan District Agricultural Improvement Station****Class B**

129. Studies on the Downy Mildew of Corn in Taiwan: I. Effect of Temperature on the Time Necessary for Infection  
**Shin-Chi Chang** 張新吉 Technician and Director

# (16) Taiwan Fertilizer Company

## Class A

130. A Research on the Preparation, Application and Effect of the Urea-formaldehyde Used for Paddy  
**Chah-Ching Lee** 李珪清                      Technical Supervisor
131. Decomposition and Nitrogen Transformation of "Slow-acting" Nitrogenous Fertilizers in Soils  
**Ching-Tsun Chiang** 江景村                      Researcher

# (17) Taiwan Sugar Experiment Station

## Class A

132. The Effect of Various Methods of Fertilizer Application to the Uptake of Nutrient Content on Sugarcane  
**Shiu-Ching Yang** 楊秀青                      Technologist
133. The Use of P<sup>32</sup> to Study the Effect of P Utilization by Ca and PiCa Different Level in Swine  
**Kuan-hsiung Shen** 沈冠雄                      Technologist
134. Studies on a Rapid Diagnosis of Hog Cholera by the Fluorescent Antibody Technique  
**Chia-ching Yen** 嚴家清                      Technologist
135. Cytological Studies in Hybrids of Sugarcane X Wild Cane  
**Kun-Chun Shang** 項公傳                      Research Fellow
136. Effect of Different Levels of Energy on Carcass Quality for Finishing Pigs  
**Nai-Lun Tai** 戴乃倫                      Senior Specialist
137. Studies on the Epidemical Factors of Sugarcane Eye-borer (*Eucosma schistaceana snellen*) I. The Temperatures and Sugarcane Varieties to the Development of Eye-borer  
**Chung-Jen Liang** 梁崇仁                      Technologist
138. Studies on the Utilization of Cross-bred Boars  
**Wei-Cheng Chow** 周維誠                      Research Fellow
139. Nitrogen Metabolism of Petroleum Proteins and Yeast for Swine  
**Tsa-Pou Yeh** 葉澤波                      Section Chief
140. Rotation with Different Sugarcane Varieties Influences the Soil Fertility  
**Yu-jen Hsia** 夏雨人                      Technologist
141. The Influence of the Soil Tilth on the Growth of Sugarcane in Taiwan Sugarcane Fields  
**June-Jiang Shiue** 薛鎮江                      Agricultural Technologist

142. The Tolerance to Herbicides of Sugarcane from Different Seed Sources  
**Sheng Y. Peng** 彭聲揚 Research Fellow
143. Susceptibility of Sugarcane Varieties to Downy Mildew Disease, Caused by *Sclero-  
 spora sacchari*  
**Lii-sin Leu** 呂理樂 Research Fellow
144. Studies on the Sampling Units of Sugarcane Varietal Trials  
**Teh-chung Yang** 楊德忠 Senior Breeder
145. Effect of Asphalt Barriers on the Nature of the Soil Moisture and Improvement  
 of Soil Productivity with Respect to Its Economic Evaluation  
**Chwan-Chau Wang** 王傳釗 Agronomist
146. Field Studies of Internal Moisture Relation to Irrigation of Sugarcane  
**Hao Chang** 張灝 Senior Agronomist
147. Bagasse Utilization by Microorganisms: I. Isolation and Characterization of  
 Bagasse Utilizing Microorganisms  
**Yao-tung Liu** 劉曜東 Chemical Engineer
148. The Effect of Various Methods of Fertilizer Application to the Uptake of Nutrient  
 Content on Sugarcane  
**Shiu-Ching Yang** 楊秀青 Technologist
149. Studies of the Optimum Levels of Amino Acids and Energy for Early Weanling  
 Pigs  
**Shy-Yu Chen** 陳賜鈺 Technologist

### Class B

150. The Influence of Sprinkler and Surface Irrigation on Growth of Ratoon Cane  
**Yu-Tsuan Chang** 張玉鑽 Associate Technologist
151. Studies on the Extraction of Microbial Enzyme: II. Studies on the Extraction  
 of Invertase Produced by Yeast Strain Y-1112  
**Pau-Tsung Hwang** 黃寶村 Assistant Researcher
152. Solar Radiation and Photosynthesis of Sugarcane in the Field  
**Chang-chi Chu** 朱昌祺 Associate Agronomist
153. Studies on the Production of Glucose Oxidase: Part IV. Experiments on the  
 Increase of the Recovery Percentage of Glucose Oxidase  
**Chiang-tyaw Leu** 呂江調 Assistant Technologist
154. Research on Soil Salt Balance: I. The Study of Effective Leaching Rainfall  
**Shih-ching Yen** 嚴式清 Associate Technologist

### Class C

155. A Study on Host Preference of *Epitettix hiroglyphicus* Mats.  
**Shiu-Lan Yang** 楊秀蘭 Assistant Technologist

156. Isolation and Cultivation of a Plant Pathogenic Mycoplasma Causing White Leaf Disease in Sugarcane

**Ching-shiou Lee** 李敬修

Assistant Technologist

(18) **Taiwan Fishery Research Institute**

**Class A**

157. Three Studies on the Ecdysis of Shrimp by the Addition of Glucosamine in Artificial Diet

**Yung-shun Lai** 賴永順

Senior Specialist

158. The Studies on the Manufacture of Fish Paste from Reddish Fish Meat

**Shaw-Nan Peng** 彭紹楠

Chief Technician

159. The Distribution of Zooplankton at the Mackerel Fishing Ground in the North-eastern Sea of Taiwan

**Wen-young Tseng** 曾文陽

Senior Specialist

(19) **Taiwan Agricultural Experiment Station**

**Class A**

160. A Study on the Relationship between Parent Material of Paddy Soils and Soil Fertility Based on Soil Series

**Chun-chuan Chen** 陳春泉

Senior Specialist

161. A Study on Eriophyid Mites of Guava

**Tsan Huang** 黃讚

Senior Specialist

162. Improvement of Fiber Quality of Sisal as Rope Material in Taiwan

**Ming-Li Lai** 賴銘立

Senior Specialist

163. A Study on the Relation between the Condition of Pineapple Plant and Its Effect of Inducing Flowers

**Chi-chun Huang** 黃季春

Senior Specialist

164. A Synthesis Study of the Genesis of Reddish Brown Latosols, Yellowish Brown Latosols, and Red-yellow Podzolic Soils in Taiwan

**Ku-wing Leung** 梁鉅榮

Senior Specialist

165. Relationship between Seedling Length and Plant Height and Its Impact on the Selection of Short Plant in Rice

**Wan-lai Chang** 張萬來

Senior Specialist

166. Studies on the Genetic Variability in Early Generations of a Randomly Interbreeding Population of Sweet Potatoes

**Liang Li** 李良

Agronomist

**Class B**

167. Studies on Witches' Broom of Sweet Potato  
**I-lang Yang** 楊一郎 Technician
168. Studies on the Microclimatic Factors in Relation to the Occurrence of the Rice Plant Hoppers  
**Kwei-shui Lin** 林珪瑞 Technical Specialist
169. A Study on Diagnosis of Rice Plant for the Demand of Panicle Fertilizer (Nitrogen Top-dressing during Panicle Initiation Stage)  
**Shen Lian** 連深 Technical Specialist
170. A Study on the Cation Exchange Properties of the Paddy Soils in Taiwan  
**Ching-yuan Lai** 黎靜韻 Technical Specialist
171. Studies on the Factors Affecting the Yield and Quality of Ginger (*Zingiber officinale Roscoe*)  
**Chao-hsiung Lin** 林昭雄 Technical Specialist
172. Improvement of Control Methods against Pineapple Mealybug in Dry Areas  
**Hsi-shan Lee** 李錫山 Technical Specialist
173. Studies on the Drug Resistance of *Pyricularia oryzae* against Antibiotic  
**Chin-chung Chien** 簡錦忠 Technical Specialist
174. A Study on the Chemical Treatments of the Citrus Seedling Roots for Controlling the Citrus Nematode  
**Mo-Chu Toun** 童慕秋 Specialist
175. Ecological Studies on the Most Important Upland Soil-borne Plant Pathogen, *Rhizoctonia solani* Kuhn: II. Rotation System in Relation to Vicissitude of *Rhizoctonia solani* and the Possibility for Control of *Rhizoctonia* Diseases  
**Chin-Chyu Tu** 杜金池 Technical Specialist

