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The 1972 *National Science Council (NSC) Review* covers the period from July 1971 to June 1972. Since it represents the termination of the First Four-Year Science Development Plan, it is high time for us to make a summarized report of the progress of various projects undertaken and achieved by NSC.

I. LONG-RANGE SCIENCE DEVELOPMENT PLANS

In response to the present and the future needs of the country, the Government of the Republic of China established in 1967 a Committee for Science Development under the National Security Council. In its capacity as an advisory unit to the President in the matter of science, the Committee has become the highest agency for policy making and resource allocation pertaining to the development of science and technology in the country. At the recommendation of the Committee, the National Council for Science Development (NCSD) was reorganized into the present National Science Council (NSC) as an independent agency under the Executive Yuan, entrusted to manage its budget as the National Science Fund, and to coordinate the implementation of scientific and technological activities of all Government agencies.

In the autumn of 1968, in pursuance of the instruction entitled "Important Responsibilities of Committee for Science Development" given by President Chiang Kai-shek, a sequence of three Four-Year Science Development Plans was mapped out for the purpose of meeting the science requirements of the educational, industrial, agricultural and social development of the country. The master program emphasizes three major directions as follows:

1. Science Education—the strengthening of science education in the entire education system from the elementary school up.
2. Science Research—the stepping up of science research both in pure and in applied sciences as well as humanities and social sciences.
3. Coordination between Economic Reconstruction and Scientific and Technological Development—the bridging of the gap between the academic institutions and the practical application as required in such areas as industry, agriculture, communications, medicine, and public health.

These tasks are designed to achieve two basic objectives: namely, the training of an adequate scientific and technological manpower to attain a measure of academic independence, and the carrying out of research and development in certain scientific and technological fields to meet the nation's urgent and future needs of knowhow for economic and social developments.

The First Four-Year Science Development Plan started in FY 1969 and the annual science fund dramatically grew, for example, from a mere sum of NT\$ 30,000,000, of the first annual science development fund for 1959-60 to NT\$ 320,000,000 for FY 1969, which represents a 1,000% increase of the fund from the first allocation nine years ago. The fund has further increased to NT\$ 420,000,000 for the FY 1972, which again

registers an increase of 25% over that of the FY 1969. (The exchange rate at that period was US\$1 to NT\$40).

For the convenience of reference a chart to summarize and itemize the distribution of the Science Development Fund will be useful. The breakdown of the actual appropriation is listed as follows (See Chart A):

CHART A. Itemized Allocation of Science Development Fund for the First Science Development Plan FY 1969 to FY 1972

(Unit: NTS 1,000)

Article	Item	Section	Description	FY 1969	FY 1970	FY 1971	FY 1972
I.			Science Education and Cultivation of Scientific and Technological Manpower	87,849	132,619	113,937	128,020
	A.		Science Education	200	—	—	4,000
	B.		Translation of Well-known Science Books and Revision of Science Textbooks for Colleges & Universities	5,140	5,140	1,720	1,720
	C.		Research Grants to Individual Scholars	20,840	20,844	20,844	42,000
	D.		Contracted Professors	18,873	41,902	26,745	13,000
		1.	Visiting Professors from Overseas	5,488	11,902	11,902	13,000
		2.	Special Chairs	3,413	—	—	—
		3.	National Research Professors	9,972	30,000	14,843	—
	E.		Employment of Specialists from Overseas for Special Consultations	3,520	3,920	3,520	1,250
	F.		Fellowships for Advanced Studies Abroad	31,278	50,000	50,000	50,000
	G.		Manpower Surveys & Special Education	600	—	600	—
	H.		Scholarships for Science Graduate Students	2,478	3,313	3,708	—
	I.		Training of Science Admin. Personnel	720	2,500	2,800	2,800
	J.		Science Instrumentation & Documentation Center	4,200	5,000	4,000	13,250
II.			Basic Science Research	72,868	95,000	85,884	72,411
	A.		Special Subsidies for Academia Sinica	6,657	—	13,473	—
	B.		Supporting Funds for 5 Research Centers of Academia Sinica	19,811	50,000	65,000	50,000
	C.		Research in Biochemistry	—	—	—	8,000
	D.		Research Facilities, Equipment, and Instruments for Special Projects	46,400	45,000	74,115	14,411
		1.	Books & Instruments	42,000	39,900	7,411	3,411
		2.	Buildings (including Scholars' Quarters)	4,400	5,100	—	5,000

CHART A. (continued)

Article	Item	Section	Description	FY 1969	FY 1970	FY 1971	FY 1972
III.			Humanities & Social Social Sciences	6,906	7,500	7,700	15,000
IV.			Industrial Research & Applied Science Studies.	62,121	69,500	85,485	155,400
	A.		Industrial Research	26,500	18,500	20,600	20,600
		1.	Energy Resources Research for Industrial Development	16,000	10,450	3,000	4,000
		2.	Mining Research for Industrial Development	6,640	5,550	3,600	2,600
		3.	Steel Industrial Research	3,000	2,500	3,000	3,000
		4.	Industrial & Research Complex	860	—	11,000	11,000
	B.		Studies of Earth Sciences	—	750	1,125	2,000
	C.		Oceanographical Studies	12,797	10,000	17,860	28,000
	D.		Ship Model Experiments Laboratory	5,500	5,250	2,500	2,500
	E.		Electronics Research	3,000	5,000	7,500	7,500
	F.		Earthquake Research	—	—	—	15,000
	G.		Material Sciences & Industrial Chemistry Technology	—	—	—	12,500
	H.		Textile, Food, & Electronics Industry	—	—	—	15,000
	I.		Agricultural Research	8,324	20,000	24,000	30,000
	J.		Communications Research	1,500	4,500	5,900	7,300
	K.		Atmospheric Sciences (including Meteorology & Typhoon Studies)	4,500	5,500	6,000	15,000
V.			Research of Application of Atomic Energy for Practical Uses	—	—	1,950	2,500
VI.			Medical & Public Health Research	7,000	20,000	3,000	18,000
VII.			Promotion of Science Development & Miscellaneous Studies	10,094	7,965	10,309	32,080
	A.		Subsidies for Academic School Publications	1,166	1,124	1,000	1,000
	B.		International (Mainly Sino-US) Science Cooperations	1,800	—	—	15,000
	C.		Screening of Academic Research Papers & Editing & Publication of Reports	1,239	1,600	1,670	1,700
	D.		Science Seminars	1,000	1,500	1,385	1,700
	E.		Administrative Management	4,289	3,141	5,654	12,080
	F.		Support for Liaison Activities of Committee for Science Development	600	600	600	600

CHART A. (continued)

Article	Item	Section	Description	FY 1969	FY 1970	FY 1971	FY 1972
VIII.			Accumulated Reserve	54,867	29,081	10,835	5,015
	A.		Appropriation from Central Government	54,867	6,808	10,835	5,015
	B.		Contribution from Taiwan Prov. Gov't.	—	400	—	—
			TOTAL	301,705	351,665	324,100	428,406

II. THE PROGRESS OF THE FIRST FOUR-YEAR SCIENCE DEVELOPMENT PLAN

A. Objectives

The three objectives of the First Four-Year Science Development Plan, as has been stated above, are: 1. strengthening of science education in general; 2. cultivation of science research manpower; and 3. coordination between economic reconstruction and scientific and technological developments. These objectives are in effect pegged to the requirement of the current educational, industrial, agricultural and social developments of the nation as a whole. The coordination, for the purpose of better achievement of the objectives of NSC, is broadened to cover the assistance and support from various other government agencies such as Ministry of Education, Ministry of Economic Affairs, Joint Commission for Rural Reconstruction, Ministry of Communications, Ministry of National Defense, etc..

B. Summary of the Progress of Various NSC Programs

1. Science Education Programs

a. Assistance to Science Education

The science fund is used to support the research on the curricula, textbooks, and teaching method for science education at all levels of schools, compilation and publication of undergraduate and graduate reference books and other materials, and the cultivation of science teachers of all school levels.

b. Program of Individual Research Grants

An increasing number of research grants, expanded from 244 grants in 1960 to 776 in 1969, and further increased to 1,292 grants in 1972, have been awarded by NSC annually to university and college faculty members as well as scientists in public research institutions. This program substantially helps to keep scientists of the Republic of China better provided in their livelihood as each grant carries a stipend roughly equivalent to the teacher's or the researcher's regular salary. Being better provided financially, the scientists naturally find it easier to devote their full time to his research and teaching duties.

Chart B will show the number of scholars awarded such a grant and the total sum of NSC expenditure in this respect:

**CHART B. Number of Science Scholars Awarded Individual Research Grants and
NSC Appropriation for the Grants from FY 1960 to FY 1972**

Classification	FY	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	Total Number of Science Scholars
a. Natural & Math. & Engi- neering															
(1) Class A		49	79	99	94	111	115	135	174	144	156	165	156	185	1,662
(2) Class B		46	67	102	75	89	84	95	120	130	117	128	145	116	1,314
(3) Class C												30	58	162	250
(4) Class D														71	71
Total		95	146	201	169	200	199	230	294	274	273	223	359	534	3,297
b. Biological, Agricultural, & Medical Sciences															
(1) Class A		52	82	105	116	127	114	144	132	123	137	141	139	126	1,538
(2) Class B		26	66	105	114	110	100	74	133	128	140	109	107	77	1,289
(3) Class C												57	84	157	298
(4) Class D														93	93
Total		78	148	210	230	237	214	218	265	251	277	307	330	453	3,218
c. Humanities & Social Sci- ences															
(1) Class A		45	64	83	100	105	118	140	157	133	140	152	157	136	1,530
(2) Class B		26	32	39	59	67	79	94	87	104	86	76	71	84	904
(3) Class C												23	20	69	112
(4) Class D														16	16
Total		71	96	122	159	172	197	234	244	237	226	251	248	305	2,562

CHART B. (continued)

Classification	FY	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	Total Number of Science Scholars
Total of															
(1) Class A		146	225	287	310	343	347	419	463	400	433	458	452	447	4,730
(2) Class B		98	165	346	248	266	263	263	340	362	343	313	323	277	3,507
(3) Class C												110	162	388	660
(4) Class D														180	180
Total		244	390	533	558	609	610	682	803	762	776	881	937	1,292	9,077
Appropriation (unit: NT\$1,000)		3,698.4	5,521.2	7,627.2	8,227	11,040	11,040	13,824	15,120	15,120	20,840	20,844	20,844	42,000	
Grand Total:														195,746	

Remarks: From 1960 to 1971 Class A is awarded to professors and Associate Professors or Research Fellows and Associate Research Fellows
Class B to Instructors and Lecturers or Assistant Research Fellows
Class C to Assistants or Research Assistants

The classification to non-academic institutions is given to the equivalents.

Beginning 1972, the classification is changed as follows:

- Class A: to Professors or Research Fellows or Their Equivalents
- Class B: to Associate Professors or Associate Research Fellows or Their Equivalents
- Class C: to Instructors or Lecturers or Assistant Research Fellows or Their Equivalents
- Class D: to Assistant or Research Assistants or Their Equivalents

c. Program of Facilities, Equipment and Instruments

A considerable fund is earmarked for subsidizing the Government-operated universities, colleges, and research institutions to procure facilities, buildings, books, periodicals, equipment and instruments for research use. To support the research efforts of individual scholars as well as research institutes of various schools, the Science Instrumentation & Documentation Center was founded in 1968 for the collections of latest scientific and technological data from all over the world and for the compilation of joint bibliographies of science, indexes of patented items, publication of book reviews and digests of science and technology, and for the design of laboratory apparatuses and teaching aids. The funds for the program over the recent years are listed in Chart C as follows:

**CHART C. Government Appropriations and U. S. Aid in Support of the
Procurement of Facilities, Equipment & Instruments
from FY 1958 to FY 1972**

FY	Funds	Government Appropriations	U. S. Aid (Unit: NT\$)
1958		740,000	22,305,472
1960		2,260,000	35,682,447
1961		2,800,000	28,723,858
1962		8,199,516	44,593,367
1963		5,064,872	19,773,181
1964		5,000,000	988,000
1965		11,400,000	
1966		13,204,745	
1967		12,640,000	
1968		13,356,442	
1969		80,500,000	
1970		45,000,000	
1971		4,411,000	
1972		9,411,000	
Total		213,987,575	152,066,325

d. National Research Professorships Program

The program was carried out from FY 1961 to FY 1968 for supporting the special projects implemented by those competent professors appointed as National Research Professors. However, the program was terminated in FY 1969 and has been integrated with the Program of Research Grants to Special Projects. The former program has been appropriated the funds as follows:

**CHART D. Funds for the Program of National Research Professorships
from FY 1961 to FY 1962**

(Unit: NT\$)

FY	Appropriations	FY	Appropriations
1961	3,243,622	1967	1,884,000
1962	2,653,378	1968	1,884,000
1963	2,527,470	1969	(Integrated into the Program of Research Grants to Special Projects)
1964	3,000,000		
1965	3,000,000		
1966	3,000,000	Total	21,192,470

e. Special Chairs Program

The Special Chairs are appointed to those veteran and brilliant professors with splendid achievement in their respective fields of study as an encouragement to their good work. However, it was terminated in Academic Year (AY) 1969. Before the beginning of the First Four-Year Science Development Plan, NSC appropriated the funds to this program for nine years as shown in CHART E as follows:

CHART E. Funds for Special Chairs Program from AY 1960 to AY 1968

Academic Year	Specialized Field of Study	Number of Special Chairs	Total	Appropriation (Unit: NT\$)
1660	Natural & Math. Sciences & Engineering Science	10		
	Biol., Agricultural & Medical Sciences	7		
	Humanities & Soc. Sciences	14	31	302,000
1961	Natural & Math. & Engineering Sciences	9		
	Biol., Agricul. & Med. Sciences	7		
	Humanities & Soc. Sciences	15	31	481,500
1962	Nat. & Math. & Engin. Sciences	10		
	Biol., Agri. & Med. Sciences	5		
	Human. & Social Sciences	14	29	520,000
1963	Nat. & Math. & Engin. Sciences	12		
	Biol., Agric., & Med. Sciences	8		
	Human. & Social Sciences	14	34	960,000
1964	Nat. & Math. & Engin. Sciences	12		
	Biol., Agric., & Med. Sciences	8		
	Human. & Social Sciences	14	34	1,440,000
1965	Nat. & Math. & Engin. Sciences	13		
	Biol., Agric. & Medical Sciences	12		
	Human. & Social Sciences	15	40	1,920,000

CHART E. (Continued)

Academic Year	Specialized Field of Study	Number of Special Chairs	Total	Appropriation (Unit: NT\$)
1966	Nat. & Math. & Eng. Sciences	17	52	2,220,000
	Biol., Agric. & Medical Sciences	20		
	Human. & Social Sciences	15		
1967	Nat. & Math. & Engin. Sciences	21	53	2,220,000
	Biol., Agric. & Medical Sciences	19		
	Human. & Social Sciences	13		
1968	Nat. & Math. & Engin. Sciences	21 (Nat. & Math. 18, Eng. 3)	60	5,952,000
	Biol., Agric. & Med. Sciences	20		
	Human. & Social Sciences	19		
Total	Nat. & Math. & Engin. Sciences	125	364	16,015,500
	Biol., Agric. & Med. Sciences	106		
	Human. & Social Sciences	133		

f. National Visiting Professors Program

From 1962 to 1971 a total of 827 scholars, mostly Chinese, are invited from abroad under the National Visiting Professors Program, which is planned as an avenue to attract science talents from abroad to join in the science development work in Taiwan; besides, the scholars invited are expected to introduce new science knowledge & technology from scientifically advanced countries to the Republic of China so that we may keep up with the progress of the world. A considerable number of them, after the termination of their contracts, chose to stay on in Taiwan and became permanent faculty members of the colleges in the Republic of China. The details of the scholars invited under the National Visiting Professors Program over the years are listed as follows:

CHART F. Number of Scholars Invited Under National Visiting Professors Program from Academic Year 1962 to AY 1971

Academic Year	Natural and Math. Sciences and Engineering Science	Biological Agricultural & Medical Sc.	Humanities & Social Sciences	Total	Appropriation (Unit: NT\$)
1962	1	2		3	U. S. Aid
1963	2	1		3	864,000
1964	13	2	1	16	1,220,000
1965	15	2	1	18	1,983,600
1966	30	10	1	41	3,967,200
1967	47	10	3	60	3,967,200
1968	57	24	13	94	7,934,400
1969	76	40	21	137	11,901,600
1970	128	54	36	218	11,901,600
1971	146	58	33	237	13,000,000
Total	515	203	109	827	56,739,600

g. Program of Fellowships for Advanced Studies Abroad

Beginning FY 1961 a Fellowship Program was introduced for both senior and junior scientists in Taiwan to take more advanced science courses abroad for one year (for senior scientists) or two (for junior scientists). All grantees are permitted to retain their full salaries and fringe benefits from their affiliated institutions. This program is planned for the purpose of bringing into Taiwan the modern science knowledge and technology urgently needed for the economic reconstruction and the promotion of science education of the country through the science scholars having gone through modern training and research experience in scientifically advanced countries for a period of time. The details of this Program are listed as follows (see CHART G).

2. *Basic Science Research*

a. Research Centers

Five research centers were formed in 1965 as the initial step toward beefing up postgraduate training and upgrading the quality of research work in Taiwan by pooling school faculties and facilities for greater efficiency and to avoid duplication of efforts. Jointly supported by NSC and the Council for International Economic Cooperation and Development, the centers have each a sponsoring institute and one or two co-sponsoring institutes. Each of the centers is located on the premises of the sponsoring institute. However, the facilities and faculty members of the co-sponsoring institutes are also available to it. The five research centers are as follows:

- (a) Mathematics Research Center with the National Taiwan University as the sponsoring institute, and Academia Sinica and the National Tsinghua University as the co-sponsoring institutes.
- (b) Physics Research Center with the National Tsinghua University as the sponsoring institute and Academia Sinica and the National Taiwan University as the co-sponsoring institutes.
- (c) Chemistry Research Center with the National Taiwan University as the sponsoring institute and Academia Sinica as the co-sponsoring institute.
- (d) Biology Research Institute with Academia Sinica as the sponsoring institute and the National Taiwan University as the co-sponsoring institute.
- (e) Engineering Research Center with the National Chengkung University as the sponsoring institute and the National Taiwan University and the National Chiaotung University as the co-sponsoring institutes.

In addition to the above five Research Centers, an Agriculture Research Center was established in 1969 with the funds provided by NSC and the Joint Commission for Rural Reconstruction, with National Taiwan University as the sponsoring institute and National Chunghsing University and Taiwan Agricultural Research Institute as the Co-sponsoring institutes. About 800

CHART G. Fellowships Program FY 1961 to FY 1972

FY	Classifi- cation	Division Nat. & Math. Sciences	Engin. & Applied Sc.	Biol., Agric. & Med. Sc.	Human. & Soc. Sciences	Science Education	Country Where They Are Trained				Total	Appropriation (Unit: NT\$)
							US	Eng.	Fr.	Jap.	Eur.	
1961	Class A	9		4	2		10		1	4		15
	Class B	3		2	3		6			2		8
	Total	12		6	5		16		1	6		23
1962	Class A	7		6	4		14	1		1	1	17
	Class B	4		2	2		6	2				8
	Total	11		8	6		20	3		1	1	25
1963	Class A	5		2	6		10	1	1	1		13
	Class B	5		6			6		1	3	1	11
	Total	10		8	6		16	1	2	4	1	24
1964	Class A	6		4	2		7			4	1	12
	Class B	8		3	2		8	1		3	1	13
	Total	14		7	4		15	1		7	2	25
1965	Class A	6		6	1		10			3		13
	Class B	6		1	5		10			2		12
	Total	12		7	6		20			5		25
1966	Class A	5		6	4		12	1		1	1	15
	Class B	6		3	4		12	1				13
	Total	11		9	8		24	2		1		28
1967	Class A	4		5	4		8	1		4		13
	Class B	6		4	3		9	2		1	1	13
	Total	10		9	7		17	3		5	1	26

CHART G. (Continued)

FY	Classification	Division Nat. & Math. Sciences / Engin. & Applied Sc.	Biol., Agric. & Med. Sc.	Human. & Soc. Sciences	Science Education	Country Where They Are Trained				Total	Appropriation (Unit: NT\$)
						US	Eng.	Fr.	Jap.	Eur.	
1968	Class A	5	7	9	2	24	2		4		30
	Class B	5	4	5	2	14	2		3	2	21
	Total	10	11	14	4	38	4		7	2	51
1969	Class A	7	8	14	2	23	2		13	2	40
	Class B	12	14	6	5	46			4	1	51
	Total	19	22	20	7	69	2		17	3	91
1970	Class A	11	9	11		25	1		8	3	37
	Class B	12	16	19		65			7	2	74
	Total	23	25	30		90	1		15	5	111
1971	Class A	9	11	11		26	2		13	2	43
	Class B	20	22	11		77	1		4	2	84
	Total	29	33	22		103	3		17	4	127
1972	Class A	5	9	12		21	1		17	1	40
	Class B	19	22	11		69	1		4	2	84
	Total	24	31	23		90	2		21	3	124
Total	Class A	123	81	80	4	190	12	2	73	11	288
	Class B	184	122	71	7	328	10	1	33	12	467
Grand Total		307	203	151	11	518	22	3	106	23	672

Remarks: (1) Class A for Professors, Associate Professors and their Equivalents: Permitted Stay Abroad for one year.

(2) Class B for Instructors, Lecturers, Assistants and Their Equivalents: for two years.

(3) Abbreviations: US=United States of America. Eng.=England. Fr.=France. Jap.=Japan. Eur.=Europe (Including West Germany, Netherlands, Canada, and Australia). Nat. & Math. Sciences=Natural and Mathematical Sciences. Engin. & Applied Sc.=Engineering and Applied Sciences (The above two divisions are combined from 1961 to 1967 & separated since 1968). Biol., Agric. & Med. Sc.=Biological, Agricultural and Medical Sciences. Human. & Soc. Sciences=Humanities and Social Sciences.

graduate students have been awarded the M.S. degrees at these centers while some Ph. D. degrees in natural sciences were awarded by home institutes for the first time in 1970.

Total NSC support for the research centers amount to between NT\$50,000,000 and NT\$60,000,000 annually. With construction needs and equipment largely satisfied, grants to the centers have been shifted from an institutional basis to a project basis.

b. Major Programs in Applied Science and Technology

(1) Industrial Research and Development

Efforts on industrial research and new products development are primarily the function of a number of government research labs under the Ministry of Economic Affairs. The Science Fund, however, plays a catalyst role in this area by selectively supporting on-going projects as well as to help seeding new projects. Industrial R & D projects completed and presently still under NSC support include energy resources development, mining and metallurgy, steel-making, polymer processing, ceramics, food processing, textile and electronic technology, and management science.

Beginning from 1969, as the government launched the first of three four-year science development plans, the Fund used in regard to industrial research and development amounted to the equivalent of US\$28 million, about 0.75% of GNP, including about US\$25 million from the Ministry of Economic Affairs and over \$2 million from the Science Fund. Funds granted to the Engineering Research Center and for more basic studies are not included.

(2) Studies of Electronics

NSC's support of the Studies of Electronics is primarily purported to boost the present and the future development of the electronics industry in Taiwan, which has grown from the very small scale electronics assembling industry before 1960 to an export of the electronics products amounting to US\$180,000,000 in 1970 and further grown to that export amounting to US\$300,000,000 in 1971. As the total capital investment has grown to US\$250,000,000, a closer cooperation between the industry and research institutes appears urgent and absolutely necessary.

In order to promote the electronics research for industrial application, NSC appropriated from FY 1969 to FY 1971 a total of NT\$15,000,000 (not including the NT\$9,778,000 to support the electronics research in the Engineering Research Center) to finance research on semi-conductors, hardware and software of computer systems, electromagnetic wave and electronic communication systems. The projects were carried out at the National Taiwan University, National Chiao Tung University and National Chengkung University.