**Class C**

176. Variability of Some Agronomic Traits in the  $F_3$  Populations Grown by Generation Acceleration Method of Rice  
**Sung-Chien Yang** 楊遜謙 Technician
177. A Study on the Influence of Percolation Rate in Paddy Soil on the Growth of Rice Plant  
**Lanti Li** 李蘭蒂 Technician
178. A Study on the Use of Nitrification Inhibitor for Crop Production: I. A Study on the Effect of Nitrification Inhibitor Used in the Direct Sowing Paddy Field and Rotation Irrigation Paddy Field  
**Hsi-ping Wen** 溫西濱 Technician



179. Investigation on the Relation between the Main Botanical Characteristics, Anatomy of Fiber Cell of New Jute Varieties (Strain) and the Retting Period, Fiber Qualities  
**Chien-Li Ling** 凌千里 Technician
180. A Study of the Effects of  $\text{CaCO}_3$ ,  $\text{CaSiO}_3$  and Organic Manure on the Chemical Changes and the Growth of the Yield of Flooded Rice on a Strongly Acid Latosolic Soil  
**Tzu-chun Li** 李子純 Technician
181. Studies on the Quantitative Inheritance of *Oryza sativa* L.: I. Diallel Cross of Semi-dwarf Rice  
**Te-Mei Chang** 張德梅 Technical Assistant
182. A Study on the Response of Legume Plant to Lime, Phosphate and Inoculation on Acid Red Soils: II. The Effect of Inoculation on the Growth of *Glycine koidzum*  
**Kuo-chin Chang** 張國勤 Technician
183. The Genus *Trioxys* Haliday of Taiwan  
**Ching-shen Liu** 劉清淳 Technician
184. A Study on Some Inhibitory Factors on Rice Yield of Latosolic Paddies Newly Covered from Tea Plantation  
**Wen-Lian Huang** 黃文良 Technician

## (20) Taiwan Forestry Experiment Station

### Class A

185. Preliminary Study on the Methods of Management for the Natural Cypress Stands on High Mountain District in Taiwan  
**Liang-pin Hung** 洪良弼 Senior Specialist
186. A Preliminary Study in the Structure of Important Bamboos in Taiwan  
**Fu-ching Chiang** 蔣福慶 Senior Specialist
187. Ecological Studies on the Vegetation of Eastern Coastal Area of Taiwan  
**Lo-min Chang** 章樂民 Senior Specialist
188. Experiment on Reconditioning Treatment of Collapsed Timber  
**Tze-ping Ma** 馬子斌 Senior Specialist
189. Studies on the Classification of the Climax Vegetation Communities of Taiwan: III. Studies on the Hardwood Forest Formation and Tropical Savanna Formation  
**Tsing Liu** 柳 椿 Senior Specialist
190. The Efficiency of Different Standard Creosote Oil and Their Solution to Prevent Wood Decay  
**Shou-Fan Wang** 王守範 Senior Specialist

191. The Conversion of Tree Species in the Sand Prevention Forest of Taiwan

**Wei-hong Kan** 甘偉航

Senior Specialist

### Class B

192. Experiment on the Lumbercore Plywood Manufacturing of "*Schefflera octophylla* (Lour) Harms" in Taiwan

**Zu-lin Sun** 孫祖林

Technical Specialist

193. Experiment of the Gluing Properties of Important Species Grown in Taiwan

**Cheng-yi Lin** 林振益

Technical Specialist

194. A Study on the Interception of Rainfall through Different Degrees of Thinning of Chinese Fir "*Cunninghamia lanceolata* (Lamb) Hook" Foundation

**Chia-sheng Pan** 潘家聲

Section Chief

### Class C

195. Studies on the Pulping of Chu-Pien Bamboo, "*Bambusa beecheyana* Munro var. *Pubescens* (Li) Lin"

**Yun-chuan Ku** 谷雲川

Technician

196. An Evaluation of Core Wood Pulping and Papermaking

**Shen-jei Lin** 林勝傑

Technical Assistant

197. A Comparative Test of the Fire Retardant of Wood Treated with Five Kinds of Chemicals

**Tang-chou Hsieh** 謝堂州

Junior Specialist

198. Formation and Development of Pollen in *Pinus taiwanensis* Hayata

**Jen-li Wang** 王仁禮

Junior Specialist

## (21) Seed-Propagating Station, Dept. of Agriculture and Forestry, Taiwan Provincial Government

### Class A

199. A Study of Cabbage in Tropical Area

**Chai-fa Shen** 沈再發

Senior Specialist

## (22) Bureau of Commodity Inspection & Quarantine

### Class A

200. Some Factors Influencing Lesion Formation on Plants Inoculated with Potato Virus Y

**Sheng-teh Lee** 李賢德

Senior Specialist

201. A Study on Banana Black Rot Caused by *Botryodiplodia theobromae* Pat.

**Yun-peng Tsai** 蔡雲鵬

Senior Specialist

**Class B**

202. The Effect of Host Nutrition on Development and Sex Differentiation of Cotton Root-knot Nematode (*Meloidogyne incognita acrita*)

**Wu-Ching Su** 蘇武卿

Specialist

**(23) Provincial Research Institute for Animal Health**

**Class A**

203. Detection and Titration of Lapinized Hog Cholera Virus by Means of Tissue Culture Technique

**Chai-Chun Lin** 林再春

Senior Specialist

**Class B**

204. Studies on the Avian Reovirus Isolated in Taiwan

**Yung-siu Lu** 呂榮修

Technical Specialist

205. A Study on the Living Vaccine Strain of Japanese Encephalitis for Domestic Animals

**I-Po Chan** 詹益波

Chief Technologist

**Class C**

206. Studies on the Biologic Assay of Specific-Pathogen Free Pigs

**Ho-sung Yang** 楊火松

Technician

207. Breed Difference and Protein Source on the Occurrence of Uremic Poisoning in Chickens

**Ching Chen** 陳清

Technician

208. Seasonal Changes of Bovine Semen and Correlation among Its Characters

**Weng-kong Sung** 宋文恭

Technician

**(24) Hsinchu District Agricultural Improvement Station**

**Class A**

209. Effect of Canopy Architecture on the Growth and Grain Yield of Soybean

**Kuang-chi Su** 蘇匡基

Senior Specialist

**Class C**

210. Studies on Virus Diseases of Sweet Potatoes in Taiwan

**Yih-tyang Huang** 黃益田

Technician

**(25) Taiwan Tea Experiment Station**

**Class A**

211. Studies on the Effect of Shade Tree (*Acacia confusa*) on the Growth of Tea Bush (*Camellia sinensis* Var. *sinensis*)

**Cheng-tuo Wu** 吳振鐸

Senior Specialist

212. Studies on the Characteristics of Tea Soils on Rolling Lands

**Hwi-min Chu** 朱惠民

Senior Specialist

(26) **Taichung Branch of Bureau of Commodity Inspection  
and Quarantine**

**Class A**

212. Physiological Study on *Heteropeza pygmaea winn* Larvae of Cultivated Mushroom in Taiwan

**Show-Shyan Tserng** 曾壽賢

Senior Specialist

(27) **Kaohsiung District Agricultural Improvement Station**

**Class A**

213. Ecological Studies of Root-lesion Nematodes on Vegetable and Their Parasitic Nematodes Control Trial

**Yuan-ping Hung** 洪元平

Director

214. Genetic Studies of Shattering of Rice

**Yu-long Wu** 吳育郎

Chief Technician

(28) **Union Industrial Research Institute,  
Ministry of Economic Affairs**

**Class A**

215. The Effects of Ultra-freezing and Slow-freezing on Mushroom

**Hung-yen Kao** 高宏言

Chemical Supervisor

(29) **Taiwan Tobacco Experiment Station**

**Class A**

216. Notes on Morphology and Hosts of Formosan Whiteflies: II. Six Species of the Genus *Dialeurodes*

**Yu-Cheng Chang** 張玉珍

Senior Specialist

217. Influence of Different Nitrogenous Forms on Growth and Quality of Flue-cured Tobacco

**Sen-tu Hsieh** 謝森圖

Senior Agronomist

218. The Use of Monosomic to Locate the Powdery Mildew Resistant Genes in Tobacco

**Chen-Hwa Chen** 陳振華

Senior Specialist

219. Inheritance of Resistance to Bacterial Wilt in Flue-cured Tobacco

**En-Yue Chang** 張恩雨

Senior Specialist

**Class B**

220. A Study on the Response Surfaces of Fertilizer Rates of Flue-cured Tobacco

**Chem-Kun Lien** 連錦昆

Specialist

- ### C. HUMANITIES AND SOCIAL SCIENCES

(1) **Academia Sinica**

## Class A

1. Series III of Selected Archival Materials of the Ming and Ch'ing Dynasties  
**Kwang-tao Li** 李光濤 Research Fellow
2. The Ling-pao Dialect  
**Shih-feng Yang** 楊時逢 Research Fellow
3. The Royal Estates and the Arable Lands of the Royal Princes during the Ming Period  
**Chi-hua Wu** 吳緝華 Associate Research Fellow
4. A Study of Ch'ing Slavery  
**Wen-Shih Ch'en** 陳文石 Associate Research Fellow
5. The Ch'iang Groups of the Han Dynasty and Their Relations to the Chinese  
**Tung-kuei Kuan** 管東貴 Associate Research Fellow
6. A Study of the Kuo-yü Chiu-yin  
**Yi-jen Chang** 張以仁 Associate Research Fellow
7. The Collection, Preservation, Transcription and Circulation of Books in the Han Dynasty  
**Fa-ken Chin** 金發根 Associate Research Fellow
8. A Study on the Sino-Korean Border Demarcation in the K'ang Hsi Period  
**Ts'ung-wu Chang** 張存武 Associate Research Fellow
9. Liang Ch'i-ch'ao, His Role in the Early Republic of China  
**Peng-yuan Chang** 張朋園 Associate Research Fellow