(3) Experiments with Ship Model Basin

A Ship Hydrodynamics Laboratory was inaugurated at the National Taiwan University in 1970 with the support of funds from NSC for the purpose of carrying out research and training activities on naval architecture to meet the needs of Taiwan's young shipbuilding industry. The scope of its research activities cover the following areas: (a) Ship model test; (b) Ship hydrodynamics; (c) Primary ship designs; and (d) other aspects of naval architecture. For achieving the purported activities, the Laboratory is equipped with sea-keeping and maneuvering tanks, water circulation channel, wave generator and related instrumentations.

(4) Oceanography

Approximately NT\$70,000,000 has been appropriated by NSC for the study of oceanography over the past four years. Its breakdown is roughly as follows:

- (a) NT\$12,000,000 for the installation of laboratories.
- (b) NT\$18,000,000 for refitting a research vessel named Chiu Lien (secured from the U.S. on loan).
- (c) NT\$28,000,000 for equipping the vessel with up-to-date geophysical instruments and facilities for physical and chemical oceanographic research as well as marine and fishery research facilities.
- (d) More than NT\$5,000,000 for procurement of books, periodicals and reference materials and instruments.

The emphasis of oceanographic research efforts is placed upon marine geology, ocean currents and upwelling phenomena, algae and plankton distribution, fish ecology and fishery biology, and coral reefs in waters around Taiwan.

To implement the multiple purposes of the program, an Institute of Oceanography was established at the National Taiwan University on August 1, 1968. Besides tackling the projects as stated above, the Institute also participates in the international cooperative oceanographic research of the South China Sea and other areas with neighboring countries.

(5) Seismology

An Earthquake Research Project introduced and organized in 1970 with the task to complete the installation of a modern seismological monitory network in Taiwan by the end of 1972 with the computerized data processing through telemetering. The installation of the telemetered monitoring system in Taiwan and its outlying islands, NT\$20,000,000 was appropriated by NSC in its FY 1971 budget. In the next five years a pertinent program has been adopted for sending young scientists to the U.S. and Japan for advanced studies

and training in seismology, earthquake engineering, and the related fields so as to enable them to tackle much of the sophisticated operation of the system. Projects are now also under way for detailed analysis for data acquired by strong-motion seismographs at major population centers and engineering sites with a view to devising more relevant building codes and structural standards.

(6) Atmospheric Research

Since Taiwan is located on the path of typhoon formed in the northwestern Pacific, damage and loss caused by typhoon were tremendous.

In FY 1971, NSC initiated the program for Typhoon Research aiming at the exploration of a better preventive measures to minimize the losses to the lowest possible.

The program is carrying out by the National Central University, The Institute of Physics of Academia Sinica, and the Department of Geography of the National Taiwan University, etc..

In addition, a Sino-American Seminar on Typhoon was held in the United States in 1971 for exchange of technical information which is helpful to the research program.

Besides, to cope with the economic development, NSC has also launched or assisted a number of research program on applied science in Material Science Chemical Industry, Textile Food Processing, Farm Machinery and other agricultural projects.

(7) Agricultural Research

Agricultural research activities being carried out in Taiwan include crop science, animal husbandary, marine and fishery products, forestry and agricultural engineering.

Due to the rapid industrialization and the decreasing of the cultivated land, recent research efforts are therefore channeled to the breeding of nutrition-rich, high yield and disease-resistant varieties in crop such as rice, corn and sweet-potato.

Since 1970, about US\$ 2.24 million has been distributed to JCRR for the support of the most field experiments. US\$ 400,000 for the Asian Vegetable Research and Development Center for the development of new vegetable varieties.

(8) Medical Research Program

Efforts on medical research are primarily on anti-cancer drugs of plant origin, local diseases, reproductive physiology, nutrition, and acupuncture.

Since 1970, an amount equivalent to US\$ 1.7 million fund has been distributed to the following institutes for carrying out above researches:

College of Medicine, National Taiwan University
National Defense Medical Center

Public Health Administration, Executive Yuan

Taiwan Provincial Health Department

Several Sino-America cooperative programs have also been carried out in both two countries. Since 1966, the University of Wisconsin and the Cancer Institute have been working with the Taiwan's institutes in search of anticancer drugs.

III. SINO-AMERICAN COOPERATION IN SCIENCE

A. Objectives

International science cooperation has played an important role in Taiwan's science development right from its beginning. The achievements made in the past decade, though modest in absolute terms yet significant in starting an autocatalytic process, owed substantially to diverse international exchange programs and joint research ventures, particularly the large number of programs with the United States.

For the purposes of cultivating the foundation for science technological development, of introducing new scientific technology to the Republic of China and strengthening international ties of various research institutes, the Republic of China has inaugurated several international cooperation programs with Japan, Korea, and other Asian countries. Nevertheless, Sino-American cooperation in science has grown more and more important as more and more exchange programs have been implemented and they have benefited the country in its science development more greatly than any other international cooperation programs.

B. U.S.-China Cooperative Science Program

As Sino-American cooperation in science gained momentum, an exchange of notes between the two countries took place on January 23, 1969, inaugurating a comprehensive new framework for bilateral cooperation known as the US-China Cooperative Science Program. The U.S. National Science Foundation and the Chinese National Science Council were designated to be joint implementing agencies. Four types of cooperative activities have been sponsored by the implementing agencies as follows:

1. Short-term exchange of scientists, with the objective in widening the contacts between the two scientific communities.
2. Long-term exchange of scientists, with the objective primarily of enabling scientists of one country to do research in another with host investigators sharing the same interest.
3. Cooperative research projects, which differ from long-term exchanges in that interested scientists of the two countries usually work on different aspects of the same problem separately but are enabled to visit each other by the implementing agencies.
4. Bi-national seminars, designed not only to increase interaction between U.S. and Chinese scientists on a group basis, but also to generate new interest in cooperative research.

C. Direct and Indirect Achievements of the Cooperation Program

Though it takes much longer time to judge the achievements of the U.S.-China Cooperative Science Program, yet the influences have begun to be felt here in Taiwan. According to the First Status Report jointly prepared in 1972 by the two implementing agencies stated above on its preliminary evaluation of the program activities it has listed the following direct and indirect achievements of the Program:

1. The Program has stimulated Taiwan's graduate program and advanced research.
2. The bilateral exchange of visit has achieved the objective of widening contacts between the two scientific communities.
3. The visit of U.S. scientists to Taiwan has made it possible for their hosts to benefit directly from the visitors' experience and expertise in planning of Taiwan's scientific research.
4. Their visit also helps to introduce new science and technology into the Republic of China.
5. The exchange of visits under the Program has served to better the science education in Taiwan.

In order to better serve the interests and needs of the two scientific communities, the implementing agencies have been in close consultation to review priority areas of interest and to revamp the modes of implementation.

IV. OTHER INTERNATIONAL SCIENCE COOPERATIVE PROGRAMS

Both before and after the forced withdrawal of the Republic of China's United Nations membership, and consequently the abrupt termination in Taiwan of nearly all the scientific and technological programs under the auspices of the U.N. in Taiwan, the Republic of China has spared no efforts in seeking for bilateral arrangements connecting Taiwan's scientists with the world scientific community, most notably with the Republic of Korea, Republic of Vietnam, Australia, Thailand, and Japan, in addition to the ties with the U.S. as stated above. The Chinese Government, fully aware of the intimate relationship between U.N. technological programs (under UNDP and with the assistance of UNESCO, WHO, WMO, UNIDO, etc. with a total annual budget in excess of US\$2,000,000) and our economic development needs, has actively studied the situation and formulated contingency plans to carry on selectively the aborted U.N. programs. Being deprived of the assistance of U.N. affiliated organizations and UN Specialized agencies in technological planning and pilot-plant development, we have done our best to substitute effective bilateral or regional arrangements for the assistance of U.N. agencies. Therefore, more frequent contacts with the scientific communities of all friendly nations are maintained, and from time to time joint ventures of research cooperation have been made, of which the NSC has played an important part.

CONTENTS

INTRODUCTION

I. RECIPIENTS OF RESEARCH GRANTS 研究補助費

A. NATURAL AND MATHEMATICAL SCIENCES 自然科學及數學 1

1. Academia Sinica 中央研究院
2. National Taiwan University 國立臺灣大學
3. National Chengchi University 國立政治大學
4. National Tsinghua University 國立清華大學
5. National Chiaotung University 國立交通大學
6. National Chungyang University 國立中央大學
7. National Taiwan Normal University 國立臺灣師範大學
8. National Chengkung University 國立成功大學
9. National Chunghsing University 國立中興大學
10. Chungcheng College of Sciences and Engineering 中正理工學院
11. Chinese Air Force Academy 空軍軍官學校
12. Air Communication & Electronics School, Chinese Air Force 空軍通信電子學校
13. Fujen University 私立輔仁大學
14. Tunghai University 私立東海大學
15. Tamkang College of Arts & Sciences 私立淡江文理學院
16. Chung Yuan Christian College of Science and Engineering 私立中原理工學院
17. Taipei Medical College 私立臺北醫學院
18. Tatung Institute of Technology 私立大同工學院
19. College of Chinese Culture 私立中國文化學院
20. Provincial Taipei Institute of Technology 省立臺北工業專科學校
21. Provincial Pingtung Junior College of Agriculture 省立屏東農業專科學校
22. Ming Hsing Junior College of Technology 私立明新工業專科學校
23. Tajen Junior College of Pharmacology 私立大仁藥學專科學校
24. Tamsui Oxford Junior College 私立淡水工商管理專科學校
25. Taiwan Sugar Experiment Station 臺糖公司糖業試驗所
26. Taiwan Provincial Institute of Geological Survey 臺灣地質調查所
27. Central Weather Bureau 中央氣象局
28. Taiwan Fishery Research Institute 臺灣省水產試驗所
29. Taiwan Provincial Hygienic Laboratory 臺灣省環境衛生試驗所
30. Taiwan Livestock Research Institute 臺灣畜產試驗所
31. Taiwan Fertilizer Company 臺灣肥料公司
32. Chinese Petroleum Corporation 中國石油公司

33. Chiayee Solvent Works, Chinese Petroleum Corporation 中國石油公司嘉義溶劑廠	
34. Bureau of Commodity Inspection & Quarantine, Ministry of Economic Affairs 經濟部商品檢驗局	
35. Mining Research & Service Organization, MOEA 經濟部聯合鑛業研究所	
36. Union Industrial Research Institute, MOEA 經濟部聯合工業研究所	
37. Chinese Air Force, Weather Central 空軍氣象中心	
B. BIOLOGICAL, AGRICULTURAL AND MEDICAL SCIENCES	
生物及醫農科學	16
1. Academia Sinica 中央研究院	
2. National Taiwan University 國立臺灣大學	
3. National Taiwan Normal University 國立臺灣師範大學	
4. National Chunghsing University 國立中興大學	
5. National Defense Medical Center 國防醫學院	
6. Tunghai University 私立東海大學	
7. Kaohsiung Medical College 私立高雄醫學院	
8. Taipei Medical College 私立臺北醫學院	
9. Provincial Chiayi Junior College of Agriculture 省立嘉義農業專科學校	
10. Provincial Pingtung Junior College of Agriculture 省立屏東農業專科學校	
11. Provincial Hsinchu Junior College of Agriculture 省立新竹農業專科學校	
12. Chungshan Medical and Dental Junior College 私立中山醫學專科學校	
13. Taiwan Sugar Experiment Station 臺糖公司糖業試驗所	
14. Taiwan Agricultural Research Institute 臺灣省農業試驗所	
15. Taiwan Forestry Research Institute 臺灣省林業試驗所	
16. Wines Research Institute 臺灣省菸酒公賣局酒類試驗所	
17. Tobacco Research Institute 臺灣省菸酒公賣局菸葉試驗所	
18. Taiwan Fishery Research Institute 臺灣省水產試驗所	
19. Kaohsiung District Agricultural Improvement Station 高雄區農業改良場	
20. Tainan District Agricultural Improvement Station 臺南區農業改良場	
21. Taichung District Agricultural Improvement Station 臺中區農業改良場	
22. Taiwan Seed Service, Provincial Dept. of Agriculture and Forestry 農林廳種苗繁殖場	
23. Taiwan Tea Experiment Station 臺灣省茶葉改良場	
24. Provincial Research Institute for Animal Health 臺灣家畜衛生試驗所	
25. Taiwan Livestock Research Institute 臺灣省畜產試驗所	
26. Yangmei Branch Station, Taiwan Livestock Research Institute 臺灣省畜產試驗所楊梅分所	
27. Taiwan Fertilizer Company 臺灣肥料公司	
28. Taiwan Serum Vaccine Laboratory 臺灣省血清疫苗製造所	
29. Provincial Maternal & Child Health Institute 臺灣省婦幼衛生研究所	
30. Chiayee Solvent Works, Chinese Petroleum Corporation 中國石油公司嘉義溶劑廠	

31. Bureau of Commodity Inspection and Quarantine 經濟部商品檢驗局
32. The Institute of Fishery Biology, (Jointly Sponsored by) Ministry of Economic Affairs & National Taiwan University 經濟部與國立臺灣大學合辦漁業生物試驗所
33. Chiayi Agricultural Experiment Station, Taiwan Agricultural Research Institute 農業試驗所嘉義分所
34. Tainan Fiber Crops Experiment Station, Taiwan Agricultural Research Institute 農業試驗所臺南棉麻檢驗分所
35. Taipei District Agricultural Improvement Station 臺灣省臺北區農業改良場
36. Provincial Taiwan Tuberculosis Control Bureau 臺灣省防務局

C. ENGINEERING AND APPLIED SCIENCES 工程及應用科學50

1. National Taiwan University 國立臺灣大學
2. National Chengchi University 國立政治大學
3. National Tsinghua University 國立清華大學
4. National Chiao Tung University 國立交通大學
5. National Chungyang University 國立中央大學
6. National Taiwan Normal University 國立臺灣師範大學
7. National Chengkung University 國立成功大學
8. National Chungshing University 國立中興大學
9. Provincial College of Marine and Oceanic Technology 省立海洋學院
10. Chungcheng College of Science and Engineering 中正理工學院
11. Chinese Army Academy 陸軍軍官學校
12. Chinese Air Force Academy 空軍軍官學校
13. Fugen University 私立輔仁大學
14. Tunghai University 私立東海大學
15. Tamkang College of Arts and Sciences 私立淡江文理學院
16. Tatung Institute of Technology 私立大同工學院
17. National Taiwan Junior College of Fine Arts 國立臺灣藝術專科學校
18. Provincial Taipei Institute of Technology 省立臺北工業專科學校
19. Provincial Kaohsiung Institute of Technology 省立高雄工業專科學校
20. Radio Administration, Ministry of Communications 交通部國際電訊局
21. Atomic Energy Council, Executive Yuan 行政院原子能委員會
22. Taiwan Sugar Experiment Station 臺糖公司糖業試驗所
23. Taiwan Forestry Research Institute 臺灣省林業試驗所
24. Aeronautical Research Laboratory, Aero-Industry Development Center 空軍航空工業發展中心
25. Wines Research Institute, Taiwan Tobacco & Wine Monopoly Bureau 臺灣省菸酒公賣局酒類試驗所
26. Taiwan Institute of Environmental Sanitation 臺灣省環境衛生試驗所
27. Chinese Petroleum Corporation 中國石油公司
28. Chiayee Solvent Works, Chinese Petroleum Corporation 中國石油公司嘉義溶劑廠

29. Bureau of Commodity Inspection and Quarantine 經濟部商品檢驗局
30. Union Industrial Research Institute 經濟部聯合工業研究所
31. Metal Industries Research Institute 經濟部金屬工業研究所
32. Telecommunication Laboratories, Ministry of Communications 交通部電信總局電話研究所
33. Taiwan Freeway Construction Bureau 高速公路工程局
34. Water Resources Planning Commission 經濟部水資源委員會
35. Taiwan Fishery Research Institute 臺灣省水產試驗所
36. Taiwan Water Conservancy Bureau 臺灣省水利局
37. Taiwan Shipbuilding Corporation 臺灣造船公司

D. HUMANITIES AND SOCIAL SCIENCES 人文及社會科學66

1. Academia Sinica 中央研究院
2. National Taiwan University 國立臺灣大學
3. National Chengchi University 國立政治大學
4. National Taiwan Normal University 國立臺灣師範大學
5. National Chengkung University 國立成功大學
6. National Chungshing University 國立中興大學
7. Provincial College of Marine and Oceanic Technology 臺灣省立海洋學院
8. Chinese Air Force Academy 空軍軍官學校
9. Chinese Navy Academy 海軍軍官學校
10. National Defense Medical Center 國防醫學院
11. Political Warfare College 政治作戰學校
12. Fujen University 私立輔仁大學
13. Tunghai University 私立東海大學
14. Soochow University 私立東吳大學
15. College of Chinese Culture 私立中國文化學院
16. Central Police College 中央警官學校
17. Taiwan Provincial Pingtung Junior College of Agriculture 省立屏東農業專科學校
18. Taiwan Provincial Hualien Junior College for Teachers 省立花蓮師範專科學校
19. Taiwan Provincial Junior College of Nursing 省立護理專科學校
20. Taiwan Provincial Pingtung Junior College for Teachers 省立屏東師範專科學校
21. Taiwan Sugar Experiment Station 臺糖公司糖業試驗所

II. RECIPIENTS OF SEMI-ANNUAL RESEARCH GRANTS 半年研究補助費

- A. NATURAL AND MATHEMATICAL SCIENCES 自然科學及數學89
- B. BIOLOGICAL, AGRICULTURAL, AND MEDICAL SCIENCES 生物及醫農科學..90
- C. ENGINEERING AND APPLIED SCIENCES 工程及應用科學91
- D. HUMANITIES AND SOCIAL SCIENCES 人文及社會科學92

INDEX94



The 1972 *National Science Council (NSC) Review* covers the period from July 1971 to June 1972. Since it represents the termination of the First Four-Year Science Development Plan, it is high time for us to make a summarized report of the progress of various projects undertaken and achieved by NSC.

I. LONG-RANGE SCIENCE DEVELOPMENT PLANS

In response to the present and the future needs of the country, the Government of the Republic of China established in 1967 a Committee for Science Development under the National Security Council. In its capacity as an advisory unit to the President in the matter of science, the Committee has become the highest agency for policy making and resource allocation pertaining to the development of science and technology in the country. At the recommendation of the Committee, the National Council for Science Development (NCSD) was reorganized into the present National Science Council (NSC) as an independent agency under the Executive Yuan, entrusted to manage its budget as the National Science Fund, and to coordinate the implementation of scientific and technological activities of all Government agencies.

In the autumn of 1968, in pursuance of the instruction entitled "Important Responsibilities of Committee for Science Development" given by President Chiang Kai-shek, a sequence of three Four-Year Science Development Plans was mapped out for the purpose of meeting the science requirements of the educational, industrial, agricultural and social development of the country. The master program emphasizes three major directions as follows:

1. Science Education—the strengthening of science education in the entire education system from the elementary school up.
2. Science Research—the stepping up of science research both in pure and in applied sciences as well as humanities and social sciences.
3. Coordination between Economic Reconstruction and Scientific and Technological Development—the bridging of the gap between the academic institutions and the practical application as required in such areas as industry, agriculture, communications, medicine, and public health.

These tasks are designed to achieve two basic objectives: namely, the training of an adequate scientific and technological manpower to attain a measure of academic independence, and the carrying out of research and development in certain scientific and technological fields to meet the nation's urgent and future needs of knowhow for economic and social developments.

The First Four-Year Science Development Plan started in FY 1969 and the annual science fund dramatically grew, for example, from a mere sum of NT\$ 30,000,000, of the first annual science development fund for 1959-60 to NT\$ 320,000,000 for FY 1969, which represents a 1,000% increase of the fund from the first allocation nine years ago. The fund has further increased to NT\$ 420,000,000 for the FY 1972, which again

registers an increase of 25% over that of the FY 1969. (The exchange rate at that period was US\$1 to NT\$40).

For the convenience of reference a chart to summarize and itemize the distribution of the Science Development Fund will be useful. The breakdown of the actual appropriation is listed as follows (See Chart A):

CHART A. Itemized Allocation of Science Development Fund for the First Science Development Plan FY 1969 to FY 1972

(Unit: NTS 1,000)

Article	Item	Section	Description	FY 1969	FY 1970	FY 1971	FY 1972
I.			Science Education and Cultivation of Scientific and Technological Manpower	87,849	132,619	113,937	128,020
	A.		Science Education	200	—	—	4,000
	B.		Translation of Well-known Science Books and Revision of Science Textbooks for Colleges & Universities	5,140	5,140	1,720	1,720
	C.		Research Grants to Individual Scholars	20,840	20,844	20,844	42,000
	D.		Contracted Professors	18,873	41,902	26,745	13,000
		1.	Visiting Professors from Overseas	5,488	11,902	11,902	13,000
		2.	Special Chairs	3,413	—	—	—
		3.	National Research Professors	9,972	30,000	14,843	—
	E.		Employment of Specialists from Overseas for Special Consultations	3,520	3,920	3,520	1,250
	F.		Fellowships for Advanced Studies Abroad	31,278	50,000	50,000	50,000
	G.		Manpower Surveys & Special Education	600	—	600	—
	H.		Scholarships for Science Graduate Students	2,478	3,313	3,708	—
	I.		Training of Science Admin. Personnel	720	2,500	2,800	2,800
	J.		Science Instrumentation & Documentation Center	4,200	5,000	4,000	13,250
II.			Basic Science Research	72,868	95,000	85,884	72,411
	A.		Special Subsidies for Academia Sinica	6,657	—	13,473	—
	B.		Supporting Funds for 5 Research Centers of Academia Sinica	19,811	50,000	65,000	50,000
	C.		Research in Biochemistry	—	—	—	8,000
	D.		Research Facilities, Equipment, and Instruments for Special Projects	46,400	45,000	74,115	14,411
		1.	Books & Instruments	42,000	39,900	7,411	3,411
		2.	Buildings (including Scholars' Quarters)	4,400	5,100	—	5,000

CHART A. (continued)

Article	Item	Section	Description	FY 1969	FY 1970	FY 1971	FY 1972
III.			Humanities & Social Social Sciences	6,906	7,500	7,700	15,000
IV.			Industrial Research & Applied Science Studies.	62,121	69,500	85,485	155,400
	A.		Industrial Research	26,500	18,500	20,600	20,600
		1.	Energy Resources Research for Industrial Development	16,000	10,450	3,000	4,000
		2.	Mining Research for Industrial Development	6,640	5,550	3,600	2,600
		3.	Steel Industrial Research	3,000	2,500	3,000	3,000
		4.	Industrial & Research Complex	860	—	11,000	11,000
	B.		Studies of Earth Sciences	—	750	1,125	2,000
	C.		Oceanographical Studies	12,797	10,000	17,860	28,000
	D.		Ship Model Experiments Laboratory	5,500	5,250	2,500	2,500
	E.		Electronics Research	3,000	5,000	7,500	7,500
	F.		Earthquake Research	—	—	—	15,000
	G.		Material Sciences & Industrial Chemistry Technology	—	—	—	12,500
	H.		Textile, Food, & Electronics Industry	—	—	—	15,000
	I.		Agricultural Research	8,324	20,000	24,000	30,000
	J.		Communications Research	1,500	4,500	5,900	7,300
	K.		Atmospheric Sciences (including Meteorology & Typhoon Studies)	4,500	5,500	6,000	15,000
V.			Research of Application of Atomic Energy for Practical Uses	—	—	1,950	2,500
VI.			Medical & Public Health Research	7,000	20,000	3,000	18,000
VII.			Promotion of Science Development & Miscellaneous Studies	10,094	7,965	10,309	32,080
	A.		Subsidies for Academic School Publications	1,166	1,124	1,000	1,000
	B.		International (Mainly Sino-US) Science Cooperations	1,800	—	—	15,000
	C.		Screening of Academic Research Papers & Editing & Publication of Reports	1,239	1,600	1,670	1,700
	D.		Science Seminars	1,000	1,500	1,385	1,700
	E.		Administrative Management	4,289	3,141	5,654	12,080
	F.		Support for Liaison Activities of Committee for Science Development	600	600	600	600

CHART A. (continued)

Article	Item	Section	Description	FY 1969	FY 1970	FY 1971	FY 1972
VIII.			Accumulated Reserve	54,867	29,081	10,835	5,015
	A.		Appropriation from Central Government	54,867	6,808	10,835	5,015
	B.		Contribution from Taiwan Prov. Gov't.	—	400	—	—
			TOTAL	301,705	351,665	324,100	428,406

II. THE PROGRESS OF THE FIRST FOUR-YEAR SCIENCE DEVELOPMENT PLAN

A. Objectives

The three objectives of the First Four-Year Science Development Plan, as has been stated above, are: 1. strengthening of science education in general; 2. cultivation of science research manpower; and 3. coordination between economic reconstruction and scientific and technological developments. These objectives are in effect pegged to the requirement of the current educational, industrial, agricultural and social developments of the nation as a whole. The coordination, for the purpose of better achievement of the objectives of NSC, is broadened to cover the assistance and support from various other government agencies such as Ministry of Education, Ministry of Economic Affairs, Joint Commission for Rural Reconstruction, Ministry of Communications, Ministry of National Defense, etc..