## 10. Huang Tsun-hsien and His Cognizance of Japan

**Hsi Wang** 王璽

Associate Research Fellow

## 11. Social Change in a Paiwan Village, Ponodan

**Chung-i Wen** 文崇一

Associate Research Fellow

**Class B**

## 12. The Changing of the Structure of the Official Families in the Mediaeval China

**Han-kuang Mao** 毛漢光

Assistant Research Fellow

## 13. A Study of the Ancient Characters "Yin" and "Chun" in Relation to "Chun-tze" (Gentlemen) and Problems Concerned

**Heng-yu Wang** 王恒餘

Assistant Research Fellow

## 14. Factors Contributing to Taiwan's Agricultural Development

**Jhi-Tseng Shih** 史濟增

Assistant Research Fellow

## 15. The Structural Changes of Taiwan's Farm Household Economy, 1952-1967

**Wen-hui Lai** 賴文輝

Assistant Research Fellow

## 16. Development of Financial Intermediaries in Taiwan

**Ching-yi Ho** 何清益

Assistant Research Fellow

## 17. A Survey of the Industrial Development in Taiwan

**Hong-chang Chang** 張鴻章

Assistant Research Fellow

**Class C**

## 18. A Farming Village in the Modern Taiwan—An Anthropological Approach

**Chia-ming Hsu** 許嘉明

Assistant

(2) **National Taiwan University****Class A**

## 19. Chinese Literature in Edo Period of Japan

**Te-Shih Huang** 黃得時

Professor

## 20. A Study on the Five Plays of Wu Ping

**Ching Chang** 張敬

Professor

## 21. Verifications and Annotations of the Prevalent Phrases of the Buddhist Classics

**Hsien-Kung Chu** 曲顯功

Professor

## 22. A Study of Tuku Chi

**Lien-Tien Lo** 羅聯添

Professor

## 23. From the Ways of Performing the Ode Sung by Music in Ceremonies, the Original Meaning of Each Poem Might Be Perceived Thereof

**Ting-sheng Ho** 何定生

Professor

24. A Study of King Shang-i and Hsia-i Found in Bones Inscriptions of the Shang Dynasty  
**Hsiang-heng Chin** 金祥恒 Professor
25. Nasality in a Tone Language  
**Frederic Francis Weingartner** 溫知新 Professor
26. Biography of Li Hung-Chang: First Period, 1823-1864  
**Shou-kung Lee** 李守孔 Professor
27. A Study of the Border Areas Defense of the Southern Sung Dynasty  
**Jui-han Lin** 林瑞翰 Professor
28. The Teaching of Manchu's Language to the Young Hanlin Academician in the Ching Dynasty  
**Tsung-T'ung Li** 李宗侗 Professor
29. A Critical Study on New Realism and Critical Realism  
**Yao-hsun Hung** 洪耀勳 Professor
30. Cultural Originality and Social Change of the Aolan Paze in Puli  
**Hwei-lin Wei** 衛惠林 Professor
31. Library Services in the Republic of China  
**Yung-Hsiang Lai** 賴永祥 Professor
32. A Study on the Metaphor in Ch'u Tz'u  
**Yi Peng** 彭毅 Associate Professor
33. On Confucianists in the Motze  
**Fu-mei Chou** 周富美 Associate Professor
34. A Study of Memorials and Emperor's Vermilion Endorsements during the Yung-Cheng Period  
**Chieh-hsien Ch'en** 陳捷先 Professor
35. The Classicism and Research Method of Juan Yüan  
**Yu-sen Ho** 何佑森 Associate Professor
36. A Study on the Prediction of Recidivism  
**Kan-mei Chang** 張甘妹 Professor
37. The Defensive Behavior of the Accused  
**Tun-ming Tsai** 蔡墩銘 Associate Professor
38. A Study on the Special Authoritative Relationship (*Besonderes Gewaltverhältnis*) in Administrative Law  
**Yueh-sheng Weng** 翁岳生 Associate Professor

39. Limited Sovereignty of Socialist States—A Study on the New Soviet Theory for Control of Its Satellites  
**Shou-yao Wei** 魏守嶽 Professor
40. Some Hidden Purpose of the Soviet Armed Intervention in Czechoslovakia's Liberalisation Movement in August 1968  
**Robert Chu-kua Huang** 黃祝貴 Professor
41. The Ombudsman System and Administrative Remedy  
**Chien-han Chang** 張劍寒 Professor
42. The Arab-Israeli Conflict  
**Steven Kuan-tsyh Yu** 俞寬賜 Associate Professor
43. A Study on the Political Thought of the Huai Nan Tsu  
**Ling-Hsu Ho** 賀凌虛 Associate Professor
44. Research on the Theories of Transference of Political Power in Ancient China  
**Kuang-Teh Sun** 孫廣德 Associate Professor
45. A Study on a Pacific and Asian Collective Security Organization  
**Fu-shun Lin** 林福順 Associate Professor
46. A Historical Retrospect of the Idea of the "Welfare State"  
**Chin-mao Huang** 黃金茂 Professor
47. The Living Standard of Taiwan People  
**Han-yu Chang** 張漢裕 Professor
48. Taiwan's Labor Force in 1991  
**Lung-hwa Kou** 寇龍華 Professor
49. The Reconstruction of Chinese Family Ethics  
**Chen-lou Chu** 朱岑樓 Associate Professor
50. Relation between the Study of History and Community Development  
**Martin M. C. Yang** 楊懋春 Professor
51. Agriculture in Taiwan Ten Years Ahead  
**Yi-tao Wang** 王益滔 Professor
52. A Study on Agricultural Labor Surplus in Taiwan  
**Yung-chang Lee** 李永彰 Associate Professor
53. Rural Leaders and Leadership Patterns with Their Application in Agricultural Extension in Two Selected Townships in Taiwan  
**Hsueh-yi Lu** 呂學儀 Associate Professor
54. A Study on the Supply, Demand, and Price of Wheat in Taiwan  
**Chao-chen Chen** 陳超塵 Associate Professor



55. The Actual Account of Dr. Sun Yat-sen

**Kang Lo** 羅 剛

Professor

**Class B**

56. A Study of the Literary Criticism of Ou-yang Hsiu

**Chien Chang** 張 健

Lecturer

57. A Study of the Early Sung Poetry and the Hsi-Kun Poetic Style

**Ch'i-Fang Huang** 黃啓方

Lecturer

58. Textual Criticism on Ch'ien-fu-lun

**Jung-mao Liang** 梁榮茂

Lecturer

59. Kato Hiroyuki (1836-1916) and His Early Thought

**Yeng-Chyh Lee** 李永熾

Lecturer

60. Studies on the Reign Chronicle of the Thirteen Emperors of the Sung Dynasty

**Teh-yi Wang** 王德毅

Lecturer

61. Mr. Liang Ch'i-Ch'ao before 1898

**Hui-Wen Sun** 孫會文

Lecturer

62. The Interpretations of American Revolution: From Charles A. Beard to Robert E. Brown

**Ching-hui Liu** 劉景輝

Lecturer

63. The Economic Thought and Policy of the Three Kingdoms

**Fu-chih Han** 韓復智

Lecturer

64. A Study of the Philosophical Foundation of Physics

**Chi-wu Hsieh** 謝啓武

Lecturer

65. A Comparative Study on Kant's and Schiller's Aesthetic Theory

**Tien-yi Chao** 趙天儀

Lecturer

66. The Religious Policy of the Manchus toward Tibet

**Pao-tang Chu** 朱寶唐

Lecturer

67. The Royal Library of the Tang Dynasty

**Tsin-fu Chow** 周駿富

Lecturer

68. How Faculties, Staff, and Students Improve the Efficiency in Their Teaching, Learning, and Self-improvement with the Aid of Instructional Media

**Abraham Ching-huang Lin** 林景煌

Lecturer

69. The Forming-up and Developing of the Epistemological System of Chuang Tze

**Guu-Ying Chen** 陳鼓應

Lecturer

70. A Study on the Acquisition of Its Own Shares by a Stock Corporation

**Fang-chi Ko** 柯芳枝

Lecturer

71. A Study of the Political Situation of Vietnam, 1961-1963  
**Diana Fuh-mei Hsiao** 蕭富美 Lecturer
72. An Economic Analysis of Hog in Taiwan  
**Yu-ping Chai** 翟毓萍 Lecturer
73. The Social Thought of Wang Yang-min  
**Cheng-han Chang** 張承漢 Lecturer
74. A Study of Factors Affecting the Diffusion of Agriculture Messages  
**You-lung Chiang** 江玉龍 Lecturer
75. A Study on Combination of Labor and Capital in Farm Operation in Taiwan  
**Ying-chih Chiang** 江榮吉 Lecturer

### Class C

76. The Private Education in the T'ang Dynasty  
**Ming-shih Kao** 高明士 Assistant
77. A Study on Carnap's Theory of Meaning  
**Shu-Tong Yang** 楊樹同 Assistant
78. Oxfordean Reaction to Contemporary Theories of Perception  
**David Shin-yun Yei** 葉新雲 Assistant
79. A Study on the Neolithic Axes and Adzes from Taiwan  
**Shyh-Chiang Huang** 黃士強 Assistant
80. A Study on the Prehistoric Materials Excavated at the Tung-chiao Site, Nantou Hsien, Taiwan, in 1954  
**Chao-mei Lien** 連照美 Assistant
81. A Study of Social Work in Taiwan  
**Pei-shien Liu** 劉佩仙 Assistant
82. A Study of Occupational Change of Residents of Shuan-yuan District, Taipei City  
**Shiao-chun Chang** 張曉春 Assistant
83. A Study of the Effectiveness of Citrus Growers' Training in Taiwan  
**Lewis Ru-yi Chang** 張汝翼 Assistant
84. Research on Ceremonies and Rituals of "Shi Yu Li" in the "I-Li"  
**Kwong-Yu Cheung** 張光裕 Assistant

### (3) National Chengchi University

#### Class A

85. An Analysis of the Religious Liberty Clause of the American Constitution  
**Chih-jen Ching** 荆知仁 Professor

86. The Survey of the Current Status of the "General Knowledge" Instruction in the Primary Grades of the Elementary School  
**Shin Shui** 水心 Professor
87. A Study on the System of County Magistracy in Yuan Dynasty  
**Chio Sheng Chi** 齊覺生 Professor
88. A Study on the Evolution of the Franco-German Diplomatic Relations between the Two World Wars (1919-1939)  
**Tchong-Koei Li** 李鍾桂 Associate Professor
89. A Study of the Local Educational Administration System of Ching Dynasty  
**Yunn Cheng** 程 運 Professor
90. A Study of Blake's Managerial Grid  
**Juei-cheh Cheng** 鄭瑞澤 Associate Professor
91. The Management of Taiwan Local Elections  
**Yu-hsien Long** 郎裕憲 Associate Professor
92. A Study on the Central Political System of the Liao Dynasty and Chin Dynasty  
**Shu-fan Yang** 楊樹藩 Professor
93. On International Monetary Reform  
**Ching-ing Hou Liang** 侯金英 Associate Professor
94. Can Communist Nations Peacefully Coexist with Democratic Nations?  
**Shih-Hwan Meng** 孟十還 Professor
95. A Study on the Law of the Organization of The People's Court and the Law of The Organization of The Procuratorate in Communist China  
**Simpson C. P. Liu** 劉清波 Professor
96. Communist China's Relations with Laos, 1954-1969  
**Wei-cheng Lee** 李偉成 Associate Professor
97. A Study on the Financial Problems of Hsiang, Town and City in Taiwan  
**Ching-chiu Po** 薄慶玖 Associate Professor
98. The Economic Relation between Sung (including the Five Preceding Dynasties) and Liao  
**Te-han Chao** 趙鐵寒 Professor
99. A Study of Guidance for Perverse Children  
**Ching-kai Chang** 張慶凱 Professor
100. A Survey of Ability Grouping Programs in Taipei Public Junior High Schools  
**Shang-yung Liang** 梁尙勇 Associate Professor
101. Research for the Uighur's Horses  
**Yi-tang Liu** 劉義棠 Associate Professor

102. A Study on the Problems of Urban Renewal  
**Hugh-Min Tung** 董修民 Professor
103. A Study on the Vacancy of Appointment Made by Department of Personnel in Ching Dynasty  
**Tsung-Mao Fu** 傅宗懋 Associate Professor
104. A Comparative Study on Secondary Education in Modern Countries  
**Huan-chen Wang** 王煥琛 Associate Professor
105. A Theoretical Study of Political Development  
**Joseph P. L. Jiang** 江炳倫 Professor
106. A Study of the Chinese Television System  
**Thomas C. Lee** 李 瞻 Professor
107. A Study of Educational Expenditures of All Levels in China: I. Expenditure for Education of the Primary Schools  
**Pao-tien Tsai** 蔡保田 Associate Professor
108. A Study of the Educational System of Wei, Tsin, North and South Dynasties  
**Cheng-pin Yang** 楊承彬 Professor
109. An Analysis of Political Socialization  
**Chun-po Yih** 易君博 Professor
110. The Value and Problems of the Study of Political Behavior  
**Li-chin Hua** 華力進 Associate Professor
111. An Analysis and Discussion of "Electoral Accusation" and "Punishment for Disturbing Election" in Taiwan  
**Chang-tsuan Hsiang** 項昌權 Professor
112. A Survey Study of Current Practices of Personnel Administration in Universities and Colleges in the Republic of China—A Survey Study of Administration in Universities and Colleges in the Republic of China (I)  
**Shang-chi Yeh** 葉尙志 Professor
113. A Study of Wan Kuo Kung Pao (Review of the Times) Published by Western Missionary  
**Kuang-lin Lai** 賴光臨 Associate Professor
114. A Study of Mongolian Surnames  
**Harnod Hakanchulu** 哈勘楚倫 Associate Professor
115. Some Principles for Making Regional Planning in Taiwan  
**Sien-liang Li** 李先良 Professor
116. An Analytical Study of the Establishment, Form, and Essence of the Chinese Communist "Shensi-Kansu-Ninghsia Border Area Government"  
**Po-yi Tsao** 曹伯一 Associate Professor

# Class B

117. Electronic Data Processing as the Method of Improving the Cadastral Statistics  
**Chung-chia Yu** 于琮嘉 Lecturer
118. The Relationship between Personality and Academic Achievement of Public High School Students  
**Pan-chieh Lin** 林邦傑 Lecturer
119. A Survey on the Opinions about the Subject-Matter Selecting and Organizing of the Geography for Junior High Schools  
**Shu-wu Li** 李緒武 Lecturer
120. The Criticism on "China and India's Navigation Course" in the Topography of the History of Former Han Dynasty  
**Yu-hu Hsu** 徐玉虎 Lecturer
121. The Comparison and Analysis on Land Values  
**Chi-chao Su** 蘇志超 Lecturer
122. The Study of National Health Insurance Program  
**Chia-yang Chang** 張家洋 Lecturer
123. A Research on Real Estate Valuation  
**Yuan-hsing Lin** 林元興 Lecturer
124. The Effects of Nutrient Lunch on Physical Health of Primary-School Pupils at Fishery and Salt-making Areas  
**Chi-tong Yang** 楊極東 Lecturer
125. A Study of the Economic Development of the Aborigines in Taiwan  
**Ying-yen Lin** 林英彥 Lecturer
126. A Study of the Uses of Quantitative Methods and the Management of Corporate Resources  
**Ing Feng Lin** 林英峰 Lecturer
127. A Study on the Movement of Korean Confucian Against the Christian (Catholic)  
**Sang-geum Kim** 金相根 Lecturer
128. A Statistical Analysis on the Mortality and Its Future Tendency of the Population in Taiwan  
**Sunglin Chai** 柴松林 Lecturer
129. Studies on In-service Training of Administrative Organization  
**Bur Shan Su** 蘇伯顯 Lecturer
130. The U. S. Federal Position Classification System  
**Jun-shu Chang** 張潤書 Lecturer

131. A Study on the Intelligence Development of Ami Students from Grade 3 to Grade 9  
**Wen-Hsiang Chi** 紀文祥 Lecturer
132. The U.S. President's Delegated Legislation Power  
**James Jih-ching Yang** 楊日青 Lecturer
133. The Development of the General Assembly's Role of United Nations  
**Hung-yuan Chang** 張宏遠 Lecturer
134. A Study of Employment System of the Public Junior High School  
**Tao Liu** 劉 滔 Lecturer