B. Summary of the Progress of Various NSC Programs

1. Science Education Programs

a. Assistance to Science Education

The science fund is used to support the research on the curricula, textbooks, and teaching method for science education at all levels of schools, compilation and publication of undergraduate and graduate reference books and other materials, and the cultivation of science teachers of all school levels.

b. Program of Individual Research Grants

An increasing number of research grants, expanded from 244 grants in 1960 to 776 in 1969, and further increased to 1,292 grants in 1972, have been awarded by NSC annually to university and college faculty members as well as scientists in public research institutions. This program substantially helps to keep scientists of the Republic of China better provided in their livelihood as each grant carries a stipend roughly equivalent to the teacher's or the researcher's regular salary. Being better provided financially, the scientists naturally find it easier to devote their full time to his research and teaching duties.

Chart B will show the number of scholars awarded such a grant and the total sum of NSC expenditure in this respect:

**CHART B. Number of Science Scholars Awarded Individual Research Grants and
NSC Appropriation for the Grants from FY 1960 to FY 1972**

Classification	FY	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	Total Number of Science Scholars
a. Natural & Math. & Engi- neering	(1) Class A	49	79	99	94	111	115	135	174	144	156	165	156	185	1,662
	(2) Class B	46	67	102	75	89	84	95	120	130	117	128	145	116	1,314
	(3) Class C											30	58	162	250
	(4) Class D													71	71
	Total	95	146	201	169	200	199	230	294	274	273	223	359	534	3,297
b. Biological Agricultural, & Medical Sciences	(1) Class A	52	82	105	116	127	114	144	132	123	137	141	139	126	1,538
	(2) Class B	26	66	105	114	110	100	74	133	128	140	109	107	77	1,289
	(3) Class C											57	84	157	298
	(4) Class D													93	93
	Total	78	148	210	230	237	214	218	265	251	277	307	330	453	3,218
c. Humanities & Social Sci- ences	(1) Class A	45	64	83	100	105	118	140	157	133	140	152	157	136	1,530
	(2) Class B	26	32	39	59	67	79	94	87	104	86	76	71	84	904
	(3) Class C											23	20	69	112
	(4) Class D													16	16
	Total	71	96	122	159	172	197	234	244	237	226	251	248	305	2,562

CHART B. (continued)

Classification	FY	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	Total Number of Science Scholars
Total of															
(1) Class A		146	225	287	310	343	347	419	463	400	433	458	452	447	4,730
(2) Class B		98	165	346	248	266	263	263	340	362	343	313	323	277	3,507
(3) Class C												110	162	388	660
(4) Class D														180	180
Total		244	390	533	558	609	610	682	803	762	776	881	937	1,292	9,077
Appropriation (unit: NT\$1,000)		3,698.4	5,521.2	7,627.2	8,227	11,040	11,040	13,824	15,120	15,120	20,840	20,844	20,844	42,000	
Grand Total:														195,746	

Remarks: From 1960 to 1971 Class A is awarded to professors and Associate Professors or Research Fellows and Associate Research Fellows
Class B to Instructors and Lecturers or Assistant Research Fellows
Class C to Assistants or Research Assistants

The classification to non-academic institutions is given to the equivalents.

Beginning 1972, the classification is changed as follows:

- Class A: to Professors or Research Fellows or Their Equivalents
- Class B: to Associate Professors or Associate Research Fellows or Their Equivalents
- Class C: to Instructors or Lecturers or Assistant Research Fellows or Their Equivalents
- Class D: to Assistant or Research Assistants or Their Equivalents

c. Program of Facilities, Equipment and Instruments

A considerable fund is earmarked for subsidizing the Government-operated universities, colleges, and research institutions to procure facilities, buildings, books, periodicals, equipment and instruments for research use. To support the research efforts of individual scholars as well as research institutes of various schools, the Science Instrumentation & Documentation Center was founded in 1968 for the collections of latest scientific and technological data from all over the world and for the compilation of joint bibliographies of science, indexes of patented items, publication of book reviews and digests of science and technology, and for the design of laboratory apparatuses and teaching aids. The funds for the program over the recent years are listed in Chart C as follows:

**CHART C. Government Appropriations and U. S. Aid in Support of the
Procurement of Facilities, Equipment & Instruments
from FY 1958 to FY 1972**

FY	Funds	Government Appropriations	U. S. Aid (Unit: NT\$)
1958		740,000	22,305,472
1960		2,260,000	35,682,447
1961		2,800,000	28,723,858
1962		8,199,516	44,593,367
1963		5,064,872	19,773,181
1964		5,000,000	988,000
1965		11,400,000	
1966		13,204,745	
1967		12,640,000	
1968		13,356,442	
1969		80,500,000	
1970		45,000,000	
1971		4,411,000	
1972		9,411,000	
Total		213,987,575	152,066,325

d. National Research Professorships Program

The program was carried out from FY 1961 to FY 1968 for supporting the special projects implemented by those competent professors appointed as National Research Professors. However, the program was terminated in FY 1969 and has been integrated with the Program of Research Grants to Special Projects. The former program has been appropriated the funds as follows:

**CHART D. Funds for the Program of National Research Professorships
from FY 1961 to FY 1962**

(Unit: NT\$)

FY	Appropriations	FY	Appropriations
1961	3,243,622	1967	1,884,000
1962	2,653,378	1968	1,884,000
1963	2,527,470	1969	(Integrated into the Program of Research Grants to Special Projects)
1964	3,000,000		
1965	3,000,000		
1966	3,000,000	Total	21,192,470

e. Special Chairs Program

The Special Chairs are appointed to those veteran and brilliant professors with splendid achievement in their respective fields of study as an encouragement to their good work. However, it was terminated in Academic Year (AY) 1969. Before the beginning of the First Four-Year Science Development Plan, NSC appropriated the funds to this program for nine years as shown in CHART E as follows:

CHART E. Funds for Special Chairs Program from AY 1960 to AY 1968

Academic Year	Specialized Field of Study	Number of Special Chairs	Total	Appropriation (Unit: NT\$)
1660	Natural & Math. Sciences & Engineering Science	10		
	Biol., Agricultural & Medical Sciences	7		
	Humanities & Soc. Sciences	14	31	302,000
1961	Natural & Math. & Engineering Sciences	9		
	Biol., Agricul. & Med. Sciences	7		
	Humanities & Soc. Sciences	15	31	481,500
1962	Nat. & Math. & Engin. Sciences	10		
	Biol., Agri. & Med. Sciences	5		
	Human. & Social Sciences	14	29	520,000
1963	Nat. & Math. & Engin. Sciences	12		
	Biol., Agric., & Med. Sciences	8		
	Human. & Social Sciences	14	34	960,000
1964	Nat. & Math. & Engin. Sciences	12		
	Biol., Agric., & Med. Sciences	8		
	Human. & Social Sciences	14	34	1,440,000
1965	Nat. & Math. & Engin. Sciences	13		
	Biol., Agric. & Medical Sciences	12		
	Human. & Social Sciences	15	40	1,920,000

CHART E. (Continued)

Academic Year	Specialized Field of Study	Number of Special Chairs	Total	Appropriation (Unit: NT\$)
1966	Nat. & Math. & Eng. Sciences	17	52	2,220,000
	Biol., Agric. & Medical Sciences	20		
	Human. & Social Sciences	15		
1967	Nat. & Math. & Engin. Sciences	21	53	2,220,000
	Biol., Agric. & Medical Sciences	19		
	Human. & Social Sciences	13		
1968	Nat. & Math. & Engin. Sciences	21 (Nat. & Math. 18, Eng. 3)	60	5,952,000
	Biol., Agric. & Med. Sciences	20		
	Human. & Social Sciences	19		
Total	Nat. & Math. & Engin. Sciences	125	364	16,015,500
	Biol., Agric. & Med. Sciences	106		
	Human. & Social Sciences	133		

f. National Visiting Professors Program

From 1962 to 1971 a total of 827 scholars, mostly Chinese, are invited from abroad under the National Visiting Professors Program, which is planned as an avenue to attract science talents from abroad to join in the science development work in Taiwan; besides, the scholars invited are expected to introduce new science knowledge & technology from scientifically advanced countries to the Republic of China so that we may keep up with the progress of the world. A considerable number of them, after the termination of their contracts, chose to stay on in Taiwan and became permanent faculty members of the colleges in the Republic of China. The details of the scholars invited under the National Visiting Professors Program over the years are listed as follows:

CHART F. Number of Scholars Invited Under National Visiting Professors Program from Academic Year 1962 to AY 1971

Academic Year	Natural and Math. Sciences and Engineering Science	Biological Agricultural & Medical Sc.	Humanities & Social Sciences	Total	Appropriation (Unit: NT\$)
1962	1	2		3	U. S. Aid
1963	2	1		3	864,000
1964	13	2	1	16	1,220,000
1965	15	2	1	18	1,983,600
1966	30	10	1	41	3,967,200
1967	47	10	3	60	3,967,200
1968	57	24	13	94	7,934,400
1969	76	40	21	137	11,901,600
1970	128	54	36	218	11,901,600
1971	146	58	33	237	13,000,000
Total	515	203	109	827	56,739,600

g. Program of Fellowships for Advanced Studies Abroad

Beginning FY 1961 a Fellowship Program was introduced for both senior and junior scientists in Taiwan to take more advanced science courses abroad for one year (for senior scientists) or two (for junior scientists). All grantees are permitted to retain their full salaries and fringe benefits from their affiliated institutions. This program is planned for the purpose of bringing into Taiwan the modern science knowledge and technology urgently needed for the economic reconstruction and the promotion of science education of the country through the science scholars having gone through modern training and research experience in scientifically advanced countries for a period of time. The details of this Program are listed as follows (see CHART G).

2. *Basic Science Sesearch*

a. Research Centers

Five research centers were formed in 1965 as the initial step toward beefing up postgraduate training and upgrading the quality of research work in Taiwan by pooling school faculties and facilities for greater efficiency and to avoid duplication of efforts. Jointly supported by NSC and the Council for International Economic Cooperation and Development, the centers have each a sponsoring institute and one or two co-sponsoring institutes. Each of the centers is located on the premises of the sponsoring institute. However, the facilities and faculty members of the co-sponsoring institutes are also available to it. The five research centers are as follows:

- (a) Mathematics Research Center with the National Taiwan University as the sponsoring institute, and Academia Sinica and the National Tsinghua University as the co-sponsoring institutes.
- (b) Physics Research Center with the National Tsinghua University as the sponsoring institute and Academia Sinica and the National Taiwan University as the co-sponsoring institutes.
- (c) Chemistry Research Center with the National Taiwan University as the sponsoring institute and Academia Sinica as the co-sponsoring institute.
- (d) Biology Research Institute with Academia Sinica as the sponsoring institute and the National Taiwan University as the co-sponsoring institute.
- (e) Engineering Research Center with the National Chengkung University as the sponsoring institute and the National Taiwan University and the National Chiaotung University as the co-sponsoring institutes.

In addition to the above five Research Centers, an Agriculture Research Center was established in 1969 with the funds provided by NSC and the Joint Commission for Rural Reconstruction, with National Taiwan University as the sponsoring institute and National Chunghsing University and Taiwan Agricultural Research Institute as the Co-sponsoring institutes. About 800

CHART G. Fellowships Program FY 1961 to FY 1972

FY	Classifi- cation	Division Nat. & Math. Sciences	Engin. & Applied Sc.	Biol., Agric. & Med. Sc.	Human. & Soc. Sciences	Science Education	Country Where They Are Trained				Total	Appropriation (Unit: NT\$)
							US	Eng.	Fr.	Jap.	Eur.	
1961	Class A	9		4	2		10		1	4		15
	Class B	3		2	3		6			2		8
	Total	12		6	5		16		1	6		23
1962	Class A	7		6	4		14	1		1	1	17
	Class B	4		2	2		6	2				8
	Total	11		8	6		20	3		1	1	25
1963	Class A	5		2	6		10	1	1	1		13
	Class B	5		6			6		1	3	1	11
	Total	10		8	6		16	1	2	4	1	24
1964	Class A	6		4	2		7			4	1	12
	Class B	8		3	2		8	1		3	1	13
	Total	14		7	4		15	1		7	2	25
1965	Class A	6		6	1		10			3		13
	Class B	6		1	5		10			2		12
	Total	12		7	6		20			5		25
1966	Class A	5		6	4		12	1		1	1	15
	Class B	6		3	4		12	1				13
	Total	11		9	8		24	2		1		28
1967	Class A	4		5	4		8	1		4		13
	Class B	6		4	3		9	2		1	1	13
	Total	10		9	7		17	3		5	1	26

CHART G. (Continued)

FY	Classification	Division Nat. & Math. Sciences / Engin. & Applied Sc.	Biol., Agric. & Med. Sc.	Human. & Soc. Sciences	Science Education	Country Where They Are Trained				Total	Appropriation (Unit: NT\$)
						US	Eng.	Fr.	Jap.	Eur.	
1968	Class A	5	7	9	2	24	2		4		30
	Class B	5	4	5	2	14	2		3	2	21
	Total	10	11	14	4	38	4		7	2	51
1969	Class A	7	8	14	2	23	2		13	2	40
	Class B	12	14	6	5	46			4	1	51
	Total	19	22	20	7	69	2		17	3	91
1970	Class A	11	9	11		25	1		8	3	37
	Class B	12	16	19		65			7	2	74
	Total	23	25	30		90	1		15	5	111
1971	Class A	9	11	11		26	2		13	2	43
	Class B	20	22	11		77	1		4	2	84
	Total	29	33	22		103	3		17	4	127
1972	Class A	5	9	12		21	1		17	1	40
	Class B	19	22	11		69	1		4	2	84
	Total	24	31	23		90	2		21	3	124
Total	Class A	123	81	80	4	190	12	2	73	11	288
	Class B	184	122	71	7	328	10	1	33	12	467
Grand Total		307	203	151	11	518	22	3	106	23	672

Remarks: (1) Class A for Professors, Associate Professors and their Equivalents: Permitted Stay Abroad for one year.

(2) Class B for Instructors, Lecturers, Assistants and Their Equivalents: for two years.

(3) Abbreviations: US=United States of America. Eng.=England. Fr.=France. Jap.=Japan. Eur.=Europe (Including West Germany, Netherlands, Canada, and Australia). Nat. & Math. Sciences=Natural and Mathematical Sciences. Engin. & Applied Sc.=Engineering and Applied Sciences (The above two divisions are combined from 1961 to 1967 & separated since 1968). Biol., Agric. & Med. Sc.=Biological, Agricultural and Medical Sciences. Human. & Soc. Sciences=Humanities and Social Sciences.

graduate students have been awarded the M.S. degrees at these centers while some Ph. D. degrees in natural sciences were awarded by home institutes for the first time in 1970.

Total NSC support for the research centers amount to between NT\$50,000,000 and NT\$60,000,000 annually. With construction needs and equipment largely satisfied, grants to the centers have been shifted from an institutional basis to a project basis.

b. Major Programs in Applied Science and Technology

(1) Industrial Research and Development

Efforts on industrial research and new products development are primarily the function of a number of government research labs under the Ministry of Economic Affairs. The Science Fund, however, plays a catalyst role in this area by selectively supporting on-going projects as well as to help seeding new projects. Industrial R & D projects completed and presently still under NSC support include energy resources development, mining and metallurgy, steel-making, polymer processing, ceramics, food processing, textile and electronic technology, and management science.

Beginning from 1969, as the government launched the first of three four-year science development plans, the Fund used in regard to industrial research and development amounted to the equivalent of US\$28 million, about 0.75% of GNP, including about US\$25 million from the Ministry of Economic Affairs and over \$2 million from the Science Fund. Funds granted to the Engineering Research Center and for more basic studies are not included.

(2) Studies of Electronics

NSC's support of the Studies of Electronics is primarily purported to boost the present and the future development of the electronics industry in Taiwan, which has grown from the very small scale electronics assembling industry before 1960 to an export of the electronics products amounting to US\$180,000,000 in 1970 and further grown to that export amounting to US\$300,000,000 in 1971. As the total capital investment has grown to US\$250,000,000, a closer cooperation between the industry and research institutes appears urgent and absolutely necessary.

In order to promote the electronics research for industrial application, NSC appropriated from FY 1969 to FY 1971 a total of NT\$15,000,000 (not including the NT\$9,778,000 to support the electronics research in the Engineering Research Center) to finance research on semi-conductors, hardware and software of computer systems, electromagnetic wave and electronic communication systems. The projects were carried out at the National Taiwan University, National Chiao Tung University and National Chengkung University.

(3) Experiments with Ship Model Basin

A Ship Hydrodynamics Laboratory was inaugurated at the National Taiwan University in 1970 with the support of funds from NSC for the purpose of carrying out research and training activities on naval architecture to meet the needs of Taiwan's young shipbuilding industry. The scope of its research activities cover the following areas: (a) Ship model test; (b) Ship hydrodynamics; (c) Primary ship designs; and (d) other aspects of naval architecture. For achieving the purported activities, the Laboratory is equipped with sea-keeping and maneuvering tanks, water circulation channel, wave generator and related instrumentations.

(4) Oceanography

Approximately NT\$70,000,000 has been appropriated by NSC for the study of oceanography over the past four years. Its breakdown is roughly as follows:

- (a) NT\$12,000,000 for the installation of laboratories.
- (b) NT\$18,000,000 for refitting a research vessel named Chiu Lien (secured from the U.S. on loan).
- (c) NT\$28,000,000 for equipping the vessel with up-to-date geophysical instruments and facilities for physical and chemical oceanographic research as well as marine and fishery research facilities.
- (d) More than NT\$5,000,000 for procurement of books, periodicals and reference materials and instruments.

The emphasis of oceanographic research efforts is placed upon marine geology, ocean currents and upwelling phenomena, algae and plankton distribution, fish ecology and fishery biology, and coral reefs in waters around Taiwan.

To implement the multiple purposes of the program, an Institute of Oceanography was established at the National Taiwan University on August 1, 1968. Besides tackling the projects as stated above, the Institute also participates in the international cooperative oceanographic research of the South China Sea and other areas with neighboring countries.

(5) Seismology

An Earthquake Research Project introduced and organized in 1970 with the task to complete the installation of a modern seismological monitory network in Taiwan by the end of 1972 with the computerized data processing through telemetering. The installation of the telemetered monitoring system in Taiwan and its outlying islands, NT\$20,000,000 was appropriated by NSC in its FY 1971 budget. In the next five years a pertinent program has been adopted for sending young scientists to the U.S. and Japan for advanced studies

and training in seismology, earthquake engineering, and the related fields so as to enable them to tackle much of the sophisticated operation of the system. Projects are now also under way for detailed analysis for data acquired by strong-motion seismographs at major population centers and engineering sites with a view to devising more relevant building codes and structural standards.

(6) Atmospheric Research

Since Taiwan is located on the path of typhoon formed in the northwestern Pacific, damage and loss caused by typhoon were tremendous.

In FY 1971, NSC initiated the program for Typhoon Research aiming at the exploration of a better preventive measures to minimize the losses to the lowest possible.

The program is carrying out by the National Central University, The Institute of Physics of Academia Sinica, and the Department of Geography of the National Taiwan University, etc..

In addition, a Sino-American Seminar on Typhoon was held in the United States in 1971 for exchange of technical information which is helpful to the research program.

Besides, to cope with the economic development, NSC has also launched or assisted a number of research program on applied science in Material Science Chemical Industry, Textile Food Processing, Farm Machinery and other agricultural projects.

(7) Agricultural Research

Agricultural research activities being carried out in Taiwan include crop science, animal husbandary, marine and fishery products, forestry and agricultural engineering.

Due to the rapid industrialization and the decreasing of the cultivated land, recent research efforts are therefore channeled to the breeding of nutrition-rich, high yield and disease-resistant varieties in crop such as rice, corn and sweet-potato.

Since 1970, about US\$ 2.24 million has been distributed to JCRR for the support of the most field experiments. US\$ 400,000 for the Asian Vegetable Research and Development Center for the development of new vegetable varieties.

(8) Medical Research Program

Efforts on medical research are primarily on anti-cancer drugs of plant origin, local diseases, reproductive physiology, nutrition, and acupuncture.

Since 1970, an amount equivalent to US\$ 1.7 million fund has been distributed to the following institutes for carrying out above researches:

College of Medicine, National Taiwan University
National Defense Medical Center

Public Health Administration, Executive Yuan

Taiwan Provincial Health Department

Several Sino-America cooperative programs have also been carried out in both two countries. Since 1966, the University of Wisconsin and the Cancer Institute have been working with the Taiwan's institutes in search of anticancer drugs.

III. SINO-AMERICAN COOPERATION IN SCIENCE

A. Objectives

International science cooperation has played an important role in Taiwan's science development right from its beginning. The achievements made in the past decade, though modest in absolute terms yet significant in starting an autocatalytic process, owed substantially to diverse international exchange programs and joint research ventures, particularly the large number of programs with the United States.

For the purposes of cultivating the foundation for science technological development, of introducing new scientific technology to the Republic of China and strengthening international ties of various research institutes, the Republic of China has inaugurated several international cooperation programs with Japan, Korea, and other Asian countries. Nevertheless, Sino-American cooperation in science has grown more and more important as more and more exchange programs have been implemented and they have benefited the country in its science development more greatly than any other international cooperation programs.

B. U.S.-China Cooperative Science Program

As Sino-American cooperation in science gained momentum, an exchange of notes between the two countries took place on January 23, 1969, inaugurating a comprehensive new framework for bilateral cooperation known as the US-China Cooperative Science Program. The U.S. National Science Foundation and the Chinese National Science Council were designated to be joint implementing agencies. Four types of cooperative activities have been sponsored by the implementing agencies as follows:

1. Short-term exchange of scientists, with the objective in widening the contacts between the two scientific communities.
2. Long-term exchange of scientists, with the objective primarily of enabling scientists of one country to do research in another with host investigators sharing the same interest.
3. Cooperative research projects, which differ from long-term exchanges in that interested scientists of the two countries usually work on different aspects of the same problem separately but are enabled to visit each other by the implementing agencies.
4. Bi-national seminars, designed not only to increase interaction between U.S. and Chinese scientists on a group basis, but also to generate new interest in cooperative research.

C. Direct and Indirect Achievements of the Cooperation Program

Though it takes much longer time to judge the achievements of the U.S.-China Cooperative Science Program, yet the influences have begun to be felt here in Taiwan. According to the First Status Report jointly prepared in 1972 by the two implementing agencies stated above on its preliminary evaluation of the program activities it has listed the following direct and indirect achievements of the Program:

1. The Program has stimulated Taiwan's graduate program and advanced research.
2. The bilateral exchange of visit has achieved the objective of widening contacts between the two scientific communities.
3. The visit of U.S. scientists to Taiwan has made it possible for their hosts to benefit directly from the visitors' experience and expertise in planning of Taiwan's scientific research.
4. Their visit also helps to introduce new science and technology into the Republic of China.
5. The exchange of visits under the Program has served to better the science education in Taiwan.

In order to better serve the interests and needs of the two scientific communities, the implementing agencies have been in close consultation to review priority areas of interest and to revamp the modes of implementation.

IV. OTHER INTERNATIONAL SCIENCE COOPERATIVE PROGRAMS

Both before and after the forced withdrawal of the Republic of China's United Nations membership, and consequently the abrupt termination in Taiwan of nearly all the scientific and technological programs under the auspices of the U.N. in Taiwan, the Republic of China has spared no efforts in seeking for bilateral arrangements connecting Taiwan's scientists with the world scientific community, most notably with the Republic of Korea, Republic of Vietnam, Australia, Thailand, and Japan, in addition to the ties with the U.S. as stated above. The Chinese Government, fully aware of the intimate relationship between U.N. technological programs (under UNDP and with the assistance of UNESCO, WHO, WMO, UNIDO, etc. with a total annual budget in excess of US\$2,000,000) and our economic development needs, has actively studied the situation and formulated contingency plans to carry on selectively the aborted U.N. programs. Being deprived of the assistance of U.N. affiliated organizations and UN Specialized agencies in technological planning and pilot-plant development, we have done our best to substitute effective bilateral or regional arrangements for the assistance of U.N. agencies. Therefore, more frequent contacts with the scientific communities of all friendly nations are maintained, and from time to time joint ventures of research cooperation have been made, of which the NSC has played an important part.

I. RECIPIENTS OF RESEARCH GRANTS

A. NATURAL AND MATHEMATICAL SCIENCES 自然科學及數學

1. Academia Sinica

(1) Class B

1. Effects of Dissolved Oxygen, Chloride Ions and pH in the Photo- and Radiation Synthesis of Amino Acids from Inorganic Nitrogen Compounds
Tsu-Chang Hung 洪楚璋 Associate Research Fellow

(2) Class C

2. Respiration of the Mitochondria of *Bacillus subtilis*
Shuh-Ming Chang 張曙明 Assistant Research Fellow
3. A Study of Collulase Activity of Genus *Trichoderma* toward Carboxymethylcellulose
Chi-Chuen Yang 楊啓春 Assistant Research Fellow
4. Separation and Determination of Proline from Gelatin
Shu-chen Sung 宋淑貞 Assistant Research Fellow
5. The Production and Quantitative Determination of Citric Acid
Jy-Shih Wang 王之士 Assistant Research Fellow

2. National Taiwan University

(1) Special Grant

6. New System of Earth Science Researches
Ting Ting H. Ma 馬廷英 Professor
7. Veneziano Model and Extended Elementary Particles
Jenn-Lin Hwang 黃振麟 Professor
8. High-temperature and High-pressure Mineral Synthesis Study: The Stability Field of Stilbite
Veichow C. Juan 阮維周 Professor
9. Structural Evolution of the Chinese Continental Margin and Oil Prospect of the Yellow Sea and East Sea
Chao-Siang Wang 王超翔 Professor
10. Neotectonics of the Taitung Coastal Range
Ch'ao-Ch'i Lin 林朝榮 Professor

11. Minor Hypogene Minerals of the Chinkuashih Gold-copper Deposits, Taiwan
Chun-Kiang Huang 黃春江 Professor

(2) Class A

12. A Study on S-D Shell Nuclei
Kun-Kuang Huang 黃坤洸 Professor
13. Exploration on Clay Deposits in Northern and Eastern Taiwan
Pei-yuan Chen 陳培源 Professor
14. The Effects of Air Currents upon Rainfall Collection
Ken-Chuan Chou 周根泉 Professor
15. Pilot Planning and Success Possibility Study on Cloud Seeding to Augment Rainfall over Central and Southern Parts of Taiwan
Yu-chin Kang 亢玉瑾 Professor
16. On the Geographical Analysis of Energy Resources in Taiwan
Hung-wen Wang 王洪文 Professor
17. The Physical Geography Foundation of Land-use in the West Slopes of Tatu Tableland
Lu-ping Lee 李鹿苹 Professor
18. Environment Study of the Surrounding Waters of Taiwan
Tsu-You Chu 朱祖佑 Professor
19. Direct Reaction Analysis of the $^{14}\text{N}(n, \alpha)^{11}\text{B}$ Reaction at 14.1 Mev.
Ching-Ching Chang 張鏡清 Associate Professor

(3) Class B

20. On Calculations of the Band Energy Related to Muffin-tin Potentials
Der-Ruenn Su 蘇德潤 Associate Professor
21. Copper Content of Biotites from the Andesitic Rocks in Northern Taiwan
Li-Ping Tan 譚立平 Associate Professor
22. The Crystal Chemistry of Titanium and Chromium Oxides
Chihming Wang Lee 王執明 Associate Professor
23. Studies of the Effects of Pollution Caused by Rubbish Heaps around the Coastal Area of Keelung City, Taiwan—Effects on the Community and Distribution of Phytoplankton
Young-Meng Chiang 江永棉 Associate Professor
24. Physical Characteristics of the Drainage Basins of Taiwan
Chiu-Yuan Wang 王秋原 Associate Professor

(4) **Class C**

25. Carbon-14 Dating and Measurement of Content of C-14 in the Air
Yi-Chuan Hsu 許玉釧 Technician
26. Carbon-14 Dating and Measurement of Content of C-14 in the Air
Muh-chuen Chou 周木春 Technician
27. Physical Properties of Freezing Solution
Chi-Shan Yang 楊啓珊 Technician
28. Counter Telescope for Studying the Reaction Induced by 14 Mev. Neutrons
Song-Yun Lin 林松雲 Technician
29. On the Energy Transformations of Typhoon over Taiwan
Sheng-ping Ho 何勝平 Lecturer
30. A Study on the Synthesis of Epistilbite
Huann-jih Lo 羅煥記 Lecturer
31. A. Experimental Study on the Vacuum UV Spectra of Zn, Mg and Na
B. Preliminary Experiment on the Vacuum Optical Coating
Hsiou-er Lin 林秀娥 Lecturer

3. National Chengchi University

(1) **Special Grant**

32. Analytic Studies in Double Sampling
Ing-Tzer Wey 魏應澤 Professor

4. National Tsinghua University

(1) **Special Grant**

33. Studies on Qualitative Trace Analysis
Si-Jung Yeh 葉錫溶 Professor

(2) **Class B**

34. Synthesis and Deamination of 1-*t*-Butyl-2-aminomethylazetidine
Teng-yueh Chen 陳登嶽 Associate Professor
35. A Study of Gamma Radiolysis and Thermal Decomposition on Chromium Oxygenian Salts
Mo-Hsiung Yang 楊未雄 Associate Professor
36. Synthesis of 2,2-Disubstituted Succinimide-1-¹⁴C as Effective Antiradiation Agents
Kong-Ko Lee 李功固 Associate Professor

(3) Class C

37. Thin-layer Chromatography of Radioactive Compounds

Tsun-Hsiung Hsieh 謝俊雄 Lecturer

38. Crystal Structure of $\text{UCl}(\text{C}_5\text{H}_5)_3$

Ching-nien Chen 陳慶年 Lecturer

(4) Class D

39. Improvement on Preparation of Iodine-131

Tsai-Feng Chen 陳在豐 Technical Assistant

40. Studies on Quantitative Trace Analysis: I. Neutron Activation Analysis of Trace Metal

Ping-yao Chen 陳炳耀 Technical Assistant

41. Gamma-radiolytic Study of Potassium Chromate

Ju-chin Wei 魏如津 Technical Assistant

42. Studies on Qualitative Trace Analysis: II. Gas Chromatographic Analysis of Trace Metal

Chin-Nan Ke 柯景南 Technical Assistant

5. National Chiaotung University

(1) Special Grant

43. A Study on the Orbits of Artificial Satellites

Hsu Chen 陳 煦 Professor

(2) Class C

44. On the Absolute Nörlund Summability Factor of Infinite Series

Tsui-Hwa Yang 楊翠華 Lecturer

6. National Chungyang University

(1) Class A

45. A Study on the Relationship between Size Distribution of Large Aerosol Particles and Its Sedimental Velocity and Meteorological Factors

Yuin-Kwei Tai 戴運軌 Professor

46. The Effects of Water and Carbon Dioxide on the Radiative Cooling Rates

San-Chi Hu 胡三奇 Professor

(2) Class C

47. The Effect of Atmospheric Winds on F2-region over Taipei

Chun-liu Tseng 曾俊六 Lecturer

48. Physical Properties of Miocene Sediments as Related to Seismic Velocities in Chuhuangkeng Area, Miaoli

Guey-kuen Yu 余貴坤 Lecturer

49. Diurnal Variation of the Ionosphere over Taipei on Quiet and Disturbed Days for I. G. S. Y.

Wei-Hsiung Tsai 蔡偉雄 Lecturer

50. Studies on the Content of Rarer Elements in Taiwan Hot Spring Water: Studies on the Content of Peitow Hot Spring

Fu-Pao Tsao 曹福寶 Lecturer

7. National Taiwan Normal University

(1) Special Grant

51. Thermal Reactions of Aromatic Carboxylic Acids in Dimethylformamide

Cheng-Hsia Wang 王澄霞 Professor

(2) Class A

52. A Geographical Survey of Irrigation in the Southwestern Region of Taiwan

Hung-Hsi Liu 劉鴻喜 Professor

53. Quantitative Analysis of Land Form in the Northern Part of Taiwan

Chung-Ru Ho 賀忠儒 Professor

54. A Study of the Microclimate of Taipei Basin

Yen-Huai Liu 劉衍淮 Professor

(3) Class B

55. Maximum Principles and Some of its Consequences on Royden's Compactification of Riemannian Spaces

I-Hsiung Lin 林義雄 Associate Professor

56. Radiocatalytic Effect of Uranyl Ion

Ming-tong Wey 魏明通 Associate Professor

57. A Geomorphological Quantitative Study on the Coral Reef Coast of Southern Taiwan

Tsai-Tien Shih 石再添 Associate Professor

(4) Class C

58. The Chelating Ability of Polyphosphates and Its Uses in Preserving Food:
I. The Stabilization of Vitamin C

Mei-Fang Lu 呂美芳 Lecturer

(5) Class D

59. A Study of Stream Order on the Coastal Area of Southern Taiwan

Jui-Chin Chang 張瑞津 Assistant

8. National Chengkung University

(1) Special Grant

60. Molecular Nitrogen Fixers
Ming-Pung Tien 田明朋 Professor
61. The Formation of Pyrolytic and High Density Graphite and Their Physical Properties
Kuang-Teh Yang 楊光德 Professor
62. Spectrochemical Analysis of Indium Alloys, Spectrochemical Analysis of Indium-Gallium Alloys (Spectrochemical Analysis in the Metallurgical Industry: Part Nine)
Sien-Yung Wang 王先鎔 Professor

(2) Class A

63. Application of Subharmonic Function
I-Hsi Lin 林宜禧 Professor
64. The Thermal and Electrical Properties of Compensated Extrinsic Semiconductor
Wang-Chien Peng 彭望謙 Professor
65. Solvent Extraction and Spectrophotometric Determination of Uranium Using 1,2-Cycloheptanedionedioxime as Chelating Agent
Shou-nan Chen 陳壽南 Professor
66. Transition Complex in Aromatic Ketone Synthesis
Chi-Hsiung Lin 林繼雄 Professor

(3) Class B

67. Recombination Coefficient in a Condensed Discharge Positive Column Plasma
King-Nien Woo 吳慶年 Associate Professor
68. Sedimentology of Tsengwen Delta
Shih-Chiao Chang 張石角 Associate Professor
69. Adsorption Characteristics of Coal in Aqueous Solutions
Chen-Cheng Wu 吳振成 Associate Professor

(4) Class C

70. Initial Topology and Final Topology of Vector Spaces
Luc Kuo-Yung Yen 顏國勇 Lecturer
71. A Study on Frink's Open Problem
Jen-Hun Chen 陳珍漢 Lecturer

72. Interaction between Ferrous Ion, Acetylacetone and Bathophenanthroline
Yih-Hsiung Chen 陳義雄

(5) Class D

73. Molecular Nitrogen Fixers
Mau-Yung Yeh 葉茂榮 Assistant
74. Recombination Coefficient in a Condensed Discharge Positive Column Plasma
Meng-Chun Yeh 葉孟春 Assistant
75. Transition Complex in Aromatic Ketone Synthesis
Chung-ming Wen 溫聰明 Assistant
76. Transition Complex in Aromatic Ketone Synthesis
Lily L. Su 蘇利利 Assistant

9. National Chunghsing University

(1) Class A

77. Temperature Effect on the Stability of Vitamin A, C and Iodine Content in Sea Algae
Li-Yuan Liu 劉理遠 Professor

(2) Class C

78. Statistical Spectral Analysis of Purely Non-deterministic Process—Spectral Density Estimation
Jin-Yuh Chang 張金裕 Lecturer
79. T^2 -distribution and Its Application
Yih-hsyong Su 蘇義雄 Lecturer
80. Atmospheric Simulation
Lai-Chen Chien 簡來成 Assistant Research Fellow of Academia Sinica

10. Chungcheng College of Sciences and Engineering

(1) Special Grant

81. A Study in Raman Spectroscopy
Chen-Hanson Ting 丁陳漢蓀 Professor

11. Chinese Air Force Academy

(1) Class C

82. A Study of Bremsstrahlung Weighted Cross Section and Dipole Sum Rule Using a Relativistic Nuclear Model
Chang Hsu 徐昌 Instructor

12. Air Communication & Electronics School, Chinese Air Force

(1) Class B

83. Prediction of Typhoon Movement and Intensity by Statistical Methods

Yulei Chen 陳毓雷

Associate Professor

(2) Class C

84. Prediction of Typhoon Movement and Intensity by Statistical Methods

Hsiao-Li Pao 鮑學禮

Instructor

13. Fugen University

(1) Class B

85. Minimal Hypersurface in S^{n+1}

Yi-Ching Yen 顏一清

Associate Professor

14. Tunghai University

(1) Class A

86. Spectrophotometric Studies of Cupric Bromide in Acetic Acid Solution

Andrew Teh An Cheng 鄭得安

Professor

(2) Class B

87. Bordism Algebras of Periodic Transformations

Ching-Mu Wu 吳青木

Associate Professor

88. Extensions of Uniformizable Spaces and Their Uniform Structures

Wan-chen Hsieh 解萬臣

Associate Professor

(3) Class C

89. UV Spectrophotometric Kinetic Studies of the Ethyl Bromide—Ethoxide Ion Reaction in Diethyl Ether

Hsien-Yien Wang 王憲琰

Lecturer

90. Evaluation of Saponin Content in the Pasturage in Taiwan

Pi-Yao Lin 林碧堯

Lecturer

15. Tamkang College of Arts and Sciences

(1) Class A

91. Molecular Studies by Infrared Spectroscopy

Tunli Chen 陳敦禮

Professor

(2) Class B

92. Instability Analysis for High Intensity Laser Passing through a Moving Medium

Wei-Yeu Chen 陳惟堯

Associate Professor

93. Electron Correlation in Closed-Shell Atomic System: II.

Kee-Chuan Pan 潘可傳 Associate Professor

(3) Class C

94. On Direct Sum of Finite P-weakly Rings

Jau-Jing Chen 陳昭政 Lecturer

95. The Topological Space on Which G_δ -sets and Continuity Sets Are Equivalent

Chen-jyi Su 蘇城吉 Lecturer

96. On the Dimension of $C^*(X)$

Leou-nan Hwang 黃柳男 Lecturer

(4) Class D

97. Some Problems on Lattice Theory

Kin-chun Lee 李金俊 Assistant

16. Chung Yuan Christian College of Science and Engineering

(1) Class A

98. A Study of Distributions to Partial Differential Equations

George Chen-neng Chang 張振能 Professor

99. Variation of Ultrasonic Velocity and Absorption with Frequency in High Viscosity Oils

Hung-Liang Kuo 郭宏亮 Professor

(2) Class B

100. Discussion on Kühler C-space Poincare Polynomial

S. H. Liu 劉興歡 Associate Professor

17. Taipei Medical College

(1) Class C

101. Studies on the Chemical Component of Solanum Lyratum Thunb.

Cheng Lee 李誠 Lecturer

18. Tatung Institute of Technology

(1) Class B

102. Derivation of the Mass Formula from the Shell Model of the Nucleus

Jyi-cherng Hung 洪吉成 Associate Professor

19. College of Chinese Culture

(1) Class A

103. Free Atmosphere over Singapore

Chi-hsun Hsueh 薛繼堦 Professor

20. Provincial Taipei Institute of Technology

(1) Class A

104. Studies on Air Pollution

Tsung-Lin Huang 黃聰林 Professor

105. Adducts of Heterocyclic Bases with Bis(N-nitroso-N-naphthylhydroxylaminato) Copper: II.

Chung-yao Hsu 許鍾瑤 Professor

21. Provincial Pingtung Junior College of Agriculture

(1) Class A

106. Studies on Effects of Rapid Growth Grass and Artificial Wind Shelterbelts in Orchard and Weather Analysis at Hengchun in Taiwan

Lien-jui Chern 程連瑞 Professor

107. The Method of Systematic Qualitative Analysis of Anions Using Test Papers

Jeng-Fang Cheng 鄭仁芳 Professor

(2) Class D

108. Studies on Effects of Rapid Growth Grass and Artificial Wind Shelterbelts in Orchard and Weather Analysis at Hengchun in Taiwan

Sen-Hsiung Hsu 徐森雄 Assistant

22. Ming Hsing Junior College of Technology

(1) Class A

109. Catalytic Hydrogenation of Geraniol

Phouti Sou 蘇莽第 Professor

23. Tajen Junior College of Pharmacology

(1) Class A

110. A Study on the Mode of Action of Antihistaminics and Its New Compounds

Chu-kun Shih 石竹根 Professor

24. Tamsui Oxford Junior College

(1) Class A

111. Unbiased Estimation for Function of a Truncation Parameter

Neng-che Yeh 葉能哲 Professor

25. Taiwan Sugar Experiment Station

(1) Class A

112. Studies on Raw Sugar Colorants: I. Fractionation and Characterization

Chung-Sheng Chang 張中盛 Research Chemist

(2) Class B

113. The Effects of Inorganic Constituents on the Sugar Ash Contents of Taiwan Superior White Crystal Sugar in the Clarifying Process
Zwei-Hou Hsu 許瑞後 Chemical Engineer

(3) Class C

114. Studies on Sugar-isomerizing Enzyme: I. Cultural Conditions for the Production of Glucose Isomerase and the Properties of the Enzyme
Ching-Liang Lai 賴慶亮 Chemist
115. Studies on the Variance of Colloid Stability in Cane Juice of New Varieties in Taiwan
Hui-Chuan Tseng 曾滙川 Chemical Engineer
116. The Variation of the Chemical Constitution of New Sugarcane Variety during the Period of Maturity
Ming-Thao Tsai 蔡明朝 Chemical Engineer
117. Studies on the Treatment of Molasses Alcohol Slops
Yun-tang Chuang 莊允當 Chemical Engineer

(4) Class D

118. The Effects of Inorganic Constituents on the Sugar Ash Contents of Taiwan Superior White Crystal Sugar in the Clarification Process
Hong-Tsai Cheng 鄭鴻財 Chemical Engineer

26. Taiwan Provincial Institute of Geological Survey

(1) Special Grant

119. Microscopic Structural Analysis of the Slate Formation of Taiwan: Northern Taiwan
Tsang-po Yen 顏滄波 Senior Geologist
120. A Biostratigraphic Study of the So-called Slate Formation in Taiwan Based on Smaller Foraminifera: III. Sankuang-Hsiuluan Area along the Upper Courses of the Tanshuiho and the Yulochi
Li-Sho Chang 張麗旭 Senior Geologist
121. The Taipei Fault and Related Structural Features in Northern Taiwan
Chun-sun Ho 何春蓀 Senior Geologist

(2) Class A

122. Stratigraphy and Structural Features of the Northern Hengchun Peninsula, Taiwan
Shin-Fu Tsan 詹新甫 Senior Geologist

123. Geology of the Area between the Pachangchi and the Choshuichi, Central Taiwan (Southern Part)

Wen-P'u Keng 耿文溥

Senior Geologist

(3) Class D

124. Biostratigraphic Study of the Smaller Foraminifera in W. P. Keng's "Geology of the Area between Choshuichi and Pachanchi, Central Taiwan (Southern Part)"

Tsui-Hsia Chen 陳翠霞

Junior Micropaleontologist

27. Central Weather Bureau

(1) Class A

125. A Comparative Study of Calculated and Observed Values of Precipitation Intensity

Ruey-Shan Lin 林瑞山

Station Master

126. The Rainfall Associated with Typhoons in Taiwan and Its Forecasting

Yuan-Heng Wei 魏元恒

Research Chief

127. A Study of the Typhoon Which Attacks Taiwan

Chin-Huai Hsu 徐晉淮

Chief of Forecasting Branch

128. A Study on the Relationship between Size Distribution of Large Aerosol Particles and Its Sedimental Velocity and Meteorological Factors

Shih-Chong Lu 呂世宗

Chief of Observation Division

129. A Study on the Prediction of Rainfall over Taiwan during Typhoon Invasion by Analog Techniques

Ke-Hsun Chi 戚啓勳

Supervising Meteorologist

(2) Class B

130. A Study on the Forecasting of the Typhoon Track Which Attacks Taiwan

Pang-Chie Cheng 鄭邦傑

Supervisor

131. The Use of Satellite Picture in the Cold Air Break Forecasting

Pao-Chin Hsu 徐寶箴

Senior Meteorologist

(3) Class C

132. A Study of the Agrometeorological Environment in Taiwan

Chin-Su Yen 顏俊士

Chief of Agrometeorological Section

(4) Class D

133. The Rainfall Associated with Typhoons in Taiwan and Its Forecasting

Ming-sen Lin 林民生

Technician

134. The Rainfall Associated with Typhoons in Taiwan and Its Forecasting
Shinn-Liang Shieh 謝信良 Technician
135. A Study of the Typhoon Which Attacks Taiwan
Zu-chen Loh 羅字振 Technician
136. A Study of the Typhoon Which Attacks Taiwan
Bor-Yih Wang 王博義 Technician
137. A Study on the Relationship between Size Distribution of Large Aerosol Particles and Its Sedimental Velocity and Meteorological Factors
Fu-Lai Chen 陳福來 Technician
138. The Study of Effects of the Winter Stratospheric Warmings and the Persistent Weather in Taiwan
Lee-Chiang Hong 洪理強 Technician

28. Taiwan Fishery Research Institute

(1) Class B

139. Mechanical Studies on Shrimp beam Trawl in Relation to Its Catching Efficiency
Tsaan-Jan Lee 李燦然 Chief Research Officer

29. Taiwan Provincial Hygienic Laboratory

(1) Class B

140. Studies on the AVICEL Layer Chromatography: I. Application to Amino Acids
Shu-Chi Lee 李樹其 Senior Expert

30. Taiwan Livestock Research Institute

(1) Class D

141. Effect of Enzyme Preparation on the Macerating Activity of Substrate and the Digestibility in Rats
A-Li Hsu 徐阿里 Junior Specialist