**Class C**

135. A Scientific Study of English Teaching for Public Junior Middle School  
**Bor-Ing Lin** 林伯英 Assistant
136. An Application for Administrating the Bad-debt by Markov Chain  
**Ching-Bair Liu** 劉清白 Assistant
137. A Study of Corrective Power of the Control Yuan Towards Executive Activities  
**Hwei-li Chen** 陳慧麗 Assistant
138. A Study on Managerial Program for Human Relations  
**Jih-Chyh Wu** 吳繼熾 Assistant

**(4) National Taiwan Normal University****Class A**

139. An Academic Study of the Three People's Principles  
**Juan Choy** 崔載揚 Professor
140. Self Theory and Its Application to Pedagogy  
**Wei-fan Kuo** 郭爲藩 Associate Professor
141. Theoretical Foundations and Systems of Industry—Education Cooperation—A Comparative Approach  
**Ching-Jiang Lin** 林清江 Associate Professor
142. Comparative Study of Compulsory Education  
**Kuo-ting Ley** 雷國鼎 Professor
143. English Public School Education and Its Reform Problem  
**Cheng-tsou Wu** 伍振鷺 Professor
144. A Study of the Thoughts of Chinese Modern Democratic and Popular Education and Its Influence on China  
**Shih-hsing Cheng** 鄭世興 Associate Professor
145. A Study on University Teacher's Problems  
**Tseng-Shiuh Lu** 盧增緒 Associate Professor

146. The Study on Subject Headings  
**Chen-ku Wang** 王振鵠 Professor
147. The Research Report on the Simplification of the Morphology of Chinese Characters  
**You-pei Chao** 趙友培 Professor
148. A Study on the Renaissance of Physical Education in West Germany after the Second World War  
**Wen-Chung Wu** 吳文忠 Professor
149. A *Who's Who* in the Ch'un-Ch'in Period  
**Fa-Jen Cheng** 程發軔 Professor
150. The Metaphysical Theory of Tao-te-ching  
**Chi-chun Chang** 張起鈞 Professor
151. A Study on the Mistakes in the Biographies of the Yuan Annals  
**Fu-tung Lee** 李符桐 Professor
152. Studies on the Poetry of Song and Chyi  
**Tzuu Shen Fang** 方祖樂 Associate Professor
153. The Cultural Communication between China and Japan, Korea and Vietnam: A Historical Review  
**Yun-Ying Chu** 朱雲影 Professor
154. Verification of the Marquis (Hou Chüeh) and Earls (Po Chüeh) in the Yin Dynasty  
**Yu Wu** 吳 璵 Associate Professor

#### **Class B**

155. The Contribution of Industrial Education to the Development of Industry in Japan, 1912-45  
**Nan-Hau Hsu** 徐南號 Lecturer
156. A Study on the Educational Thoughts and Practices of Chinese Students Studying Abroad in the Later Ching Dynasty  
**Li-Ho Chyu** 瞿立鶴 Lecturer
157. Moral Teaching—A Conceptual Analysis  
**Oscar Jiaw Ouyang** 歐陽教 Lecturer
158. The Effect of Reward as Given before and after a Performance on Behavior Modification  
**Yau-Huang Huang** 黃遙煌 Lecturer
159. The Prevalence of Mentally Retarded Students in Public Junior High Schools  
**Ching-ming Lu** 盧欽銘 Lecturer
160. A Study of Dialectal Expressions and Folklore Southern Drama  
**Lee Ching Wong** 黃麗貞 Lecturer

161. A Commentary with Supplement on "The Anthology of Literary Records" in *The History of the Ming Dynasty*

**Ben Tung Liu** 劉本棟 Lecturer

162. A Study of Dwarfish Pirates during Ming Dynasty

**Chi-tsung Wang** 王啓宗 Lecturer

163. The Irrigation and Settlement of River Terrace and Plateau at the Upper Tahan River

**Fang-Hoei Chen** 陳芳惠 Lecturer

164. A Study on Statistical Quality Control Applied to Taiwan Coal Mining Industry

**Ying-Yuan Soo** 蘇英源 Lecturer

### Class C

165. The Pattern of Children's Perceptual Growth and Learning Readiness

**Shoo-may Chen** 陳淑美 Lecturer

## (5) Provincial Chengkung University

### Class A

166. A Study of Short-term Financing and Management in Business

**Chung Yuan Cheng** 程忠元 Professor

167. An Emendation of the Collected Notes on Sze-ma Chien's *Records of the Historian* (*Shih Chi*)

**Chi-mien Shih** 施之勉 Professor

168. Introduction to "A Long Journey" and "Soul-Calling"

**Hsueh-lin Su** 蘇雪林 Professor

169. The Identification and Distinguishing of the Meaning of the Ambiguous Words in Chuang Tze

**Mien Lee** 李勉 Professor

170. A Comparative Study of the Statute for Encouragement of Investment and a Legal Study of the Statute for Investment by Foreign Nationals

**Tzu-ping Shao** 邵子平 Associate Professor

### Class B

171. Problems of Organizing the Teaching Materials and Teaching Methods of Natural Science in the Elementary School of China

**Chung-yi Shih** 史中一 Lecturer

### Class C

172. Marketing Research and Test-Marketing for New Products

**Yung-Kang Feng** 馮永亢 Assistant



173. Exponential Smoothing Method and Its Application to Inventory Control  
**Hann-Rong Liou** 劉漢容 Assistant

(6) Provincial Chunghsing University

**Class A**

174. An Economic Study on Rural Subsidiary Business in Taichung Area  
**Chin-Tsao Lin** 林金藻 Professor
175. An Analysis on the Supply of and Demand for Soybean in Taiwan  
**Ching Yu Lee** 李慶餘 Professor
176. An Analysis of Newspaper Information and Its Relationship to Agricultural Extension Education in Taiwan: Part II. An Analysis of the Trends in Newspaper Information as They Relate to Agricultural Extension Education in Taiwan  
**Chin-Kun Lin** 林金坤 Professor
177. A Study of the Methods of Adjustment of Agricultural Price in Taiwan  
**Yi-Shih Su** 蘇夷士 Professor
178. Agricultural Wage Rate and Its Regional Variation in Taiwan  
**Yu-Hsien Yu** 余玉賢 Associate Professor
179. A Study of Social Economic Background of V-A Student's Family in Taiwan  
**Jih-chang Jao** 饒日章 Associate Professor
180. A Study on the Achievement and Improvement of Technical Training Program in V-A School  
**Chi-Ho Hu** 胡啓和 Associate Professor
181. A Study of Public Assistance System  
**Kuo-Chun Chen** 陳國鈞 Professor
182. A Comparative Study on the Lawyer System between the United States and the Republic of China  
**Yin-en Tsai** 蔡蔭恩 Professor
183. A Study of Ways for Improving the Organization and Operation of Fruit Marketing Cooperatives in Taiwan  
**Shu-Sheng Yin** 尹樹生 Professor
184. A Comparative Study on the Three Major Issues Related to the Insurance Law  
**Yung-yung Lin** 林咏榮 Professor
185. A Study on Urban Land Replotting Problems in Taiwan  
**Chang Lai** 來璋 Professor
186. A Study on Arrangement and Revision of the Law of Land  
**Hung-Yee Lee** 李鴻毅 Professor

167. A Study on the Reform of Local Self-government and the Acceleration of Community Development

**Tien-wei Wu** 伍天緯 Professor

188. A Study of Poverty Problem in Taiwan Province

**Wei-lin Wang** 王維林 Professor

### Class B

189. Campaign Finance of Parties in America

**Yen-gen Hsieh** 謝延庚 Lecturer

190. Labour Insurance and Labour Welfare in Taiwan

**Chung-yuan Lee** 李鍾元 Lecturer

191. A Study of Wang Pi's Laoism

**Huai Wang** 王淮 Lecturer

192. A Study on the Relationship between Tibet and the T'ang Empire

**Yu-tsai Jen** 任育才 Lecturer

193. The Analysis of Size Distribution of Hog Production in Taiwan—An Application of Markov Chains

**Yi-chung Kuo** 郭義忠 Lecturer

194. A Study on the Repayment Capacity of the Farmers for the Irrigation Development Project

**Yuan-Jine Yang** 楊垣進 Lecturer

### Class C

195. A Study on Livestock Insurance in Taiwan

**Chiou-Ren Chen** 陳秋仁 Assistant

196. The Study of Radicles for Chinese Characters in Etymology

**Ting-hsien Chu** 朱廷獻 Assistant

197. A Study on Fishing Industry and Fishermen's

**Shaw-Jen Hsiung** 熊紹任 Assistant

198. A Comparative Study on the Admissibility and Evaluation of Evidence

**Tien-kuei Kan** 甘添貴 Assistant

## (7) Tunghai University

### Class A

199. A Study of the Characteristics of Chinese Language in Its Form, Pronunciation and Meaning of Area Character

**Chu-Chien Chiang** 江舉謙 Professor

200. Sino-Vietnamese Relations during the First Half of the Ming Dynasty, 1368-1527

**Shih-peng Lu** 呂士朋 Professor

(8) Soochow University

**Class A**

201. A Two-Sector Model

**Chia-Chu Hou** 侯家駒

Associate Professor

(9) Tamkang College of Arts and Sciences

**Class B**

202. Notes for the Rectified Emperors' Chronicles of the History of Sung Dynasty

**Su Wang** 王 甦

Lecturer

(10) Fugen University

**Class A**

203. The Relationships between the Politics and the Religion of the Mediaeval History of Europe

**Jen-kuang Wang** 王任光

Professor

(11) College of Chinese Culture

**Class A**

204. The Influences of Nuclear Weapons on the Politics of the World

**Tze-min Tan** 談子民

Professor

205. A Comparative Study of Sino-Japanese, and Chinese

**Won-sik Lee** 李元植

Professor

**Class B**

206. A Critical Study of Pei San T'ao

**Tien-k'uei Li** 李殿魁

Lecturer

207. A Comparative Study of Divorce between Roman Law and Chinese Law

**Cheng-chang Lo** 羅正展

Lecturer

208. Contending Views regarding the Poetry of the Han Dynasty, the Wei Dynasty and the Six-Dynasties Periods

**Yung-li Yeh** 葉詠琍

Lecturer

209. The Evaluation and Outlook of the Present Social Policies for the Promotion of Livelihood Principle in Taiwan Province of China

**Chih Chi Wang** 汪志冀

Lecturer

210. A Study of the Relation between Tang and Nanchiao

**Chi-lin Wang** 王吉林

Lecturer

211. A Comparative Study on Legal Thought of Confucianism and Legalist before Chin

**Ming-Jyh Lin** 林銘治

Lecturer

**(12) Shih Chien College of Home Economics**

**Class B**

212. Philosophical Foundations of the Scientific Study of Politics

**Yen-Jer Lin** 林岩哲

Lecturer

**(13) Provincial Maritime College**

**Class C**

213. Research on the Harbour Dock Labour Problem in Taiwan

**Young-Jeou Fu** 傅永久

Assistant

**(14) Provincial Tainan Junior College for Teachers**

**Class B**

214. A Study of Establishing a System of Special Education in the Republic of China

**Hsun-kao Chang** 張訓誥

Assistant Director

**(15) Taiwan Provincial Junior College of Nursing**

**Class A**

215. The Critical Biography of Li I-San

**Wei-ch'ung Liu** 劉維崇

Professor

**(16) National Defence Medical Center**

**Class A**

216. Physicians' Views of Medical Social Work

**Chung-yung Chang** 張宗尹

Associate Professor

**(17) Chinese Air Force Academy**

**Class B**

217. Brief Chronological Biography of Wang Chiu-Chien in the Yuan (Mongol) Dynasty

**Kuo-fan Yuan** 袁國藩

Instructor

**(18) Taiwan Sugar Experiment Station**

**Class B**

218. A Study on the Piglet Market in Taiwan

**Ching-Tang Wang** 王錦堂

Researchist

## D. ENGINEERING AND APPLIED SCIENCES

### (1) Academia Sinica

#### Class B

1. 在自由面影響下薄板三維運動

**Chung-yi Tseng** 曾忠一

Assistant Research Fellow

### (2) National Taiwan University

#### Class A

2. A Study of Earthquake Response of Multistory Buildings

**Ching-Churn Chern** 陳清泉

Associate Professor

3. A Study on the Artificial Recharge of Ground Water and the Feasibility of Checking Land Subsidence in Taipei Area by Artificial Recharge

**Yii-Soong Tsao** 曹以松

Associate Professor

4. Ultimate Design of Prestressed Concrete Beams

**Yu-Lin Wang** 王玉琳

Professor

5. Sediment Problem of Shihmen Reservoir

**Shou-Peng Mao** 毛壽彭

Professor

6. Studies on the Rainfall of Chitou Water Shed

**Jen Yih** 易 任

Professor

7. Spherical Spiral Antenna

**Chun-Hsiung Chen** 陳俊雄

Associate Professor

8. A Research on Filtering Problems

**Wei-Tzen Yang** 楊維楨

Associate Professor

9. Plate Cam Design

**Deng-gui Liaw** 廖燈圭

Associate Professor

10. A Study on the Traveling Ionospheric Disturbances Observed during Ionospheric Storms

**Chun-ming Huang** 黃鐘洺

Professor

11. A Study of High Input Impedance in Transistor Circuits

**Sing Chang** 張 煌

Professor

12. A Study of Automatic Voltage Attenuator

**Yao-I Chu** 朱耀衣

Professor

13. The Application of Learning Control on Digital Computer

**Yung-Lung Ma** 馬雲龍

Professor

## 14. On Fe-C-H Equilibrium Diagram

**Cheng-hsien Hwang** 黃振賢 Professor

## 15. On Solid Carburizing in the Fe-C-O-N

**Pu-Shih Lu** 呂璞石 Professor

## 16. Differential Thermal Analysis of Addition-condensation Reaction in Stirred Tank

**Min-dar Lee** 李敏達 Professor**Class B**

## 17. Application of Groups in Fluid Mechanics

**Chia-Ming Liu** 劉佳明 Lecturer

## 18. Analysis of the Performance of Rice Mower

**Kuo-Wen Shen** 沈國文 Lecturer

## 19. Computer-aided Solution of Integral Equations in Antenna and Scattering Problems

**Chien-ping Wu** 吳建平 Lecturer

## 20. Improvement of Transient Response for a RCTL Switch

**Share-young Lee** 李學養 Lecturer

## 21. Optimum Design of Water Network under Pressure Control

**Tsung-wu Lin** 林聰悟 Lecturer

## 22. Dynamic Influence Lines of Simply Supported Beams Acted upon by the Moving Pulsating Forces

**Tseng-Tien Feng** 馮增田 Lecturer

## 23. The Creep of Concrete under Uniformly Distributed and Uniformly Varying Loads

**Chien-chang Kao** 高健章 Lecturer**Class C**

## 24. A Study of the Error-detection for Self-complement Weighted 4-bit Codes

**Wei-Long Chen** 陳維龍 Assistant

## 25. Dynamic Flexibility Matrix Analysis of Continuous Beams on Elastic Supports

**Hoe-Men Leang** 梁開民 Assistant**(3) National Tsinghua University****Class A**

## 26. Portable Ionization-chamber Instruments

**Hai-Hung Chiang** 江海洪 Professor**Class B**

## 27. A Study of the Characteristics of Reactor Shielding Materials

**Ping Yu** 虞斌 Lecturer

28. Nuclear Design of Two Region Couple Reactor

**Jensan Tsai** 蔡健三

Lecturer

(4) **National Chiaotung University**

**Class A**

29. A Study on the Earth-Moon Rocket Trajectories

**Hsu Chen** 陳 煦

Professor

(5) **National Chungyang University**

**Class C**

30. Methods of Analyzing Data of Earth-resistivity Measurements

**Han-ying Lee** 李漢英

Assistant

(6) **National Taiwan Normal University**

**Class A**

31. A Research on Solar Energy Hot Air Engine

**John C. Wang** 王成椿

Professor

(7) **Provincial Chengkung University**

**Class A**

32. The Effects of Radiation Coupled Laminar Forced Flow on Mass Transfer from a Sphere

**Cheng-ping Chiu** 邱澄彬

Associate Professor

33. Computer Analysis of the Critical Clearing Time of a Faulted Power System

**Al Lopez** 明 鋼

Professor

34. Application of the Electrotransport Phenomenon as a Means of Purifying Metals: Part I. Purification of Ultra High Purity Metallic Cadmium from Its Impure Metals

**Shih-shang Chou** 周釋善

Professor

35. On the Preparation and Electronic Properties of the Glassy Semiconductors: Part I. Te, As, Si, and Ge mixed System Semiconductors

**Shean-Joung Chen** 陳顯榮

Professor

**Class B**

36. Theoretical Analysis on Hypersonic Wake with Ablation

**Chien-ming Chao** 趙健明

Lecturer

37. An Investigation of the Relationship between the Drilling Rate and the Strength Properties of Rock in Taiwan Oil Field