31. Taiwan Fertilizer Company

(1) Class C

142. Studies on Application of Melamine: I. Synthesis of Mono-*o*-hydroxybenzoylmelamine and Its Use for Synthesis of Dye
Yu-Yen Liaw 廖玉燕 Researcher

32. Chinese Petroleum Corporation

(1) Class A

143. Depositional Environment of the Miocene Talu Sandstone Reservoir, North-west Taiwan, and the Possibilities of Stratigraphic Traps
Cheng-Hui Tang 湯振輝 Section Chief
144. On Processing of Marine Seismic Data
Yuh-Sheng Pan 潘玉生 Chief Geophysicist
145. Development of the Neogene Sedimentary Basin and Formation of Oil and Gas Fields in Northwestern Taiwan
Hua-Teng Chiu 邱華燈 Assistant Department Chief
146. Distribution of Planktonic Foraminiferers in the Surface Sediments of the Taiwan Straits
Tunyow Huang 黃敦友 Laboratory Chief
147. Subsurface Geology of the Pingtung-Tungkang Plain, Taiwan
Si-Chih Sun 孫習之 Senior Geologist
148. Subsurface Geologic Study of the Hsinchu Basin, Taiwan
Stanley S. L. Chang 張錫齡 Chief Geologist

(2) Class B

149. Gravity Study of the Paishatun Structure, Miaoli
Chin-Cheng Hu 胡錦城 Geologist
150. Abnormal Events on Seismic Records in Peikang and Yichu Area, Taiwan
Hsin-Hsi Liu 劉昶成 Geophysicist

(3) Class C

151. A Study on the CDP Seismic Record in the Kengtzukou Structure, Hsinchu, Taiwan
Hsing-Chun Chiang 江新春 Geologist
152. A Study on Seismic Records by C. D. P. Method on Houli Area, Taichung
Wei-Kuang Wang 王偉光 Geologist
153. A Study on CDP Seismic Records in Mailiao Area, Yunlin
Do-Ming Wu 吳多明 Geologist
154. Geologic and Seismic Study of the Hsiaomei Structure, Chiayi, Taiwan
Tai-Hsien Wu 吳泰玄 Geologist
155. Gravimetric Study of the Taitung Rift Valley and the Coastal Range, Eastern Taiwan: I. Northern Part
Wu-Shong Chen 陳武雄 Geologist

156. Seismic Study on the Southern Part of the Tiehchenshan Structure

Jien-Chu Lo 駱劍秋 Geologist

157. Seismic Study of the Paoshan Structure, Hsinchu, Taiwan

Jui-Shiang Chen 陳瑞祥 Geologist

158. A Study of Multiple Reflection from Seismic Data in Taichung Basin, Taiwan

Huo-Sheng Chung 鍾火盛 Geologist

159. A Study on the Seismic Variant Velocity in Tatushan Area, Taichung, Taiwan

Fu-Chen Su 蘇福欽 Geologist

33. Chia Yee Solvent Works, Chinese Petroleum Corporation

(1) **Class C**

160. Studies on the Characteristics of Lube Oil vs. Polymethacrylates

Chia-Eng Su 蘇嘉恩 Chemical Engineer

161. A Study on the Analysis of *n*-Paraffins Residued in the Petro-protein

Giy-Shoung Huang 黃吉雄 Chemist

**34. Bureau of Commodity Inspection & Quarantine,
Ministry of Economic Affairs (MOEA)**

(1) **Special Grant**

162. A Study on the Plastics Fillers from Taiwan Clay

Wei-Hsieng Huang 黃維賢 Senior Specialist

163. The Synthesis of Hydroxycitronellal

Ping-Hsien Yeh 葉炳賢 Senior Specialist

35. Mining Research & Service Organization, MOEA

(1) **Class B**

164. Occurrence of Geothermal Fluid in the Matsao Geothermal Area, Tatun Volcano Group

Wen-Tse Cheng 鄭文哲 Geophysicist

165. On the Minor Elements in the Takanshan Limestone, Kaohsiung

Chi-Hsien Chen 陳志賢 Geologist

(2) **Class D**

166. Subsurface Geology of the Matsao Geothermal Area

Yung-Juh Wu 吳永助 Assistant Geologist

167. Investigation of Chemical Variation of Geothermal Steam

Feng-pyng Cherng 程楓萍 Assistant Geochemist

36. Union Industrial Research Institute, MOEA

(1) Class A

168. The Study on Electric Insulating Varnish for Motor Coil

Ping-Yuang Chen 陳秉源 Senior Chemist

37. Chinese Air Force, Weather Central

(1) Class C

169. The Research of Wind Force of Typhoons Affecting Taiwan

Tse-Ming Lin 林則銘 Colonel, Commander

170. The Research of Wind Force of Typhoons Affecting Taiwan

Chia-Chung Yu 俞家忠 Lt. Col. Deputy Commander

171. The Research of Wind Force of Typhoons Affecting Taiwan

Shih-Ting Wang 王時鼎 Lt. Col. Station Chief

172. The Research of Wind Force of Typhoons Affecting Taiwan

Ko-Kung Chu 曲克恭 Colonel, Deputy Commander

(2) Class D

173. The Research of Wind Force of Typhoons Affecting Taiwan

Fu-Chang Wang 王黼章 Lt. Colonel

174. The Research of Wind Force of Typhoons Affecting Taiwan

Tsai-Wang Lin 林財旺 Major

B. BIOLOGICAL, AGRICULTURAL AND MEDICAL SCIENCES

生物及醫農科學

1. Academia Sinica

(1) Special Grant

1. Biochemical Mechanism of Plant Cell Wall Maturation

Jong-Ching Su 蘇仲卿 Research Fellow

(2) Class C

2. Biochemical Studies on the Development and Differentiation Studies on the Cell Wall Polysaccharide Synthesizing System: B. Effect of Nucleotides Other than Uridylate on UDP-Glucose: D-fructose 2-glycosyltransferase of Bamboo Shoots

Chao-luan Yang 楊兆鸞 Assistant Research Fellow

2. National Taiwan University

(1) Special Grant

3. Response of Oil and Protein of Soybean Seeds to Temperature under Controlled Conditions: I. Influence of Constant Temperatures at Pod Filling Stage on the Oil and Protein Contents of Soybean Seeds
Wen-tong Tang 湯文通 Professor
4. Effects of "Right" and "Wrong" in Human Learning
In-Mao Liu 劉英茂 Professor
5. Chemical Kinetics of Rice Straw and Green Manure Decomposition in the Soils
Tsen Tuo Chen 陳振鐸 Professor
6. On Problems of Sampling Unit and Its Layout for Crop Trials: I. In Reference to Rice and Tobacco
Chueh-ming Wang 汪厥明 Professor
7. Reversibility of Neuromuscular Blockade by Neurotoxins from Elapid and Sea Snake Venoms
Chen-Yuan Lee 李鎮源 Professor
8. A Study on Carcinogen in Moldy Food Products
Ta Cheng Tung 董大成 Professor

(2) Class A

9. Tests of Carbohydrate Tolerance in the Chinese Newborn Infants
Ting-Chien Lee 李廷堅 Professor
10. Clinical Diagnosis and Significance of Prominent Precordial T Waves due to Myocardial Infarction
Hsi-Chin Tsai 蔡錫琴 Professor
11. Epidemiological Studies on Blackfoot Disease in Taiwan: An Experimental Study on the Effect of Nutrition and Artesian Well Water in the Causation of Blackfoot Disease
Kung-pei Chen 陳拱北 Professor
12. A Study on the Effect of Ethrel in Promotion of Pistillate Flowering and Growth in *Lagenaria vulgaris* Ser.
Han Huang 黃涵 Professor
13. Studies on the Metabolism and Degradation of Pesticides in Nature: I. Persistence of Organochlorine Insecticides Aldrin and Heptachlor in Taiwan Soils
Yuh-Lin Chen 陳玉麟 Professor

14. Biological Characteristics of Herpes Type Virus-carrying Nasopharyngeal Carcinoma and Burkitt Lymphoma Cell Lines: I. Induction of Cell Transformation and Immune Response in Baby Taiwan Monkeys
Czau-siung Yang 楊照雄 Professor
15. Investigation on Distribution of Leptospiral Agglutinin of Domestic Animals in the World: III.
Yong-Piao Liu 劉榮標 Professor
16. Annual Growth Cycle of the Vine and the Fruit Development of Grapes in Taiwan
Yeou-der Kang 康有德 Professor
17. Effects of Different Spacings on the Form, Productivity Weight, and Site Quality on Cryptomeria Stands
Tze-ting Wang 王子定 Professor
18. A Study on Host Range of the Rice Stem Rot Fungi
Chi-Chang Chen 陳其昌 Professor
19. Determination of Mating Types of Commercial Cultivated Mushroom, *Agaricus bisporus*
Hsi-Hua Wang 王西華 Professor
20. Roentgenologic Studies of the Effects of Rapid Decompression and Hypoxia on the Gall Bladder in Cats
Hwai Sze Fang 方懷時 Professor
21. The Effect of Personality and Information on Assumed Size
Fa-yu Cheng 鄭發育 Professor
22. Studies on Alkaline Protease Produced by Microorganisms
Yuan-chi Su 蘇遠志 Professor
23. Effects of Desipramine and Imipramine on the Nerve, Muscle and Synaptic Transmission of Rat Diaphragms
Chuan-Chiung Chang 張傳炯 Professor
24. Antiarrhythmic Action of Tetrodotoxin in Various Animal Species
Ting-Fei Huang 黃廷飛 Professor
25. A Phytochemical Study of *Eucommia Ulmoides*
Yun-Tao Sun 孫雲燾 Professor
26. Nature of Drug Tolerance in *Sclerotium rolfsii*
Lung-chi Wu 吳龍溪 Professor
27. A Study on *Anicteric hepatitis*
Zuei-Low Sung 宋瑞樓 Professor

28. A Study on the Mechanism of the Toxicity of Mimosine
Kuo-Huang Lin 林國煌 Professor
29. Studies on the Manufacturing of Particleboard from Wood Species Grown in Taiwan
Shuen-Chao Wu 吳順昭 Professor
30. *In vitro* Cultivation of *Schistosoma japonicum*
Jui-Kuang Chiu 邱瑞光 Professor
31. Studies on the Problems of Taiwan Plywood Export and Its Obstacles
Cheng Chow 周楨 Professor
32. Mineralogy and Related Chemical Properties of the Red Soils Developed from Volcanic Detritus and Two Pyroxene Andesite in Tatunshan Region
Joug-Min Chang 張仲民 Professor
33. Cephalometric Growth Studies of Cranio-facial Complex in Chinese: III. The Dimensional and Morphological Growth Changes of the Mandible
Yu-Ching Hong 洪鈺卿 Professor
34. A Study of the Release of Catecholamines from the Cat Adrenal Glands by Nicotine and Dimethylphenylpiperazinium
Fu-Li Lee 李復禮 Professor
35. Studies on the Toxic Metabolic Products of *Botryodiplodia theobromae*: Part I. Isolation of Toxic Metabolites from Mycelium
Yu-Shih Chen 陳幼石 Professor
36. A Study on the Transmission of Newcastle Disease Virus: II. Avian Viruses Transmitted through the Eggs of *Ascaridia galli*
Yung-Chi Lee 李永基 Professor
37. Responses of Root Development and Fruiting of Peanut to the Residual Effect of Herbicides under Various Water-tables
Chi-Chu Wang 王啓柱 Professor
38. The Influence of Rhythmically Fluctuating Temperature on the Development and Reproduction of the Green Peach Aphid, *Myzus persicae* Sulzer, and the Parasitism of Its Parasite, *Ephedrus persicae* Froggatt
Sze-Jih Hsu 徐世傑 Professor
39. Studies on Net Dietary Protein Calories Per Cent
Po-Chao Huang 黃伯超 Professor
40. The Pituitary FSH content and the Hypothalamic FSH-RF Content of Old Female Rats
Ming-Tsung Peng 彭明聰 Professor

41. The Effects of Herbicides on the Growth of Seedlings of *Bischofia javanica* and *Fraxinus formosana* and Weed Control
Pao-Chang Kuo 郭寶章 Professor
42. Fractionation of Browning Reaction Product Formed in Reducing Sugar-amino Acid System by Sephadex Column Chromatography and Antioxidative Activity of Each Fraction
Po-Tung Hsieh 謝伯東 Professor
43. A Study on the Life History and Control of Rhinoceros Beetle (*Oryctes rhinoceros*) in Taiwan: A Study on Its Integrated Control
Shi-Tao Yie 易希陶 Professor
44. The Normal Embryonic Development of Domestic Ducks
Robert Chuen-Shyang Ma 馬春祥 Professor
45. A Study on the Extracting Condition of Pectinesterase from Tomato Pulp
Yung-Chuan Huang 黃永傳 Professor
46. Comparative Studies on the Flavor Components Produced by the Solid and Liquid Processes of Kaoliang Liquor
Peh-Wen Liu 劉伯文 Professor
47. The Studies on Scientific Methods for Estimating the Quality of Teas: Rapid Analytical Methods for the Major Constituents Related to the Taste of Teas and Their Correlation to the Quality
Hon-Kai Ho 何芳陔 Professor
48. The Effects of Gamma Radiation on the Spermatogenesis and the Nervous Activity of *Chilo suppressalis* Walker
Peter May Tang 唐美逸 Professor
49. Studies on the Hygienic Safety of Animal Products in Taiwan: I. Residues and Changes of Antibiotics in Meat Tissue
Li-Chih Chen 陳立治 Professor
50. A Study on Pig Blood Group in Taiwan
Teng-Yuan Lee 李登元 Professor
51. Serum Lipid Studies on Atherosclerosis Patients in China
Jui-san Chen 陳瑞三 Professor
52. A Study on the Multiple Covariance Analysis and the Multivariate Analysis of Variance for the 3 Factorial Confounding Experiments
Shu-fan Yeh 葉樹藩 Professor
53. Purification of the Anticoagulant Principle of *Aghistrodon acutus* Venom
Chao-ho Ouyang 歐陽兆和 Professor

54. Intercisternal Parallel Filament in the Endoplasmic Reticulum
Huai-San Lin 林槐三 Professor
55. Electronic Monitoring of the Fetus during Labor
Hsi-Yao Chen 陳哲堯 Professor
56. Studies on the Mineral Nutrition of *Asparagus officinalis* L.: I. Influence of Nutritional Status of the Root on the Quality and Quantity of Products
Hong-Chi Lin 林鴻淇 Professor
57. Studies on the Stem Form and Volume Table Construction of *Cryptomeria* in the Experimental Forest of Taiwan University
Yong-Chi Yang 楊榮啓 Professor
58. A Comprehensive Study on the Theory and Application of Diallel Method: I. The Primary Studies on the Design and Statistical Methods of Diallel and Statistical Methods of Diallel Cross
Lu-Chih Chang 張魯智 Professor

(3) Class B

59. Studies on the Movement of Soil Water in Paddy-upland Rotational Field: I. Effect of Rainfall and Seasonal Fluctuation of Ground Water Levels on Soil Moisture Content in the Root Zone of Paddy-upland Rotational Field
Yuh-Piau Hsu 徐玉標 Associate Professor
60. Effects of Increased Portal Blood Inflow on the Liver
Kuang-Yung Hsu 許光鏞 Associate Professor
61. Auxiliary Liver Transplantation as a Temporary or Permanent Support to the Failing Liver
Chun-Jean Lee 李俊仁 Associate Professor
62. The Clinical Pattern of Rheumatic Heart Disease in Taiwan
Wen-Ping Tseng 曾文賓 Associate Professor
63. Synthesis of Uracilchromone Derivatives
Kuang-Kann Hsu 許光塗 Associate Professor
64. A Comparative Study between "Mal-adjusted" and "Well-adjusted" Public Junior Middle School Boys
Chen-Chin Hsu 徐澄清 Associate Professor
65. Further Studies on the *in vitro* Culture of Excised Rice Roots
Kwan-Long Lai 賴光隆 Associate Professor
66. Studies on the Staining and Wood-destroying Fungi of Major Hardwood Grown in Taiwan
Tou Chen 陳道 Associate Professor

67. Studies on the Primary Structure of Abrin
Jung-Yaw Lin 林榮耀 Associate Professor
68. A Retrospective Study on Cancer of the Nasopharynx
Tong-Ming Lin 林東明 Associate Professor
69. Electron Microscopic and Cytochemical Studies of the Mouse Subcommissural Organ
I-Li Chen 陳以理 Associate Professor
70. The Classification of Basic Attentional Dispositions, and the Construction of Tools for Measuring Them
Yung-Ho Ko 柯永河 Associate Professor
71. The Relationship between Anxiety and Performance of Easy and Difficult Tasks under Failure-induced and Pain-induced Stress
Kuo-shu Yang 楊國樞 Associate Professor
72. A Comparison of Choice Responding in Chinese and American Children
Ellen Yang 楊依蓮 Associate Professor
73. Heart-rot Disease of *Chamaecyparis obtusa* f. *Formosana* in Taiwan
Zuei-ching Chen 陳瑞青 Senior Specialist
74. Studies on the Hydrological Balance in Stands of Taiwania (*Taiwania cryptomerioides*) and Cryptomeria (*Cryptomeria japonica*)
Peter Chū-San Lin 林琚三 Associate Professor
75. Antigenic Analysis of Soybean: Trypsin Inhibiter, Its Antigenicity and Interactions with Specific Antibodies
Shiau-Yen Chiu 居小燕 Associate Professor
76. Studies on the Nutritional State of Potassium in the Banana Plants
Yu-Yuan Yeh 葉育元 Associate Professor
77. Studies on Liver Fluke Disease in Taiwan: III.
Yong-shau Shien 沈永紹 Associate Professor
78. A Study on Hepatic Scintiscanning Using Double Radionuclides in the Diagnosis of Primary Hepatoma
Chuang-Ching Chen 陳傳慶 Associate Professor
79. Isolation of Nucleoproteins and DNA from Formosan Mullet Testes
Shu-mei Ting 丁淑美 Associate Professor
80. Effect of force-feeding Excess Methionine on Performance of Growing Male Chick
Ching-Pai Yang 楊清白 Associate Professor

81. Studies of the Primitive Lymphatic Apparatus in the Lungs of *Macaca cyclopis*
Hsi-Kuei Tsai 蔡錫圭 Associate Professor
82. The Effect of Hyperosmolarity on Algesic Agent-induced Pain
Hwa-Mau Liu 劉華茂 Associate Professor
83. Morphological Studies on the Flowers and Fruits of the Order Magnoliales in Taiwan
Jih-Ching Liao 廖日京 Associate Professor
84. Biochemical Changes in *Dendrocalamus latiflours* Munro during Flowering
Ching Kao 高 清 Associate Professor
85. Radioautographic Study on Activities of Giant Multinucleate Cells Induced by Sendai Virus: II. Uptake of L-leucine-4, 5-H³
I-Hung Pan 潘以宏 Associate Professor
86. Effects of Controlling Oxidation Enzyme Activity and Freezing Methods of the Quality of Frozen Mushrooms
Tzuu-Tar Fang 方祖達 Associate Professor
87. Oxygen Consumption in Seed Germination and Seedling Growth of Different Races of Cunninghamia
Chia-Hua Chiang 姜家華 Associate Professor
88. Clone Bank Establishment of Taiwan: II. A Study on the Flowering Effect of Gibberlic Acid to the Grafts of Taiwan
Fan-Hsi Kung 孔繁熙 Associate Professor
89. Studies on the Isomerization of Glucose into Fructose with Sodium Hydroxide
Chien-Tse Yang 楊建澤 Associate Professor
90. The Effect of Radiation on Tissue of the Dog: I. The Effect of Cortisone on Tissue Changes after Radiation
Hsueh-wan Kwan 關學婉 Associate Professor

(4) Class C

91. Radiological Study on Hip Dysplasia in the German Shepherd Dog
Chao-chien Ho 何昭堅 lecturer
92. Anastomosis of the Vas Deference in Dogs
An-Chung Lin 林安仲 Lecturer
93. Effects of "Right" and "Wrong" in Human Learning
Chong-Jen Chuang 莊仲仁 Lecturer
94. The Cerebral Vascular Change in Normal Chinese
Chun-Chung Wu 吳俊重 Lecturer

95. Experiments on the Regulation of Flowering of Pot Azaleas
Ming-Jing Lee 黎民敬 Lecturer
96. Further Studies on the *in vitro* Culture of Excised Rice Roots
Chin-Ri Hou 侯清利 Lecturer
97. The Manufacture of Catalyst-heat Cured Wood-plastic Combinations under Pressure
Ching-mu Tsai 蔡金木 Lecturer
98. Studies on Phosphatase in Milk: II. Studies on Reactivation of Phosphatase in Post-pasteurization of Milk
Hong-Chih Tseng 曾弘智 Lecturer
99. Inhibition of the Browning Degradation of a 3-deoxy-glucosone an Intermediate in Browning of Sugar Solution, by Sulfite
Shi-shun Tsai 蔡錫舜 Lecturer
100. A Study on the Rate of Effective Rainfall from the View Point of Soil Moisture Contents
Ming-Tang Wu 吳銘塘 Lecturer
101. Giant Polynuclear Cell Formation Induced by BCG
Seng-Tien Chung 鍾森田 Lecturer
102. Preparation of Aerial Stand Volume Table for Cryptomeria
Kuo-mu Chiao 焦國模 Lecturer
103. Some Personality Correlates of Individual Modernity among Chinese College Students
Pen-Hua L. Yang 李本華 Lecturer
104. An Immunoglobulin Study of Chinese New-born Infants and Cases with Hydrops Fetalis
Wen-Tsuo Chiang 江文哲 Lecturer
105. A Comprehensive Study of the Ei River and Kaohsiung Harbour Pollution
Fung-Chang Sung 宋鴻樟 Lecturer
106. Luteinizing Hormone-releasing Factor or Hypothalamic Extracts of Aged Rats
Wan-Pang Pi 畢萬邦 Lecturer
107. Studies on the Combined Analysis of Covariance of Heavy Fertilization and Dense Planting vs Ordinary Fertilization and Planting in the Local Experiments of Early Maturing Rice Varieties
Ming-Lai Shen 沈明來 Lecturer

108. Endoscopiacal Study of Gastric Mucosa Flat Lesions
Teh-Hong Wang 王德宏 Lecturer
109. A Study on the Microbial Flora of External Ear Canals of Dogs
Chun-tshen Wang 王烱辰 Techologist
110. Studies on the Strobilus of Taiwan Red Cypress and the Viability of Its Pollen Grains
Cheng-min Kung 龔政敏 Specialist
111. Studies on the Canopy Interception and Stemflow of Precipitation by Taiwanian and Japanese Firs
Wen-tsuen Chien 簡文村 Senior Technician
112. The Studies on Scientific Methods for Estimating the Quality of Teas—The Rapid Analytical Methods for the Major Constituents Related to the Taste and the Correlation to the Quality
I-ni Ting 丁一倪 Lecturer
113. Biochemical Studies on the Development and Differentiation: Studies on the Cell Wall Polysaccharide Synthesizing System: A. Polysaccharide Synthesis from GDPG in Bamboo Shoots
Hsien-Yi Sung 宋賢一 Lecturer
114. A Study on the Eye-ground of Patients Suffering from Systolic Hypertension Due to Hyperthyroidism
Ping-Kang Hou 侯平康 Lecturer
115. Protein Metabolism in the Rats in Relation to Non-protein Caloric Source by Varying Fats and Fat/Carbohydrate Ratio
Yuh-Chi Tsai 蔡玉吉 Lecturer

(5) Class D

116. Roentgenological Studies of the Effects of Rapid Decompression and Hypoxia on the Gallbladder in Cats
Chau-Fung Chen 陳朝峰 Assistant
117. Studies on the Manufacturing of Particleboard from Wood Species Grown in Taiwan: I. Effects of Particle Size, Particle Shape, Particle Moisture Content and Compression Ratio on the Physical and Mechanical Properties of Particleboard
Chih-I Tsao 曹志毅 Assistant
118. An Animal Experiment on Causal Mechanism of Blackfoot Disease
Yi-Chang Lin 林宜長 Assistant

119. Carcinogenic Substances from Taiwan Food Stuff: Studies of Aflatoxin B₁-like Compounds from the Culture of *Aspergillus* Genus
Chu-Hung Chung 鍾楚紅 Assistant
120. The Effect of Radiation on Tissues of the Dog: II. The Effect of Stannous Fluoride in the Prevention of Radiation Caries
Yu-Yuan Shiao 蕭裕源 Assistant
121. A Study on the Metabolites of *Penicillium* sp. Isolated from the Stored Unhulled Rice of Taiwan
Shou-san Tung 董修三 Teaching Assistant
122. The Effects of Adhesives and Different Adhesives Ratio on Strength of Particle Board
Dar-Shung Chung 鍾達雄 Assistant
123. Studies on the Forest Plants of Taiwan—Studies on the Genus *Cirrhopetalum* (*Orchidaceae*) of Taiwan
Hong-jye Su 蘇鴻傑 Assistant
124. Response of Oil and Protein of Soybean Seeds to Temperature under Controlled Conditions: II. Influence of Fluctuating Temperatures at Pod-filling Stage on the Oil and Protein of Soybean Seeds
Ching-huei Kao 高景輝 Assistant
125. Studies on the Mineral Nutrition of *Asparagus officinalis* Linn: I. Influence of Nutritional Status of Root on the Quality and Quantity of Products
Tse-Chou Chang 張則周 Assistant
126. The Pituitary FSH Content and the Hypothalamic FSH Content of Old Female Rats
Hive-Ho Huang 黃輝和 Assistant
127. A Neuroanatomical Study of the Corticospinal Tract of the Albino Rat
Wen-Pin Chen 陳文彬 Assistant
128. A Study on the Anticoagulant Principle of Formosan Cobra (*Naja naja atra*) Venom
Dong-Sheng Chen 陳東勝 Assistant
129. Studies on the Toxicity of Carcinogenic Bifunctional Aminoazo Dyes
Shwu-Ching Horng 洪淑卿 Teaching Assistant
130. Effects of Desipramine on the Nerve, Muscle and Synaptic Transmission of Rat Diaphragm
Sing-Tai Chuang 莊幸代 Assistant

131. Response of Fruiting of Peanut to the Residual Effect of Herbicides under Various Water-tables
Shin-Shinge Chang 張新軒 Assistant
132. *In vitro* Transformation of Taiwan Monkey Leukocytes by Herpes-type Virus-carrying Nasopharyngeal Carcinoma and Burkitt Lymphoma Cell
Chien-Ts Chu 朱健次 Assistant
133. The Cruciferae of Taiwan
Shao-Shun Ying 應紹舜 Teaching Assistant
134. Studies on the Problems of Taiwan Plywood Export and Its Obstacles
Kowk-Chung Lee 李國忠 Assistant
135. Antigenic Analysis of Soluble Antigens Derived from Nasopharyngeal Carcinoma and Burkitt Lymphoma Cell Lines
Jwo-Farn Chiou 邱卓凡 Teaching Assistant
136. Performance of a Hydroclone in Concentrating Dillute Aqueous Synthetic Detergent
Jer-Yian Ho 何哲彥 Teaching Assistant
137. Simulation of Digital System
Nai-Cheng Liu 劉乃誠 Assistant
138. A. Experimental Study on the Vacuum UV Spectra of Zn, Mg and Ma B. Preliminary Experiment on the Vacuum Optical Coating
Chin-Yen Lee 李清彥 Assistant
139. The Physical Geography Foundation of Land-use in the West Slopes of Tatu Tableland
Miaw-shong Chai 蔡茂常 Assistant
140. Studies on the Nutritional State of Potassium in the Banana Plants
Hong-Huei Lai 賴宏輝 Assistant
141. The Utilization of the Trapping for the Coconut Rhinoceros Beetle (*Cryptes rhinoceros*) Control in Taiwan
Wu-Kang Peng 彭武康 Assistant
142. Studies on the Host Range of Rice Stem Rot Fungi
Wen-Shi Wu 吳文希 Assistant
143. Effect of Force-feeding Excess Methionine on Performance of Growing Male Chick
Chwen-li Wu 吳春利 Assistant

144. Studies on the Metabolism and Degradation of Pesticides in Nature: I. Persistence of Organochlorine Insecticides Aldrin and Heptachlor in Taiwan Soils
Yung-ho Su 蘇永和 Assistant
145. Effect of Cultural Conditions on Production of Surface Antigen in Nasopharyngeal Carcinoma and Burkitt Lymphoma Cell Lines
Shen-wu Ho 何憲武 Assistant
146. The Influence of Rhythmically Fluctuating Temperature on the Development and Reproduction of the Green Peach Aphid, *Myzus persicae* S., and the Parasitism of Its Parasite *Ephedrus persicae* F
Err-Lieh Hsu 徐爾烈 Assistant
147. Effects of the Plow Depth on the Soil Moisture and Product of Crops
Cheng-show Yeh 葉政秀 Assistant
148. Analysis on the Quality of Frozen Mushrooms Treated by Enzyme Inhibition
Shau-mei Ou 區少梅 Assistant
149. A Study on the Propulsive Motility of Small Intestine in Hypophysectomized
Ying-i Peng 彭英毅 Assistant

3. National Taiwan Normal University

(1) Special Grant

150. Effect of Yeast RNA on Synthesis of Serum Protein and Muscular Protein in *Misgurnus anguillicaudatus*
Tuan-Sheng Miu 繆端生 Professor

(2) Class A

151. Effects of Social Environment on Rate of Learning and Rate of Forgetting in Elementary School Children
Chun-hsing Chang 張春興 Profecor

(3) Class B

152. Effects of Stimulus Changes on Orienting Reflex
Yung-hwa Chen 陳榮華 Associate Professor

(4) Class C

153. The Classical Conditioning of the GSR to the Visual Verbal-stimuli—Development of Word Meaning
Chen-shan Lin 林清山
154. Distribution Patterns of *Angiostrongylus cantonensis* in *Achatina fulica*
Yung-fu Wen 溫永福 Lecturer

155. Effects of Yeast RNA on the Serum Phosphatase and Protein Synthesis in
Tilapia mossambica

Ho Shih 施 河

(5) Class D

156. The Effect of RNA on Synthesis of Serum Pattern and Muscular Protein
in *Misgurnus anguillicaudatus*

Shiann-yee Lee 李憲一 Assistant

157. The Effects of Stimulus Changes on Orienting Response

Wu-tien Wu 吳武典 Assistant

4. National Chunghsing University

(1) Special Grant

158. The Management of the Clone Bank of Luan-tai-fir

Yeh-Ching Liu 劉業經 Professor

159. Studies on the Breeding Behavior of High Oil and High Protein Content of
Soybean

Ying-Chuan Lu 盧英權 Professor

160. Studies on the Phytotoxin of *Pseudomonas putida* Ro 26 and Its Relationship
with the Poorly Drained Soil and Yield of Rice

Maria M. H. Wu 吳敏慧 Professor

161. Electron Microscopic Study of Mycoplasma-like Organisms Associated with
Plant Host and Insect Vector of Rice Yellow Dwarf

Moh-Jih Chen 陳脈紀 Professor

162. Investigation and Classification of the Cerambycids of Taiwan

Shu-chen Chang 張書忱 Professor

163. Studies on Physiology of Parasitism: II. Effect of *Helminthosporium oryzae*—
Toxin on Cellular Physiology of Infected Plant Tissues

Mong-Shang Kuo 郭孟祥 Professor

164. Studies on the Plant/Water Relations: I. A Study of the Stomatal Aperture
and Plant/Water Relations in Fruit Trees

Ching-yih Chen 陳清議 Professor

(2) Class A

165. The Ecology *Fusarium moniliforme* on Rice with Special Reference to Its
Perfect Stage "*Gibberella*"

Dah-wu Chen 陳大武 Professor

166. An Analysis of the Rice Stem Borer Moth (*Chilo suppressalis* Walker)
Collected by Means of Light-traps
Ku-Sheng Kung 貢穀紳 Professor
167. The Effect of Gibberellin for the Development of Luchu Pine
Cheng-Tung Chen 陳振東 Professor
168. Factors Affecting Sporulation of Plant Pathogen
Shou-kung Sun 孫守恭 Professor
169. A Study on the Effects of Site to the Stand-growth of *Cryptomeria* Plan-
tation
Shen-Hsiao Liu 劉慎孝 Professor

(3) Class B

170. The Design and Use of Studies Instruments for Forest: I. Slide Rule for
Design of Curve of Forest Road II. Device of Drawing and Calculation for
the Volume of Earth Work
Shou-Cheng Lin 林守誠 Associate Professor
171. Role of Ascorbic Acid in the Growth and Sex Expression of *Cucumist*
sativus L.: Part I
Ming-Chang Huang 黃敏展 Associate Professor
172. Studies on the Comparison of the Strength, Hardness, and Antishrink
Efficiency of Woods Treated with Monomers of Several Resins
Kun-fu Liao 廖坤福 Associate Professor
173. The Genus *Arachniodes* Bl. and Its Allies in Taiwan
Wang-Chueng Shieh 謝萬權 Associate Professor
174. Direct Effect of Oxygen Concentration in Soil on the Growth of Paddy
Rice
Tse-Chun Yang 楊策羣 Associate Professor
175. Studies on *Cercospora* Leaf Spot of Banana: IV.
Hsi-Ching Wang 王錫慶 Associate Professor
176. Experiment on the View Rooting of China-fir Sucker Cuttings
Chu-Po Ho 賀主伯 Associate Professor
177. Biological and Immunological Studies of Soybean Mosaic Virus Strains
You-Hsin Han 韓又新 Associate Professor

(4) Class C

178. A Study on Soil Morphological and Physico-chemical Properties of Reddish
Brown Soil in Taichung Area
Ming-Ko Wang 王明果

179. Studies on the Relationship between Several Physiological Functions of Plant and the Soil Moisture Stress
Hsing-sun Chang 張杏生 Lecturer
180. Infrared Spectrophotometric Determination of Degree of Unsaturation of Fats and Oils
Shu-Hua Chen 陳淑華 Lecturer
181. Physiological Studies on the Water Relation of Important Forest Trees in Taiwan: III.
Chun-Te Chang 張峻德 Lecturer
182. A Study on the Micro Nutrient Status of Deciduous Fruit Trees
Yin-Po Wang 王銀波 Lectures
183. The Application of Grafting of Forest Tree for Breeding
Yung-Kuen Fang 方榮坤 Lecturer
184. A Comparison of Bionomics between *Hirschmanneilla oryzae* and *H. gracilis*
Yih-yaw Lin 林奕耀 Lecturer
185. Studies on the Distribution and Properties of Lactic Acid Bacteria in Cow's Milk in Taiwan: II. On Cow's Produced in the North Part of Taiwan
Chung-hsung Shih 施宗雄 Lecturer
186. Utilization of Hydrocarbon by M.O.: Studies on Organic Acid Fermentation
Chien-Jen Chiou 邱健人 Lecturer
187. Studies on the Inheritance of Earliness Gene-block in Rice
Kuo-Hai Tsai 蔡國海 Technician
188. A Study on Bird-alarming Technique and Its Theory of AV-alarm Tower System on Rice Crop
Yang-ren Hwang 黃陽仁 Lecturer

(5) Class D

189. Studies on the Breeding Behavior of High Oil and High Protein Content of Soybean
Huusan Yen 顏 虎 Teaching Assistant
190. The Ecology of *Fusarium moniliforme* on Rice with Special Reference to Its Perfect Stage "Gibberella"
Hoang-kao Hsu 徐鴻臬 Assistant
191. The Convolvulaceae of Taiwan
Chern-Hsiung Ou 歐辰雄 Assistant

192. Studies on the Plant/Water Relations: I. A Study of the Stomatal Aperture & Plant/Water Relations in Fruit Trees

Joung-nen Chen 陳忠男

Teaching Assistant

5. National Defense Medical Center

(1) Special Grant

193. Role of Vitamin B₆ Derivatives in Enzyme Stabilization

Foo Pan 潘 福

Professor

194. An Appraisal of the Current Concept on Mechanism of Goitrogen-induced Sex Transformation in Frog Tadpoles

Chih-Yun Hsu 許織雲

Professor

195. Further Studies on Cardiac Muscle Homogenates of Hypodynamic Hearts

Richard C. Li 李 鉅

(2) Class A

196. Immunological Correspondence of Taiwan Natricine and Colubrid Snakes as Well as Their Evolution

Shou-Hsian Mao 毛壽先

Professor

(3) Class B

197. A Comparative Study of the Papanicolaou Technic and the Fluorescence Method for Diagnostic Cytology

Kang-chu Chu 朱康初

Associate Professor

(4) Class C

198. Amino Acid Specificity of Rat Liver Methionyl-tRNA Synthetase

Gu-gang Chang 張固剛

Instructor

199. Tropical Eosinophilia in Endemic Area of Filariasis in Kinmen County

Yi-Chang Wang 王怡昌

Instructor

200. Effect of Amino Acid Imbalance on Nucleic Acid and Enzyme Activities in Liver

Ming-fang Lin 林明芳

Instructor

201. The Relationship between Hair Follicular Chalone and Hair Growth

Jy-Jye Chang 張之傑

Instructor

202. Effects of Some Synthetic Compounds on Plasma Lipids and Electrolytes

Mao-Hsiung Yen 顏茂雄

Instructor

203. An Oral Factor in the Caloric Adjustment of Rats during Growth or Hypothalamic Hyperphagia

Cheng-Ming Liu 劉正民

Instructor

204. An Evaluation on the Effectiveness of the "Musa Health Station Pamphlet"
Musa District, Taipei, Taiwan
Yaw-tang Shih 石曜堂 Instructor
205. The Effect of Methimazole on Sex Transformation in Hypophysectomized Tadpoles
Hsu-cheng Huang 黃旭正 Instructor
206. Effect of Tannic Acid on Food Intake in Rats
Chang-Tien Tsai 蔡長添 Instructor
207. Effects of Estradiol on Rat's Hepatic and Uptake of Nucleoside
Chu-Tay Tang 唐聚泰 Instructor
208. Dissociation of Avidin-biotin Complex *in vitro*
Su-luning Ho 何世能 Instructor
209. Studies on Rat Liver Cysteinyl-t RNA Synthetase
Gau-Min Duh 杜高閔 Instructor
210. The Interaction of Aflatoxin B₁ with Choline and Its Relative Compounds
Shiuh-sheng Lee 李旭生 Instructor
211. Effects of Ketamine on the Synaptic Transmission in Cat Spinal Cord
Chieh-fu Chen 陳介甫 Instructor
212. Effects of G_s on the Proteic and Nucleic Acid Synthesis of H. Ep-2 Cell
Bang-Kang Guo 郭邦康 Instructor

(5) Class D

213. Role of Vitamin B₆ Derivatives in Enzyme Stabilization
Shou-hsiung Pai 白壽雄 Assistant
214. An Appraisal of the Current Concept on Mechanism of Goitrogen-induced Sex Transformation in Frog Tadpoles
Chiang-hsun Chiang 江建勳 Assistant

6. Tunghai University

(1) Class A

215. The Chemosterilization of the Biting Midge, *Atrichopogon rostratus* (Winertz)
Wesley Keh-chin Sun 孫克勤 Professor

(2) Class D

216. The Catfish of Taiwan
I-heng Chung 鍾以衡 Assistant

7. Kaohsiung Medical College

(1) Special Grant

217. Studies on the Structure-activity Relationships of Cobrotoxin: I & II

Chen-chung Yang 楊振忠 Professor

(2) Class A

218. Studies on the Alkaloids of *Dehassia triandra* Merr.

Sheng-Teh Lu 盧盛德 Professor

219. Immunochemical Studies on Cobrotoxin

Chun-chang Chang 張均昌 Professor

(3) Class B

220. Components in *Champereta manillana* and Components of *Wickstroemia indica* II, III

Wen-hsing Lin 林文星 Associate Professor

(4) Class C

221. An Experimental Study on the Spinothalamin Tract and Its Related Tracts in the Monkey (*Macaca cyclopis*)

Zuei-Yuan Chen 陳瑞源 Lecturer

(5) Class D

222. Studies on the Necrotizing Factor of Formosan Cobra Venom

Robert Hung-chih Chiu 邱鴻志 Assistant

223. Gas Chromatography of Narcotic Analgesic

Yi-Hung Tsai 蔡義弘 Assistant

8. Taipei Medical College

(1) Special Grant

224. Studies on the Constituents of Antitumor Plants

Tsang-Hsiung Yang 楊藏雄 Professor

(2) Class C

225. Studies on the Constituents of Formosan *Salvia plebeia* R. Br.: I.

Kuo-Tung Chen 陳國棟 Lecturer

226. A Study on the Chemical Components of the Seed of *Abrus precatorius*

Hung-Tu Lee 李宏圖 Lecturer

(3) Class D

227. Studies on the Vasodilator Effective Compounds of Plants in Taiwan

Ling-Ling Yang 楊玲玲 Assistant

228. Studies on the Constituents of *Hernandia ovigera* L.

Shih-Chih Liu 劉世智 Assistant

229. Studies on the Alkaloids of Lotus Receptacle

Chi-ming Chen 陳繼明 Assistant

9. Provincial Chiayi Junior College of Agriculture

(1) Class B

230. The Convolvulaceae of Taiwan

Fu-Yuan Lu 呂福原 Associate Professor

231. Studies on the Selection of Breeding Materials in Indica Varieties by the Application of the Principal Component Analysis

Chung-mao Lin 林中茂 Associate Professor

10. Provincial Pingtung Junior College of Agriculture

(1) Class A

232. Studies on the Stratified and Two-stage Sampling Methods Applied in Forest Inventory by Sampling Error and Relative Efficiency Comparison

Pao-lin Yang 楊寶霖 Professor

233. On the Correlation between Certain Chemical Properties of Cropland Soils in Taiwan

Pei-sen Yang 楊培森 Professor

234. The Malvaceae of Taiwan

Ching-en Chang 張慶恩 Professor

235. A Study on the Control of Salmonellae in Balanced Feeds: I. The Investigation of Salmonellae in Commercial Feeds

Ching-mu Cheng 鄭清木 Professor

(2) Class C

236. Studies on the Isolation and Character of Newcastle Disease Virus Obtaining from Ducks in the Field

Hsi-chi Chang 張錫祺 Lecturer

237. The Selection of Coconut Palm

Cheng-Ping Liu 劉正平 Lecturer

(3) Class D

238. Identification of Salmonella Serotype Isolated from Commercial Balanced Feeds

Chao-fu Chang 張照夫 Assistant

239. A Histopathological Study on the Hepatic Diseases of Slaughtered Pigs in the Southern Part of Taiwan

Cheng-I Liu 劉正義

Assistant

11. Provincial Hsinchu Junior College for Teachers

(1) Class C

240. A Study of the Speech Development in Children, Analysis of the Phonemization of Their Sounds

Shu-Hsin Lee 李淑信

Lecturer

12. Chungshan Medical and Dental Junior College

(1) Class A

241. A Biochemical Study on Biosynthesis of Mucopolysaccharides in the Rabbit Submaxillary Gland

Song-Jui Shiow 蕭松瑞

Professor

(2) Class C

242. *In vitro*, a Study of Three Different Fraction of Psidium Root Extract on the Gonadotrophin

Chen-long Chang 張振隆

Lecturer

13. Taiwan Sugar Experiment Station

(1) Special Grant

243. On the Mechanism of the Formation of Humic Acid in the Soils

Thomas S. C. Wang 王世中

Adviser

244. Effective Rainfall on Sugar Cane Fields

Yih Chu 朱益

Senior Specialist

245. A Study on the Phosphate Potential of Some Sugarcane Soils in Taiwan

Chwan-chau Wang 王傳釗

Senior Specialist

(2) Class A

246. Studies of High Protein and Energy Levels in the Diets on Growth Rate and Carcass Quality of Swine

Nai-Lun Tai 戴乃倫

Researcher

247. Effects of Water on Sugarcane Growth, Nutrients and Water in Canes

Tao-Tze Yang 楊滔慈

Senior Plant Physiologist

248. Regulation of the Biosynthesis of Starch and Sucrose in Cane Plant: II
Demonstration and Purification of Starch Phosphorylase and Starch Synthetase in Cane Leaves

Hung-Chao Lee 李洪潮

Senior Plant Physiologist

249. Sugarcane Tissue Cultures in Relations to Diseases
Lii-Sin Leu 呂理樂 Senior Plant Physiologist
250. Studies on Induction of Mutations in Sugarcane: I. Induction of Mutations of Radiation of Gamma-rays
Sung Lee 李 松 Head of Station
251. The Physiology and Genetics of Sugarcane
Chuan-Cheng Lo 羅傳成 Senior Specialist
252. A Study on the Chemical Control of Flowering in Sugarcane
I-Sun Shen 譚貽蓀 Senior Specialist
253. Pork Myoglobin Extraction and Its Heritability Estimation
I-Kuei Hwang 黃以珪 Head of Department
254. Studies on the Polymerization of Phenolic Acids and Humic Acid in the Soil
June-Jiang Shiue 薛鎮江 Senior Soil Specialist
255. A Preliminary Study of Special Line Cross (First Year)
Sen-Chang Wung 翁森昌 Deputy Director
256. A Study on the Combined Application of Plant Growth Regulators and Herbicides to Improve Growth of Ratoon Cane and Chemical Weed Control
Sheng-Yang Peng 彭聲揚 Senior Agronomist
257. A Study on the Total Responses of Sugarcane Treated on Different Growing Stages with Plant Regulants—Effect of Concentration and Time of Pretreatment on the Germination and Growth of Cane
Tun-Po Pao 包敦樸 Head of Department

(3) Class B

258. Effects of Lysine, Methionine and Energy Intake on Milk Secretion and Reproductive Performance of Sows during Pregnancy and Lactating Periods
Shy-Yu Chen 陳錫鈺 Senior Specialist
259. Subdrainage and Natural Leaching as Means of Saline Soil Improvement
Shih-ching Yen 嚴式清 Agronomist
260. A Study on the Decomposition of Organic Manure and the Formation of Humus in Soil with C¹⁴ Tracer Method
Kuo-ming Huang 黃國明 Agronomist
261. Effects of Nutrients N, P, K, on Translocation of Sucrose in Sugarcane Plants
Loh Kong 康 樂 Associate Plant Physiologist
262. Studies on the Oxidation Systems in Sugarcane Cell: The Properties of Sugarcane Mitochondria
Chih-sheng Tsou 鄒麓生 Associate Researcher