**Tso-Min Shih** 石作珉

Lecturer

## 38. Yield-line Analysis of Skew Slabs

**Horng-ming Fan** 范宏明                      Lecturer

## 39. Plastic Analysis of Beam with Curved Surfaces

**Chuen-Sheng Yang** 楊春生                      Lecturer

**Class C**

## 40. Research of Pressure of Periodic Wave in Shallow Water

**Yang-sun Sha** 沙陽生                      Assistant

## 41. Pressure Response due to Wind Wave

**Mow-Soung Chen** 陳茂松                      Assistant

(8) **Provincial Chunghsing University****Class A**

## 42. The Design of Transisterized Very Long Time-Delay Switching Circuit

**Chun-Kang Tsai** 蔡駿康                      Professor

(9) **Tunghai University****Class A**

## 43. The Transportation Problem by Linear Programming

**Tung-yao Kuo** 郭東耀                      Professor

## 44. Absorption of Gasses in Liquid with Chemical Reactions in the Liquid Phase

**Shih-hsueh Chen** 陳世學                      Associate Professor

(10) **Chung Yuan Christian College of Science and Engineering****Class B**

## 45. The Flow of a Distortional Pipe

**Hung-Kuang Chung** 鍾弘光                      Lecturer

## 46. Wave Transformation in Transitional Slopes

**Yung-chien Huang** 黃榮鑑                      Lecturer

(11) **Provincial Kaohsiung Institute of Technology****Class A**

## 47. Calculating Link-length Ratios of Four-bar Linkages from Two Known Sets of Angular Positions Known Set of Angular Velocities of Two Cranks

**Yi-Kuang Li** 李一匡                      Professor

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## 48. The Electric Field Effects on the Catalytic Hydrogenation of Maleic Acid

**Chin-yung Shih** 石清陽                      Lecturer



(12) **Provincial Taipei Institute of Technology**

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49. A Study of Production of a High Grade Glass Sand by Floating Method  
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51. Research and Manufacture of the Radio Frequency Oscillator  
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52. Q Galvanometer  
**Ko-wei Liu** 劉可煒 Lecturer

(13) **Chungcheng College of Science and Engineering**

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53. On the Effect and Compensation for the Platform Motion and Trunion Tilt of Weapon Systems  
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54. Forced Vibration Systems with Non-linear Characteristics  
**Kuang-ming Liu** 劉光銘 Professor

(14) **Taiwan Provincial Environmental Hygiene Laboratory**

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55. The Studies on Nightsoil Treatment by High Rate Stabilization Pond  
**C. P. Hsu** 許整備 Chemical Engineer

(15) **Chinese Army Academy**

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56. Researches in Stereoscopic Vision of Topographic Map  
**Jea Lin** 林 甲 Professor

(16) **Chinese Air Force Academy**

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57. Analysis of Solid Propellant Rocket Properties and Procedure of Solid Propellant Rocket Design  
**Yung-jen Liang** 梁永仁 Professor

**Class B**

58. A Study of the Application of Green's Function for Solving the Propagation and Radiation of EM Wave  
**Wen-pao Lee** 李文寶 Instructor

**(17) Chinese Air Force Industrial Development Center****Class A**

59. Design of Supersonic Nozzles

**Yeh-chuan Hu** 胡業傳

Engineer

**(18) National Junior College of Fine Arts****Class B**

60. Epitome of the Control of Oxidation of Zinc Plate

**Kunti Liu** 劉功第

Lecturer

**(19) Taiwan Tobacco and Wine Monopoly Bureau****Class C**

61. Acclimatization of Shaoshing Wine Yeasts and Its Effect on the Fermentation

**Chuan-I Yeh** 葉全益

Assistant Technician

**(20) Telecommunication Laboratories, Ministry of Communication****Class A**

62. On the Formation of Sporadic E and Its Variations over Taiwan

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Associate Engineer

**Class C**

63. Variations of Occurrence Frequency of Geomagnetic Micropulsation Pc4 and Pc5

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Assistant Technician

**(21) Power Research Laboratories, Taiwan Power Company****Class A**

64. A Study on R.I. and Corona Loss by Corona Discharge at 345 KV E.H.V. Transmission Line

**Shih-Hsiang Lin** 林石象

Electric Engineer

65. A Study of Economic Loading on Hydro-thermal Power Systems

**Chia-Huei Chou** 周嘉會

Subsection Chief

66. Studies on Salt Contamination of E.H.V. Equipment at Chin-shan Nuclear Power Station Site

**Chao-Chang Kuan** 官兆璋

Section Chief

67. Transmission Line Electrogeometric Shielding Theory—Effective Shielding

**Kai-chih Yeh** 葉開枝

Electric Engineer

**(22) Taiwan Fertilizer Company**

**Class B**

68. A Study on the Preparation of the Slow-Release Nitrogen Fertilizers: Condensation Reaction of Urea and Acetaldehyde

**Yu-Yen Liaw** 廖玉燕

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**(23) Taiwan Sugar Experiment Station**

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69. Rate of Crystal Growth and Low Grade Sugar Boiling

**Chien-Jan Lu** 陸鑑然

Head of Instrument Service Center

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71. A Study of the Use of Partial Carbonation in Removing the Turbidity of Sugarcane Juice and Its Mud Volume

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72. An Analysis of Control Methods in Bagasse-burning Combustion

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Technical Assistant

**(24) Taiwan Highway Bureau**

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73. A Study on Ma's Modified Equation for the Length,  $L_s$ , of the Clothoid

**Yueh-Yin Ma** 馬樾蔭

Engineer

**Class B**

74. Stress Analysis of Pile Rigid Frame

**Chin-Yau Yang** 楊欽耀

Associate Engineer

**(25) Taiwan Forestry Research Institute**

**Class A**

75. A Study on the Process of Manufacturing Chlorine Dioxide

**Shun-Chung Chao** 趙順中

Senior Specialist

**(26) Bureau of Commodity Inspection and Quarantine**

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76. The Preparation of Ni-Cd Storage Battery of Plastic Plates

**Wei-Kuang Chen** 陳煒光

Senior Specialist

**Class B**

77. Studies on the Crosslinking of Polyethylene by Organic Peroxide Curing System

**Show-Wei Lee** 李少蔚

Technician

**Class C**

78. Studies on the Manufacture of High Impact Poly Vinyl Chloride

**Shien-Ping Chen** 陳顯彬

Technical Assistant

**(27) Union Industrial Research Institute, Ministry of Economic Affairs****Class A**

79. Effect of Radiation on the Surface of Silicon

**Kuo-Ching Lin** 林國經

Physicist

80. Bench Scale Unit Studies on the Product Improvement by Precipitation of Magnesium Hydroxide with Lime Milk from Bittern

**Ton-Pol Tam** 譚萬波

Section Chief

81. On the Direct-smelting-converting of Local Chalcopyrite

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Section Chief

82. A Study on Sintering of Magnesia

**Tao-Yu Cheng** 程道腴

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83. A Study on Extraction of Rare Earth Elements from Taiwan Monazite: (1) Manufacture of Rare Earth Oxide for Glass Polishing and Extraction of Cerium

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84. A Study on Quality Control of Nylon

**Ke-Min Wu** 吳克敏

Chemist

85. A Study on Carbon-monoxide Conversion Catalyst

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Chemist

86. Evaluation and Improvement of the Quality of Polystyrene Resin Produced in Taiwan

**Ren-Dow Lo** 羅仁道

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87. The Influential Factors on Characteristic Qualities of Cationic Slurry Seal Mixes

**Shin-Shou Ma** 馬鑫壽

Engineer

88. Studies on Oil-well Corrosion Inhibitors

**Wan-chiu Chen** 陳萬秋

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**Class B**

89. Spectrophotometric Determination of Trace Amount of Rare Earth in High Purity Zirconium Compounds

**Kwok-Yuen Chan** 陳國元

Associate Chemist

**Class C**

90. A Study on the Extraction of Kainic Acid from Digenea

**Mia-Pain Lo** 羅美汴

Assistant

(28) **Union Mineral Research Institute, Ministry of Economic Affairs**

**Class C**

91. A Study of Stream Sediment and Heavy Mineral in Geochemical Reconnaissance for Copper at Lan-Hsu, Taitung

**Fang-Sung Yu** 游芳松

Technical Assistant

## **IV. RECIPIENTS OF SEMI-ANNUAL RESEARCH GRANTS**

### **A. NATURAL AND MATHEMATICAL SCIENCES**

#### **(1) National Taiwan University**

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1. Climatic Methods for Estimating the Total Runoff of a River Basin