(4) Class C

263. Studies on Treatment of Industrial Wastes: I. Studies on Treatment and Application of Fodder Yeast Waste
Pau-Tsung Hwang 黃寶村 Chemical Engineer
264. Studies on the Characteristics of Insect Transmission and Host Range of Sugarcane White Leaf Disease
Chu-te Chen 陳主得 Associate Plant Pathologist
265. A Study on the Growth and Constitution of Tiller and Development of Sugarcane Root in Stony Gravelly Soil
Fuu-Yeu Hsia 夏輔禹 Agronomist
266. Pork Myoglobin Extraction and Its Heritability Estimation
Paul Ting-Jiun Koh 戈定軍 Specialist
267. Studies on Oxidation System in Sugarcane Cell: Oxidases in Sugarcane Cell
Wen-Pin Chen 陳文彬 Assistant Researcher
268. A Preliminary Study on an Outbreak of Trypanosomiasis in Swineherd
Len-Chin Chang 張聯欣 Parasitologist
269. Studies on Three-breed Rotational Crossbreeding in Swine
Jiin-Yuan Huang 黃錦源 Chief of Farm
270. Studies on Swine Infertility—With Special Reference to Thyroid Gland
Ning-Yuan Chou 周凝元 Junior Pathologist
271. A Study of Influences of the Amalgamation of Slow-released and Quick-accelerated Nitrogenous Fertilizers on Sugarcane's Growth and the Nitrogen Absorbed by Sugarcane in Gravelly Sand Soil
Shyue-Yeu Liao 廖學有 Agronomist
272. Studies on the Hydrolysis of Soy-protein by Acid Protease of *Aspergillus niger*
Chiang-Tyaw Leu 呂江調 Assistant Technologist
273. A Study on Application of Soil Conservation Agent Curasol in Autumn Planting Sugarcane to Prevent Soil Erosion and Maintain Uniform Efficacy of Herbidies
Wen-biou Sze 施文標 Associate Agronomist
274. Effective Rainfall on Sugarcane Field
Ming-sen Chyou 邱明森 Assistant Specialist

275. Studies on the Effect of Parasitic Nematodes on Can Yield and Its Control:
The Method for Propagation of Sugarcane Nematodes on Plant Tissue Culture
To-Kun Tsai 蔡德坤 Nematologist
276. A Study on the Effect of Fertilizer Application on Various Positions of
Can Plant on the Uptake of Nutrients of Sugarcane
Shiu-Ching Yang 楊秀青 Agronomist
277. Studies on the Mutation of Fodder Yeast
Suei-fa Lin 林水發 Chemical Engineer
278. A Study on the Relationship between Environmental Factors and Develop-
ment of Larvel Stages of *Matsumuratettix hiroglyphicus* Matsumura
Shiu-lan Yang 楊秀蘭 Assistant Entomologist
279. Effect of Different Ground Water and Nitrogen Levels on the Irrigation of
Spring Planted Sugarcane
Yu-Tsuan Chang 張玉鑽 Associate Agronomist
280. Radioisotope Tracer Method Used for Studying the Effect of Plant Spacing
on Root Surface Absorption Zone
Chin-Hua Chang 張晉華 Associate Soil Specialist

(5) Class D

281. Studies on the Ecology of *Trichogramma australicum*
Tsong-Hong Su 蘇宗宏 Assistant Entomologist
282. The Parasitic Fungi and Its Relation to Soil-inhabiting Insects
Zu-nan Wang 王次男 Assistant Pathologist
283. Studies of High Protein and Energy Levels in the Diets on Growth Rate
and Carcass Quality of Swine
Yu-Shi Shih 施有識 Assistant in Feeding
284. A Preliminary Study of Special Line Cross (First Year)
Chao-Tung Tai 戴兆東 Junior Specialist
285. A Study on the Combined Application of Plant Growth Regulators and
Herbicides to Improve Growth of Ratoon Cane and Chemical Weed Control
Houng-jaan Yeh 葉鴻展 Assistant Agronomist
286. Pork Myoglobin Extraction and Its Heritability Estimation
Cheng-I Liu 劉正義 Junior Specialist
287. A Study on Crossbreeding of the Newly Imported Pietrain, Hampshire and
Duroc Breeds
Chi Wang 王傑 Junior Specialist

288. Effects of Lysine, Methionine and Energy Intake on Milk Secretion and Reproductive Performance of Sows during Pregnancy and Lactating Periods

Lie-Hwa Su 蘇麗華

Junior Specialist

14. Taiwan Agricultural Research Institute

(1) Class A

289. The characteristics and Genesis of Paddy Soils in Central Part of Taiwan

Ku-Wing Leung 梁鉅榮

Senior Soil Specialist

(2) Class C

290. A Study on the Effect of Ethylene Absorbents in Sealed Polyene Bags to Delay the Climacteric Rise of Papaya Fruits during Storage

Der-nan Wang 王德男

Specialist

291. A Study on Effects of Cover Crops and Mulching on Steep Slope Orchard

Hsiao-Tsai Wang 王孝才

Technical Assistant

292. Studies on Taxonomy, Evolution and F₁ Hybrid Seed Production of Pepper

A-Chang Chiou 邱阿昌

Specialist

293. Comparison of the Effect of Growing Conditions on Yield and Component of Yield between Japonica and Indica Varieties of Rice

Ming-hwa Lin 林明華

Technical Assistant

294. The Characteristics and Genesis of Paddy Soils in Central Part of Taiwan

Ching-Yuan Lai 黎靜韻

Soil Specialist

295. Evaluation of Combining Ability and Lysine Content of Opague-2 Inbred Lines of Maize

Tsong-chia Lee 呂宗佳

Junior Specialist

296. 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

Chi-Pen Wen 溫西濱

Junior Specialist

297. Studies on the Productivity and Its Relation with Soil Chemical Properties of the Main Soil Groups in Taiwan

Tze-Shun Lee 李子純

Specialist

298. A Study on Inorganic Nutrient Absorption of Green Asparagus and Its Relationship to Yield

Wen-Lian Huang 黃文良

Junior Specialist

299. The All Possible Cross-combinations of the Selected Progenies

Fang-Ping Young 楊方平

Specialist

300. Studies on the Absorption and Translocation of Organo-arsine Compounds in Rice Plants

Hsin Su 蘇 昕

Assistant Specialist

(3) Class D

301. A Study of the Ecology of *Curvularia* Spp. and Their Pathogeny to Rice Plant

Chi-lu Chu 朱啓魯

Technical Assistant

302. Studies on the Relationships between the Water Absorption and the Different Fertilizer Levels in Soybean

Tiao Lan 藍 調

Specialist

303. Experiment on the Interplanting of Papaya in Pineapple Field

Yun-Jui Hwang 黃榮瑞

Assistant Horticulturist

304. Studies on Integrated Control of *Aleurocanthus spiniferus* Quaintance

Kuo-Chia Wu 吳國家

Junior Entomologist

15. Taiwan Forestry Research Institute

(1) Class A

305. The Floristic Relationship of the Islets to the Main Island of Taiwan

Tsing Liu 柳 楫

Senior Specialist

306. Investigation on the Phreatophytes in Tahan River Downstream Watershed

Lo-min Chang 章樂民

Senior Specialist

307. Mixed Hardwood Kiln Drying Experiment: The Kiln Drying Experiment of Hardwoods Grown in the Northern Part of Taiwan

Tze-Ping Ma 馬子斌

Senior Specialist

308. A Provenance-progeny Test of *Cunninghamia* Complex

Ta-wei Hu 胡大維

Senior Specialist

309. A Study on the Methods of Improving the Stands of Natural Broad-leaved Forest in Taiwan: II. Growth of Plantation Established after Timber Conversion

Liang-pin Hung 洪良斌

Senior Specialist

(2) Class B

310. Estimation of Genetic Parameters and Selection Index in *Cunninghamia* Sp.

Chin-ming Lu 呂錦明

Specialist

311. Experiment on Manufacturing of *Chamaecyparis taiwanensis* Laminated Floor

Zu-Lin Sun 孫祖林

Senior Specialist

(3) Class C

312. Variation in the Growth of Vegetatively Propagated Progenies of *Cunninghamia lanceolata* var. *konishii* from Different Regions
Sang-Gen Hwang 黃松根 Specialist
313. The Correlation between Sapwood and Heartwood Growth of *Acacia confusa* in Various Habitats
Kun-kan Hwang 黃崑崗 Specialist
314. The Formation of Female Strobili and the Development of Cone in *Pinus taiwanensis* Hayata
Jen-Li Wang 王仁禮 Specialist
315. The Application of Different Range Sampling Method in Man-made Forest Survey in Taiwan
I-An Jen 任憶安 Specialist
316. Pulping and Papermaking Experiments on Conversion Hardwood Mixtures: II. Pa Hsien Shan Working Cycle
Yun-Chuan Ku 谷雲川 Specialist
317. Studies on the Retardant of Plywood Treated with Six Chemicals and Their Influence of Gluing Properties
Tang-chou Hsieh 謝堂州 Junior Specialist
318. Form Table and Volume Table of Tree Species of Lauraceae in Taiwan
Sung-Fan Chen 陳松藩 Specialist
319. A Study on the Interception of Rainfall of Swamp Mahogany (*Eucalyptus robusta* Smith) Plantation
Chia-Sheng Pan 潘家聲 Specialist

(4) Class D

320. Natural Pigments: A Study on the Gardenias
Feng-chi Ho 何豐吉 Specialist Assistant

16. Wines Research Institute

(1) Class D

321. Gas Chromatography of Nonvolatile Organic Acids in Wines
Wen-Chuan Chen 陳文川 Assistant Engineer

17. Tobacco Research Institute

(1) Class A

322. Studies on Air Pollution in Relation to the Metabolism of the Nitrogenous Compounds of Tobacco and Its Protective Methods
Sen-Tu Hsieh 謝森圖 Senior Specialist

(2) Class B

323. Studies on Methods of Transmitting Tobacco Leaf Curl Virus by *Bemisia tabaci*: Acquiring the Virus through Parafilm Membrane
Yu-Cheng Chang 張玉珍 Senior Specialist

(3) Class C

324. Studies on the Chlorine Uptake of Tobacco and Its Controlling Measures
Pin-Kuen Hsu 許炳坤 Senior Agronomist
325. Breeding Tobacco with Low Nicotine Content
Tsing-hua Chiang 蔣青華 Agronomist
326. Studies on Technique for Seed Production for New Released Variety T. T. 4
Keh-Chang Ling 凌克昌 Agronomist
327. The Effects of Mammoth Gene on the Inheritance of Certain Agronomic Characters of Flue-cured Tobacco
Sheng-yen Chen 陳盛炎 Agronomist
328. A Study on the Manganese Nutrition of Flue-cured Tobacco in Taiwan
Chin-Fun Tsai 蔡清榮 Agronomist
329. Partial Purification of Tobacco Vein-banding Mosaic Virus
Way-Tung Chin 金慧通 Plant Pathologist
330. Genome Analysis of Tobacco Interspecific Hybrids
I-Nan Ueng 翁義男 Agronomist
331. Effects of Ozone on Tobacco Weather Fleck Preconditioned by Light and Temperature
Jen-Kuei Wu 吳壬癸 Agronomist
332. The Relationship of Root Knot Nematodes to the Bacterial Wilt in Tobacco
Wen-Yen Chen 陳文彥 Plant Pathologist

(4) Class D

333. Studies on Air Pollution in Relation to the Metabolism of the Nitrogenous Compounds of Tobacco and Its Protective Methods
Mo-Yuan Chen 陳茂淵 Junior Agronomist

18. Taiwan Fishery Research Institute

(1) Class B

334. Studies on the Investigation of the Coral Fishing Ground
Chien-Lung Liu 劉建隆 Chief Research Officer

(2) Class D

335. Age, Growth Maturity and Spawning of Spanish Markerel in Taiwan Strait
Tzong-shong Chen 陳宗雄 Junior Specialist

336. Stomach and Stomach Content of Spanish Mackerel

Sing-hwa Hu 胡興華

Junior Specialist

337. Length-weight Relationship and Migration of Spanish Mackerel in Taiwan

Ch'ung-Hui Ch'en 陳春暉

Junior Specialist

19. Kaohsiung District Agricultural Improvement Station

(1) Class C

338. A Study on Soybean Harvesting and Binding Machine

Thai-sung Lee 李再順

Specialist

(2) Class D

339. A Study on Low Seed Setting of Early Maturing Rice Varieties and the Improvement of Its Cultural Practices in the First Crop Season

Fu-Hsiung Lin 林富雄

Technical Assistant

340. Tests for Rice Varietal Resistance to Transitory Yellowing

Ming-Der Chiu 邱明德

Assistant Agronomist

341. A Study on the Efficiency of Selection at Various Spacings in Hybrid population of Soybean

Ah-Tien Hung 洪阿田

Junior Specialist

342. Studies of Summer Vegetables on Soilless Culture in Southern Taiwan

Ying-Ren Chen 陳英仁

Junior Specialist

20. Tainan District Agricultural Improvement Station

(1) Class B

343. Studies on Crude Fat and Crude Protein Content and Residues in Soil after Application of Herbicides in Dryland Crop Field

Chin-sheng Hsu 徐進生

Senior Specialist

(2) Class C

344. Comparison of Pathogenecity between *S. miscanthi* and *S. sacchari*

Shin-chi Chang 張新吉

Senior Specialist

345. Studies on Pollination Method and Fertility Percentage of Sunflower (*Helianthus annuus*, L.)

Sang-ian Hsieh 謝桑煙

Specialist

(3) Class D

346. A Study on Powdery Mildew of Sunflower

Hsin-Cheng Fang 方新政

Junior Specialist

347. Studies on Crude Fat and Crude Protein Content and Residues in Soils after Application of Herbicides in Dryland Crop Field

Shui-Ho Cheng 鄭隨和 Junior Specialist

348. Method for Saving Water and Fertilizer in Planting Cantalope on Coastal Sand Soil

Hu-Yen Huang 黃和炎 Agromist

21. Taichung District Agricultural Improvement Station

(1) Class C

349. Varietal Resistance to Yellow Dwarf of Rice

Ching-chung Chen 陳慶忠 Junior Specialist

350. Studies on the Forecasting Technique of the Rice Blast Disease (*Pyricularia oryzae* CAVARA)

Huoo-Shuh Ho 何火樹 Junior Specialist

22. Taiwan Seed Service, Provincial Dept. of Agriculture and Forestry

(1) Class B

351. Studies on the Genetics and Physiology of Incompatibility Lines in the Yehsen Cabbage

Tzay-Fa Shen 沈再發 Senior Specialist

(2) Class D

352. Studies on the Use of Hybrid Breeding in the Tomato Stigma Pattern: I.

Maiw-Ling Ho 何妙齡 Technical Assistant

353. Studies on the Phenomena and Reasons of Decreasing Germination Rate of Triploid Watermelon after Storage

Yih-Horng Chang 張義弘 Technical Assistant

354. A Study on Embryo Culture-breeding Hybrid of *Brassica pekinensis* Crosses with *Brassica oleracea*

Jen-Shiu Shih 徐仁修 Junior Specialist

23. Taiwan Tea Experiment Station

(1) Class B

355. A Study on the Relationship between Micro- and Macro-nutrient Content of Different Soil Profiles and These Elements Contents in the Leaves with a View to Making Diagnostic Utility

Hwi-min Chu 朱惠民 Senior Specialist

24. Provincial Research Institute for Animal Health

(1) Class A

356. Studies on Lapinized Hog Cholera Virus: Virus Multiplication in Pigs Inoculated with Lapinized Hog Cholera Vaccine

Tsai-Chun Lin 林再春 Senior Specialist

(2) Class C

357. A Comparative Study of Antibiotic Sensitivity between *Streptococcus agalactiae* and *Staphylococcus aureus* of Bovine Mammary Origin

Shou-She Chen 陳守仕 Director

358. Pathological Changes of Marek's Disease Occurred in Taiwan

Cheng-Hsiung Lee 李正雄 Specialist

359. Studies on the Duck Hepatitis Virus Isolated in Taiwan

Yung-Siu Lu 呂榮修 Specialist

360. Safety and Immunogenicity of Cell Line Passaged Newcastle Disease Virus in Chickens

I-Pou Chan 詹益波 Specialist

361. Studies on the Immunity Production of Hog Cholera Antibody in Sow's Colostrum

Shei-Ching Yang 楊喜金 Specialist

(3) Class D

362. Studies on the Production of SPF Pigs: Microbiological Studies on Gastro-intestinal Tract of Secondary SPF Pigs

Yung-Pei Lin 林榮培 Junior Specialist

363. Studies on Improvement of Medium for Frozen-dried Lapinized HC Vaccine

Yii-Shung Liu 劉義雄 Junior Specialist

364. Studies on Lapinized Hog Cholera: Adaptation of Lapinized Hog Cholera Virus in Rabbi Kidney Cell Culture by Bridging Cell

Jei-Fu Su 蘇杰夫 Junior Specialist

25. Taiwan Livestock Research Institute

(1) Class A

365. A Study on Nutritive of Petroleum Protein Locally Produced

Pang-Kan Lee 李邦淦 Senior Specialist

(2) Class B

366. Use of Diallel Mating and Reciprocal Recurrent Selection Method for Swine Breeding

Teh-cheng Chou 周德政 Senior Specialist

(3) Class C

367. A Study on the Beef Production System in Taiwan

Tsai-Ye Chow 周才藝 Director

368. Studies on the Ova Transfer in Cattle

You-Ming Su 蘇祐明 Specialist

369. The Effect of Nitrogen Source from Soybean Oil Meal, Poultry Excreta, and Urea at Different Levels on Rumen Metabolism

Mao-Chiang Chen 陳茂墻 Specialist

370. Intergeneric Crosses between *Zea mays* and *Euchlaena mexicana*

Ye-Shung Sheng 譚貽訓 Specialist

(4) Class D

371. Effect of Enzyme Preparation on the Macerating Activity of Substrate and the Digestibility in Rats

A-Li Hsu 徐阿里 Technical Assistant

26. Yangmei Branch Station, Taiwan Livestock Research Institute

(1) Class C

372. The Effect Diameter of Straw Frozen Semen on the Bull Survival and Conception Rate

Teng-Tsao Hsu 許登造 Director

27. Taiwan Fertilizer Company

(1) Class A

373. Effects of Added Nitrohumic Acid and Nitrohumate Fertilizer on the Physico-chemical Properties of Soils

Ching-Tsun Chiang 江景村 Researcher

374. A Research on the Use of Sulfur-coated Urea for Paddy Rice

Chah-Ching Lee 李珏清 Supervisor

28. Taiwan Serum Vaccine Laboratory

(1) Special Grant

375. The Immunogenicity of Photooxidized Formosan Snake Venoms: Preparation of Polyvalent Antiven in Using Photooxidized Multiple Antigens (Second Report)

Chien-Tao Huang 黃謙道 Deputy Director

(2) Class C

376. A Study on Conditions for Free-drying of BCG Vaccine: II. Effects of Adjuvants and Age of Cultures on Freeze-drying of BCG Vaccine

Chin-Wei Chou 周親維 Chief of Laboratory

377. The Immunogenicity of Photooxidized Formosan Snake Venoms: Preparation of Polyvalent Antivenin Using Photooxidized Multiple Antigens (Second Report)

Shen-Yu Lin 林勝育

Section Chief

(3) Class D

378. Dietary Studies in Mice

Yi-ve Hsu 徐亦薇

Assistant Technologist

29. Provincial Maternal & Child Health Institute

(1) Class A

379. Epidemiological Study on Syphilis in Taiwan

Kuang-Yu Fan 范光宇

Director

30. Chia-Yee Solvent Works, Chinese Petroleum Corporation

(1) Class D

380. A Study on the Numerical Taxonomy of a New Hydrocarbon-utilizing Yeast No. 199

Su-Huei Chang 張淑惠

Chemist

381. Improvement of New Strain No. 199 for Petro-protein Fermentation Induced by N. T. G. (N-Methyl-N'-Nitro-N-Nitro-Soguanidine)

Hung-Ming Chang 張宏明

Chemical Engineer

31. Bureau of Commodity Inspection and Quarantine

(1) Class A

382. Studies on Potato Virus S and Its Strains in Taiwan

Sheng-teh Lee 李賢德

Senior Specialist

(2) Class B

383. Ecological Studies on the Banana Black Rot Pathogen, *Botryodiplodia theobromae* Pat.

Yun-peng Tsai 蔡雲鵬

Senior Specialist

384. Studies on the Parasitism of Cotton Root-knot Nematode (*Meloidogyne incognita acrita*): I. Parasitism Related with the Storage of Second Stage Larva

Wu-ching Su 蘇武卿

Senior Specialist

(3) Class C

385. The Occurrence of the Bruchids in the Imported Beans and Their Damage to the Stored Beans in Taiwan

Lain-Sheng Chen 陳連勝

Specialist

386. Taxonomic Study of Mealybugs Collected in Taiwan
Tsu-Hsin Lin 林自新 Specialist
387. Pests of Stored Grain and Grain Products in Taiwan—Studies on the Biology of the Khapra Beetle, *Trogoderma granarium* Everts: I. Studies on the Effect of Temperature in Relation to the Stadium of the Khapra Beetle, *Trogoderma granarium* Everts (Coleoptera: Dermestidae)
Chun-Kuang Lin 林俊光 Specialist
388. Studies on the Pathogens of Imported Vegetable Seeds: II. Effect of Soil Fungi on Infection and Pathogenesis by Seedborne Pathogens
Shih-Liang Lo 羅世良 Specialist
389. Studies on the Control Factors of Paedogenesis of Cecid Larva, *Heteropeza pygmaea* Winn.
Wan-Chun Lin 林萬成 Junior Specialist
390. A Review of the Mite Family Acaridae from Taiwan
I-Shying Tjiyng 曾義雄 Specialist

2. The Institute of Fishery Bishery, Ministry of Economic Affairs and National Taiwan University

(1) Class B

391. The Preliminary Investigation for Exploitation of Common Squid Resources
Ih-Hsiu Tung 童逸修 Senior Specialist

33. Chiayi Agricultural Experiment Station, Taiwan Agricultural Research Institute

(1) Class A

392. Studies on the Effect of Fruit Morphology Yield and Quality of Banana
Ching-Kuo Chu 朱慶國 Senior Specialist

(2) Class B

393. Studies on Transmission of the Feathery Mottle Complex of Sweet Potato in Taiwan
I-Lang Yang 楊一郎 Plant Pathologist

(3) Class D

394. Studies on the Inheritance of Resistance to Brown Planthopper and Green Leafhopper in Rice
Lung-che Chen 陳隆澤 Junior Specialist

**34. Taiwan Fiber Crops Experiment Station, Taiwan
Agricultural Research Institute**

(1) Class A

395. Ecological Studies on One of the Most Important Dryland Soil-borne Plant Pathogens, *Rhizoctonia solania* Kuhn: IV. The Relation between Rhizosphere Microorganism and the Occurrence of *Rhizoctonia* Seeding Damping-off
Chin-chyu Tu 杜金池 Senior Plant Pathologist

(2) Class C

396. Studies on the Control of Rhizoctonia Damping-off of Flax and Jute by Mycophagous Nematode, *Aphelenchus avenae*
Yung-Hsiung Cheng 程永雄 Plant Pathologist

35. Taipei District Agricultural Improvement Station

(1) Class C

397. A Study on Rate and Method of Phosphate Application in the Poorly-drained Paddy
Kuo-En Kuo 郭國恩 Head of Station

36. Provincial Taiwan Tuberculosis Control Bureau

(1) Class C

398. A Study of the Defaulted Cases of Infectious Pulmonary Tuberculosis on the National Domiciliary Chemotherapy Program in Taiwan
Shi-tang Wu 吳錫鐸 Department Chief

C. ENGINEERING AND APPLIED SCIENCES 工程及應用科學

1. National Taiwan University

(1) Special Grant

1. The Hydrological Study of a Representative Basin on Taiwan Island
Shih-ta Hsu 徐世大 Professor
2. Design and Implementation for Integrated Circuits Applied to the Arithmetical Unit of the Electronic Digital Computer
Sing Chang 張 煌 Professor
3. Propriety of Kirchhoff-Love Hypothesis in the Theory of Thin Shells
Tung-ying Wung 翁通楹 Professor
4. A Study on an Automatic Gain Control System with Noise
Chen-Fa Hsu 許振發 Professor

5. The Analytical Method of Ultimate Design of Prestressed Concrete Beam
Yu-Lin Wang 王玉琳 Professor

6. Computation of Flow in a Curved Open Channel
—Investigation of Flow in a Curved Open Channel (3)—
Yen-Chi Lu 盧衍祺 Professor