**Chiu-Yuan Wang** 王秋原

Associate Professor

##### **Class B**

2. On the Question of Using Statistical Method to Study Cloud Development

**Sheng-Ping Ho** 何勝平

Lecturer

#### **(2) National Tsinghua University**

##### **Class B**

3. A Study on Angular Distribution of Protons Elastically Scattered from  $^{208}\text{Pb}$  and  $^{209}\text{Bi}$

**Chung-Jen Li** 李宗仁

Lecturer

#### **(3) Tunghai University**

##### **Class B**

4. Spectrometric Study of Free Radicals in Liquid Phase

**Hsien-Yen Wang** 王憲琰

Lecturer

#### **(4) Tamkang College of Arts & Sciences**

##### **Class A**

5. Studies on the Woodward and Hoffmann Theory

**Yun-Shan Lin** 林雲山

Professor

#### **(5) Academia Sinica**

##### **Class B**

6. Photo- and Radiation Effects of Inorganic Nitrogen Compounds in Pure Water and Sea Water near Taiwan in the Kuroshio Current

**Tsu-Chang Hung** 洪楚璋

Assistant Research Fellow

**(6) Taiwan Petroleum Exploration Division, Chinese Petroleum Corporation**

**Class A**

7. Biostratigraphic Study of Chiayi Foothills Area (Chukou-Tapu), Southern Taiwan  
**Tunyow Huang** 黃敦友 Senior Geologist

**B. HUMANITIES AND SOCIAL SCIENCES**

**(1) National Taiwan University**

**Class A**

8. The Distortion of Under-subsistence Level of Nominal Wages on the Work Effort and Resource Allocation  
**Tien-tung Hsueh** 薛天棟 Associate Professor
9. A Research of International Dispute Solving Method  
**Shang-Sien Ho** 何尙先 Associate Professor

**Class C**

10. Behaviorism and Language Teaching  
**Ling-hsia Chen** 陳凌霞 Assistant

**(2) National Chengchi University**

**Class A**

11. The Study of Undertaking the Value-added Tax in Developing Countries  
**Ting An Chen** 陳聽安 Associate Professor

**Class B**

12. The Ghana Coup of 1966  
**Shen-pao King** 金神保 Lecturer
13. A Study of Korean Kyong-Ki Style Verses  
**Chu-San Chen** 陳祝三 Lecturer
14. Communist China's National Minority Policy  
**John Chung Kuan** 關中 Lecturer
15. The Political Marriage Relations of the Sui T'ang and Türküt  
**En-hsien Lin** 林恩顯 Lecturer
16. The Study of Making Effective Use of Language Laboratory in Training Junior High School Teachers of English  
**Ling King** 金陵 Lecturer

(3) **National Taiwan Normal University**

**Class A**

17. Generative Rules for Umlaut Noun Inflexions in Old English

**C. M. Yang** 楊景邁 Professor

18. Summary of the Period of Tu-fu's Poems

**Chen-Tung Li** 李辰冬 Professor

(4) **Provincial Chengkung University**

**Class A**

19. Behavioral Approaches to Organization Design—An Investigation to Organizational Models

**Ping-pang Kung** 龔平邦 Associate Professor

(5) **Tunghai University**

**Class A**

20. Chronological Biography of Meng Hao-jan

**Cheng-Tsu Yang** 楊承祖 Associate Professor

**Class B**

21. A Study on American Election of 1968

**Yu-sheng Chang** 張玉生 Lecturer

(6) **College of Chinese Culture**

**Class A**

22. A Study on the Laws of Larceny and Robbery in Yüan Dynasty

**Mao-song Lin** 林茂松 Associate Professor

23. The Socialization of the Liability for Torts and the Function of Liability Insurance

**Wen-ko Wen** 溫汝科 Associate Professor

(7) **Central Police Officers' College**

**Class A**

24. The Value of Firearms Identification on Crime Investigation

**Yuan-Ling Hsu** 徐遠齡 Instructor

(8) **Taichung Junior College of Commerce**

**Class B**

25. The Direct Claims of the Victims in an Automobile Liability Insurance

**Jung-yi Chen** 陳榮一 Lecturer



## C. BIOLOGICAL, MEDICAL AND AGRICULTURAL SCIENCES

### (1) National Taiwan University

#### Class A

26. Breeding of Cultivated Mushroom by Nutritional Forcing  
**Hsi-Hua Wang** 王西華 Professor
27. Studies of Thermal Treatment Effect on the Wood Properties  
**Shuen-chao Wu** 吳順昭 Professor
28. A Study on the Physiological Phases of Seed Germination in Lettuce (*Lactuca Sativa L.*)  
**Han Huang** 黃 涵 Associate Professor

#### Class B

29. Growth and Development of Parabiotic Rats under Forces Feeding  
**Wan-pang Pi** 畢萬邦 Lecturer
30. Mental Disorders among Immigrants from China Mainland to Taiwan after the Second World War Report II: Social Factors and Mental Disorders  
**Hung-ming Chu** 朱桓銘 Lecturer
31. The Study on the Population Density and Rearing Methods of the Braconid Wasps (*Apanteles* spp.)  
**Kai-kuang Ho** 何鑑光 Lecturer

### (2) Provincial Chunghsing University

#### Class A

32. Relative Efficiency of Various Experimental Designs Using the Dwarf Type Soybean Uniformity Trial Data  
**Chi-Hai Yu** 俞其海 Associate Professor

### (3) Kaohsiung Medical College

#### Class A

33. A Study on Normokalemic Primary Aldosteronism in Essential Hypertension  
**Zuei-Hsiung Tsai** 蔡瑞熊 Associate Professor
34. Studies on the States of Tyrosyl Residues in Cobrotoxin  
**Chun-Chang Chang** 張均昌 Associate Professor

### (4) Taipei Medical College

#### Class A

35. Electromicroscopic Structure of Normal Rabbit Aorta  
**Teh-Siu Huang** 黃德修 Associate Professor

**Class B**

36. A Study of Unsaponifiable Matters of Food Oils

**Meng-shiang Tang** 唐孟湘

Lecturer

(5) **Taiwan Forestry Experiment Station**

**Class B**

37. Experiment on Grafting and Observation of Flowering Features in *Castanopsis stipitata* (Hay.)

**Chin Ming Lü** 呂錦明

Specialist

(6) **Taiwan Agricultural Experiment Station**

**Class A**

38. Studies on the Basic Problems of Insecticide against Rice Planthoppers

**Chia-hwa Tao** 陶家驊

Senior Specialist

**Class C**

39. A Study on Cross Resistance in Rice Varieties to Three Species of Rice Green Leafhoppers

**Ching-Huan Cheng** 鄭清煥

Technical Assistant

(7) **Academia Sinica**

**Class B**

40. A Statistical Study on Evolutionary Operation

**Kuang-Kwei Wu** 武光夔

Assistant Research Fellow

**Class C**

41. A Study of Biological Control of Rice Leaf Blight Disease

**Su-ngo Yang** 楊素娥

Research Assistant

(8) **Taiwan Livestock Research Institute**

**Class A**

42. I. A Study on the Nutritive Value of Local Petroteum Protein

II. A Report of Feeding Lysine and Methionine as a Substitute for Soybean Oil Meal in Corn Ration on Growth, Feed Conversion and Carcass Quality of Growing Fattening Pigs

**Pang-Kan Lee** 李邦淦

Senior Specialist

(9) **Taiwan Tea Experiment Station**

**Class B**

43. A Study on Mean Time Life of Plucking Machine

**Phillip J. M. Ch'ang** 常昭鳴

Specialist

**(10) Taiwan Tobacco Experiment Station**

**Class B**

44. Use of Light to Prevent Early Flue-cured Tobacco

**Chie-Hsiu Sung** 宋繼修 Technician

**D. ENGINEERING AND APPLIED SCIENCES**

**(1) National Taiwan University**

**Class A**

45. Sensitivity Analysis in Optimum Control

**Chen-Fa Hsu** 許振發 Professor

**Class B**

46. The Consolidation Characteristics of Quaternary Sediments in Taipei Basin

**Ju-Jiang Hung** 洪如江 Lecturer

47. Photovoltaic Cell: Its Operation and Its Limitations

**Hui-Jung Yu** 于惠中 Lecturer

**(2) National Tsinghua University**

**Class B**

48. Delayed Neutron Parameters Measurement

**Li-chi Yuan** 袁立基 Lecturer

**(3) Provincial Chengkung University**

**Class A**

49. A Study on the Determination of Diffusion Coefficients by Means of Gas Chromatography Apparatus

**Ting-Chia Huang** 黃定加 Professor

**Class B**

50. A Study on the Disinfection Ability of Chlorine to Destroy Staphylococcus in Swimming Pool

**Kuo-Chun Tsai** 蔡國鈞 Lecturer

**(4) National Chiaotung University**

**Class A**

51. Logic Simplification with Computer-Oriented Factoring Algorithm

**Tseng-Sheng Hou** 侯楨生 Associate Professor

**(5) Aeronautic Industry Development Center**

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