(2) Class A

7. Test of Correlation between Ports and Piston Displacement of Two Stroke Engines
Tsu-nien Chin 金祖年 Professor
8. A Study on the Switching Characteristics of Insulated-gate Field-effect Transistors
Chu-Hsien Lee 李舉賢 Professor
9. The Study of Economic Operation in Power System by the Calculus of Variations
Yung-Lung Ma 馬雲龍 Professor
10. On the Fe-C-O-H Equilibrium Diagram
Chen-hsien Hwang 黃振賢 Professor

(3) Class B

11. On the Acceleration Transfer Functions at a Finite Time of Mechanical Systems
Shaw-Dong Chen 陳紹東 Associate Professor
12. Theoretical Analysis of Filtration Mechanism in Filter Press
Wei-Ming Lu 呂維明 Associate Professor
13. Research on Microwave Antennas: The Constant Slope Spherical Spiral Antenna with Nonuniform Excitation
Chun-Hsiung Chen 陳俊雄 Associate Professor
14. The Optimal Encoding of Chinese Characters Utilizing Digital Computers
Wei-Tzen Yang 楊維楨 Associate Professor
15. The Triaxial Characteristics of Consolidated Soils and Soft Rock: Case II. With Seepage Pressure
Ju-Jiang Hung 洪如江 Associate Professor
16. A Study on the Mathematic Model of Effective Rainfall of Upland Crops with Discussions on the Results of Applying the Model to the Southern Part of Taiwan
Yii-Soong Tsao 曹以松 Associate Professor

17. Analytical Kinematic Synthesis of 6-link Plane Mechanism for Function Generation
Deng-Gui Liaw 廖燈圭 Associate Professor
18. Experimental and Theoretical Determination of the Effect of Drilled Holes on Stress Concentration and Distribution around Notches
Dow-Shing Chang 張導雄 Associate Professor
19. Compiler and Assembler for a Simple Computer Language
Chung-Tao Chang 張仲陶 Associate Professor
20. Computer-aided Simplification of Logic Function
Hui-Jung Yu 于惠中 Associate Professor
21. A Study of the Dyeing Waste Treatment
Wan-Fa Yang 楊萬發 Associate Professor

(4) Class C

22. A Study of the Heater for Rice Cooperative Nursery
Hang-sun Chang 張漢聖 Lecturer
23. Feedforward Control of Distributed Parameter System
Shau-Ping Huang 黃孝平 Lecturer
24. Computer-aided Simplification of Logic Functions
Share-Young Lee 李學養 Lecturer
25. Retrieval and Display of Chinese Characters
Chiu-fa Chen 陳秋發 Lecturer
26. Logical Design and Implementation of the High Speed and Low Cost Arithmetic Unit in a Digital Computer
Hing-sum Fung 馮慶深 Lecturer
27. A Nonnumerical Program System Applied to the Chinese Information Processing, Analysis, and Communication
Hoo-Cheng Liu 劉虎城 Lecturer
28. A Simulation of Small Scale Electronic Telephone Switching System
Wei-Long Chen 陳維龍 Lecturer
29. Studies on Analysis of Storm Frequency and Drought Frequency of Watersheds in Taiwan
Ru-yih Wang 王如意 Lecturer
30. Low Cycle Fatigue Testing of Aluminium or Aluminium Alloy
Wu Sun 孫 吳 Lecturer
31. A Study of the Formability of Two Superplastic Alloys
Shun-tai Chang 張順太 Lecturer

32. Studies on the High Silicon Malleable Cast Irons

Chuang-Yeh Yang 楊創業 Lecturer

33. A Study on the Treatment of Dyeing Wastes

Sze-Kung Tseng 曾四恭 Lecturer

2. National Chengchi University

(1) Class C

34. A Study of Production information and Control System

Ing-Feng Lin 林英峯 Lecturer

35. Quality Control over Industrial Products in Taiwan: The Problem and Counter Policy

Fun-kun Tsai 蔡煥琨 Lecturer

3. National Tsinghua University

(1) Special Grant

36. Derivation and Application of Ion Optics Theory for the Design of the Ion Source System in the Ion Energy Analyzed Time-of-flight Mass Spectrometer

Ching-Shen Su 蘇青森 Professor

37. Background Monitoring for Northern Nuclear Power Reactor Site

Pao-shan Weng 翁寶山 Professor

(2) Class A

38. Determine Neutron Slowing Down Density in Hydrogen, Deuterium, Water, Heavy Water, and Polyethylene by the Monte Carlo Method

Peter Pu-Yuan Ma 馬步原 Professor

39. Design of a Mobile Educational Reactor—Study of Instrumentation Part

Der-Ling Tseng 曾德霖 Professor

(3) Class B

40. Measurement of Fast Neutron Spectrum outside THOR Beam Port

Teh-Li Yang 楊德禮 Associate Professor

(4) Class C

41. Optimum Mixed Condition for Polyethylene-Uranium Homogeneous Reactor

Jensen Tsai 蔡健三 Lecturer

42. A Safety Logic System for Nuclear Reactor Control

Bin Yu 虞 斌 Technician

43. Burnup Evaluation of Spent Fuels by Measuring the Reactivities at a Light Water Critical Assembly

Liq-Ji Yuan 袁立基 Lecturer

(5) Class D

44. The Fuel Handling Tool and Storage Container Design of Mobile Educational Reactor

Roun-Chu Chen 陳榮初 Technical Assistant

45. Studies on the Applications of Dinonyl Naphthalene Sulfonic Acid to the Treatment of Liquid Radioactive Wastes by Column Method

Chun-nan Hsu 許俊男 Technical Assistant

46. Measurement of Low-level Tritium in Nature Water

Tieh-Chi Chu 朱鐵吉 Technical Assistant

4. National Chiaotung University

(1) Special Grant

47. Charge Storage and Transfer of CCD

Chun-yen Chang 張俊彥 Professor

(2) Class A

48. The Optimal Excitation of Surface Waves and the Minimization of Transmission Loss Due to Irregular Guiding Surface

Nan-Hung Kuo 郭南宏 Professor

(3) Class D

49. The Optimal Excitation of Surface Wave

Kunchou Lin 林坤洲 Assistant

5. National Chungyang University

(1) Special Grant

50. Correlation of Chemical Structure and Water Resistance of Epoxy Resin

Leo-Wang Chen 陳劉旺 Professor

(2) Class A

51. A Combined Electrical Sounding and Mapping Investigation in Taichung Basin and Its Interpretation

Han-Ying Lee 李漢英 Professor

(3) Class C

52. Frequency Analysis in Gravity Data of Taitung Area

Chieh-Hou Yang 楊潔豪 Lecturer

6. National Taiwan Normal University

(1) Class B

53. The Research of Applying Machine to Coal-getting on Economic and Technic Aspects

Ying-yuan Soo 蘇英源 Associate Professor

(2) Class C

54. Design of the Apparatus for Measuring the Relationship between the Working Temperature and Timing Advance on a Gasoline Engine

Nan-chen Wu 吳南政 Lecturer

7. National Chengkung University

(1) Special Grant

55. A Study on the Sensitivity of Control Systems in Chemical Industry

Yen-Ping Shih 石延平 Professor

56. A General Solution of Structural Mechanics

Bae-jian Lin 林柏堅 Professor

57. Polarography of Uranyl Complex with P-aminothio-phenoxyacetic Acid in Dimethyl Sulfoxide Solution

Tsai-Teh Lai 賴再得 Professor

58. On the Preparation and Electronic Properties of the Glassy Semiconductors: Part III. S, Te, and Se Mixed System Semiconductors

Shean-Joung Chen 陳顯榮 Professor

59. The Trial of Development of Architectural Theory since the Beginning of This Century

Cheng-Tzu Ho 賀陳詞 Professor

(2) Class B

60. The Effect of a Barrier on Wave in Shallow Water

Ching-Ton Kuo 郭金棟 Associate Professor

61. A Study of the Efficiency of Rotary Thermal Diffusion Columns

Ho-Ming Yeh 葉和明 Associate Professor

62. A Study of the Degradation and Thermal Oxidation of Ethylene-vinyl Acetate Copolymer in the Compounded System by pH Method

Jenn-Hwa Wang 王振華 Associate Professor

(3) Class C

63. Optimization of Chemical Reactor with Catalyst Decay

Tse-Chuan Chou 周澤川 Lecturer

64. The Synthesis of Transfer Impedance of Unbalanced RC Electrical Networks

Chi-Wu Mao 毛齊武 Lecturer

65. Application of Vector in Engineering Mechanics

Shen-Ho Tzuang 莊憲和 Lecturer

66. A Study on the Spectrographic Characteristics of the Shale in Miocene and Pliocene Formations in Northern Taiwan

Fu-Su Yen 顏富士 Lecturer

67. Investigation on Techniques Important of Taiwan Textile Dyeing Industries and Its Quality Control

Mei-Jen Chen 陳美仁 Lecturer

68. Management Information Systems for Business

Yung-Kang (Grace) Feng 馮永亢 Lecturer

(4) Class D

69. A Study on the Sensitivity of Control Systems in Chemical Industry

Tuong-Yi Han 韓忠義 Assistant

70. Fabrication of Optoelectronic Memory and Switching Devices Preparation and Properties of GaP-Ge Heterojunctions

Tsung-Yuan Hsu 徐宗元 Assistant

71. The Effect of a Barrier on Water Wave in Shallow Water

Shi-Chuan Lin 林西川 Assistant

8. National Chunghsing University

(1) Special Grant

72. A Study on the Causes of Landslides at Pin-zau-nair Area

Heng Chou 周恒 Professor

73. Separation of Th, La and Its Isotopes by Electromigration Using a Cation Exchange Resin Membrane

Chung Chang 張駿 Professor

(2) Class A

74. Development of a Small Peanut Combine: Second Step. Design and Manufacture of a Threshing Mechanism and Traveling Device, Hydraulic System of a Small Peanut Combine

Hsiao-Tzu Chen 陳孝祖 Professor

(3) Class B

75. A Study on the Tensile Stress of Roots System for Conservation Grass in Taiwan

Tseng-Tang Chang 張曾謙 Associate Professor

76. A Preliminary Study on Hemodynamics

Chih-wu Ho 何智武 Associate Professor

77. A Study on Rainfall Measurement in Mountain Area: II. Causes of Erratic Measurement and the Method for Calculating the Correct Rainfall

Yung-Cheh Chiang 江永哲 Associate Professor

78. Sprouting Experiments on the Vegetative Stakes for the Slope Stabilization in Taiwan

Cheng-ping Yen 顏正平

Associate Professor

(4) Class C

79. An Experiment on the Sprouting of Bamboo Stakes for Slope Stabilization in Taiwan

Ching-Zui Lee 李慶瑞

Lecturer

(5) Class D

80. Electro-trilateration and Computer Calculation

Chung-Yui Ouyang 歐陽鍾裕

Assistant

81. A Study on Rainfall Measurement in Mountain Area—A Newly Designed Storm Rain Gauge under Strong Wind

Lewis Sheng Liang 梁昇

Assistant

9. Provincial College of Marine and Oceanic Technology

(1) Class B

82. A Study on the Hydrodynamic Properties of Midwater Trawl

Yau-Shou Chou 周耀然

Associate Professor

(2) Class D

83. A Study on the Improvement of Trawl Used in Taiwan (Part II)

Chuan-Hung Ho 何灌滋

Assistant

10. Chungcheng College of Science and Engineering

(1) Class A

84. Heat Transfer and Free-convection Effect in a Vertical Annulus

Kuang-Ming Liu 劉光銘

Professor

85. Linear Graph Model of Thermal Radiant Enclosure with Absorbing Medium

Shih-Lu Chang 張式魯

Professor

86. Ship's Transverse Strength Analyzed by Matrix Method and Digital Computer

Cheng-chih Shao 邵承之

Professor

(2) Class B

87. An Experimental Study of the Plugging Effect of Cylindrical Gas Bubbles in Small Glass Tubes with Liquid Flow

Pu-Tse Shaw 邵普澤

Associate Professor

(3) Class C

88. Non-destructive Test for Buckling Load

Rong-Shaw Chu 曲榮紹

Instructor

89. Computer Mapping

Tuan-chih Chen 陳端堉

Instructor

11. Chinese Army Academy

(1) Class C

90. Design and Fabrication of Integrated Thin Film Distributed Networks

Jau-Yien Lee 李肇嚴

Instructor

12. Chinese Air Force Academy

(1) Class C

91. Simplified Flow Graph Technique for the Solution of Multiloop Multisampler Sampled-data System

Hao-chang Wu 吳浩昌

Instructor

13. Fujen University

(1) Class B

92. Queuing Theory and Its Application

Sheng-Ping Lin 林昇平

Associate Professor

14. Tunghai University

(1) Class B

93. Design and Analysis of a Combined Form of Stormer and Con-and-plate Type Viscometer

Shih-Hsueh Chen 陳世學

Associate Professor

94. A Study of Air Flow Related to Architecture

Gene Tang Wang 王錦堂

Associate Professor

15. Tamkang College of Arts and Sciences

(1) Special Grant

95. Synthesis of Derivatives of 3,5-dihydroxyhexanoic Acid

Yun-Shan Lin 林雲山

Professor

(2) Class C

96. Investigation on the Crops Irrigation Planning in Tansui Area

Sheng-Hsiung Lu 呂勝雄

Lecturer

16. Tatung Institute of Technology

(1) Class B

97. A Study on the Decay of a Plane Shock Wave

Ching-Fang Chen 陳慶芳

Associate Professor

17. National Taiwan Junior College of Fine Arts

(1) Class B

98. Albumin Data

Kunti Liu 劉功第

Associate Professor

18. Provincial Taipei Institute of Technology

(1) Class A

99. Mathematical Analysis of Reliability and Its Applications to Manufactured Products

Pe-Lin Chao 趙淳霖

Professor

(2) Class B

100. Investigation of Silencing Characteristics of Mufflers: Silencing Characteristics for Pure Sound and Exhaust Noise

Siu-h-Zon Tsay 蔡旭容

Associate Professor

101. A Study on the Shear Strength of Soils under Compressive Forces and Shear Forces

Wen-Shiun Lee 李文勳

Associate Professor

102. A Study on Beneficiation of High Grade Clay from the Argillaceous Andesite Found in the Yangmingshan Area

Ching-Ting Wang 王金鼎

Associate Professor

(3) Class C

103. Pyrometallurgical Studies of Nickel-bearing Ore from Eastern Taiwan

Siang-Chun Liu 劉祥鈞

Lecturer

104. Computer Programming of Synchronous Sequential Logic Network Synthesis

Yi-Ju Cheng 鄭育儒

Lecturer

105. Stress Analysis of Tunnel Linings

Chin-kun Tsai 蔡金坤

Lecturer

19. Provincial Kaohsiung Institute of Technology

(1) Class A

106. A Study of Reinforced Concrete Cylindrical Shells with Grillage Stiffeners

Yaw-Nan Peng 彭耀楠

Professor

20. Radio Administration, Ministry of Communications

(1) Class B

107. A Study for the SPADE Demand Assignment System of the CGRA's Second Earth Station

Jin-tuu Wang 王金土

Engineer

108. Design of Satellite Communication Earth Station for INTELSAT-IV System
Pi-Hsou Chu 朱筆岫 Station Manager of Taipei Satellite
Communication Earth Station for
INTELSAT-IV System

21. Atomic Energy Council, Executive Yuan

(1) Class C

109. A Fortran IV Code for Fuel Cycle Analysis
Hai-chun Lu 呂海羣 Chief Technician

22. Taiwan Sugar Experiment Station

(1) Class A

110. A Simulation Study on Evaporation in Sugar Manufacture: I. The Effect
of Main Variables on the Heat Transfer Coefficient
Shyang-Ling Sang 桑祥麟 Senior Chemist

(2) Class B

111. Effect of Bagasse Variation from the Storage Cause on the Process of Bagasse
Particle Board-making and a Study on the Process Control
Huai-Ching Huang 黃槐青 Senior Chemical Engineer

(3) Class C

112. Studies on the Liquor Carbonatation and Its Filterability of Taiwan Raw
Sugar
Ying-Chung Cheng 鄭應春 Chemical Engineer
113. A Study of Special Instrument for Determining Soil Moisture Content
Ye-Hsiung Chang 張雅雄 Civil Engineer

(4) Class D

114. Simulation Study on Evaporation in Sugar Manufacture: I. The Effect of
Main Variables on the Heat Transfer Coefficient
Shih-An Lu 呂世安 Chemical Engineer

23. Taiwan Forestry Research Institute

(1) Class A

115. Manufacture of Hardwood Paperboard
Shun-Chung Chao 趙順中 Chief of Division

(2) Class C

116. Studies on the Chemigroundwood Pulping with Taiwan Hardwood
Shaw-Ching Chen 陳紹慶 Senior Specialist

24. Aeronautical Research Laboratory, Aero-industry Development Center

(1) Class A

117. A Bonded Cylinder Subjected to End Impulse
Ti-Chiang Lee 李迪強 Director
118. On the Transverse Vibration of the Fuselage-wing Combination of XT-CH-1A Aircraft during a Symmetrical Pull-up
Chia-Yuan Lee 李家驥 Deputy Director
119. Aspects of the Development of Adhesion Application on the Nature of Attractive Forces and Surface Energy
Abel Chia-long Chu 朱家龍 Deputy Director
120. An Analysis of Parameters Affecting Engine Eductor Performance for a Turboprop Engine
Kung-Heng Chen 陳公衡 Assistant Chief of Dept.

(2) Class B

121. Modified Vortex-lattice Method for Calculating Aerodynamic Coefficients of a Subsonic Airplane
Hsichun M. Hua 華錫鈞 Chief of Department
122. Modification of PL-1B Trainer for Agricultural Applications
Shih-chun Chiang 江詩羣 Chief of Section

(3) Class D

123. Vortex-lattice Method of Calculating the Airload Distribution on Elastic Airplane Wing
Yun-shung Chung 鍾雲祥 Researcher
124. Modification of PL-1B Trainer for Agricultural Applications
So-Lin Yen 閻鎖林 Researcher
125. The Study of Hybrid Rocket
Shing-kuei Wang 汪興貴 Researcher

25. Research Institute for Wines, Taiwan Tobacco & Wine Monopoly Bureau

(1) Class B

126. A Study on Concentrate of Wine by Freeze-concentration Method
Chick-Song Fang 方之松 Chief Chemist
127. Determination of Carboxylic Acids in Wines by Formation of Ferric Hydroxamates
Sheng-Wei Chao 趙生偉 Chief Engineer

(2) Class D

128. Budding Rate of *Saccharomyces* Determined under Electron-microscope during the Fermentation of Champagne Wine as Related to the Content of Ethyl Alcohol and Esters

Ching-chen Hung 洪景辰 Technical Assistant

129. A Study on Pretease and Amylase Produced in Wheat Koji Used for the Fermentation of Shaoshing Wine

Chuan-I Yeh 葉全益 Technical Assistant

130. *Aspergillus Oryzae* AOLD: Utilization of *Aspergillus Oryzae* AOLD to Prepare Rice Koji for the Saccharification of Barley and Manufacture of Whisky

Chuen-Shang Liou 劉春上 Technician

26. Taiwan Institute of Environmental Sanitation

(1) Class A

131. A Study on CO and HC Emission from Motor Vehicles

Vee-Hsin Wei 魏維新 Chief of Section

132. Temperature Effect on the Digestion of Nightsoil Treatment

Mei-Chan Lo 羅美棧 Deputy Director

(2) Class B

133. Studies on the Removal of Pesticides Residue in Water

Yuan-Shao Shen 沈元肇 Chief of Section

(3) Class D

134. A Survey and Study on CO Emission from Gasoline Engine

Zen-tsee Chen 陳健次 Technical Assistant

135. Studies on the Removal of Pesticides Residue in Water

Chung-jen Wang 王重仁 Technical Assistant

27. Chinese Petroleum Corporation

(1) Class A

136. A Study on the Optimized Factors for Improving the Efficiency of Deep Well Completion of Northern Taiwan, the Republic of China

Suyen Chain 靳叔彥 Director of Department

(2) Class C

137. The Flexible Action of Subsea Hydraulic Connector with Relation to the Positioning Problem of Offshore Drilling Vessel

Ron-tuon Kuo 郭龍宗 Drilling Supervisor

138. The Study on the Synthesis of Petroleum Resin

Chung-Teh Wu 吳峻德

Chemical Engineer

28. Chia-Yee Solvent Works, Chinese Petroleum Corporation

(1) Class A

139. A Study on the Determination of Linear Blending Numbers and Linear Blending Volatilities in Blending of Multicomponent Blending Stocks

Foo-Long Chen 陳福隆

Head of Department

(2) Class B

140. The Study on the Catalytic Cracking of C_{10} - C_{14} Normal Paraffins

Yuen-pei Chou 周元培

Project Researcher

141. A Study on Petroleum Microorganisms Which Produce Citric Acid

Chuan-Hsian Lee 李全相

Deputy Director of Department

142. A Study of Growth Stimulators for the New Strain No. 199 in Petro-Protein Fermentation

Ching-song Lee 李清松

Chemical Engineer

(3) Class C

143. Studies on Continuous Fermentation to Produce Single-cell Protein by Candida 25

Chi-sheng Wu 吳奇生

Chemical Engineer

29. Bureau of Commodity Inspection & Quarantine

(1) Class B

144. Polyblends of Poly Vinyl, Chloride & Nitrite Rubber

Shien-Pin Chen 陳顯彬

Engineer

(2) Class C

145. Research for Strategy of Domestic Commodity Inspection

Tze-Chian Liu 劉子鑑

Consultant

30. Union Industrial Research Institute

(1) Special Grant

146. Molecular Weight Distribution of Polyolefine-Products Manufactured in Taiwan

Wei-wen Hsu 許巍文

Chief of Laboratory

147. Effects of Pelletizing Factors on the Structure and the Activity of Carbon Monoxide Conversion Catalysts

Chien-Chou Shih 施鑑洲

Chief of Laboratory

148. Gamma-ray Induced Gaseous Phase Polymerization and Copolymerization of Vinyl Monomers in Bagasse

Ung-Ping Wang 王文濱

Chief of Laboratory

149. Graft Copolymerization of Vinylchloride on Ethylene-vinylacetate Copolymer Modified with Ethylene or Propylene

Wen-Shi Lin 林文喜

Research Chemist

(2) Class A

150. A Study on Ni-Zn Ferrite: II. Effect of Additive

Tao-Yu Cheng 程道腴

Chief of Laboratory

151. IR and NMR Study of the Composition, Tacticity and Sequence Distribution of Poly (vinyl chloride vinyl acetate) Copolymer

Kuei-Shih Chia 賈魁士

Deputy Director

152. Studies on Hydrogenation of Lard Oil

Wan-Chiu Chen 陳萬秋

Chemical Engineer

153. Effect of Defect Type Structure on the Activity of Iron-oxide Catalyst

Chang-Hou Hsu 徐長厚

Chemical Engineer

154. Investigation on the Cold Press Molding of Fiber Reinforced Plastics (FRP)

Ren-Dow Lo 羅仁道

Chemist

(3) Class B

155. Studies on Submerged Culture of Basidiomycetes

Wen-Shion Chang 張文雄

Assistant Chief of Laboratory

31. Metal Industries Research Institute

(1) Class B

156. Development of Manufacturing the Iron Base Machine Parts by the Application of Powder Metallurgy: Manufacture of High Strength and Low Cost Machine Parts

Ting-Kwei Hsu 許廷珪

Research Fellow

(2) Class C

157. A Study on Nickel-cobalt Electroforming Process

Tsow-Chang Fu 傅兆章

Assistant Research Fellow

158. A Study on the Application of Operations Research and System Analysis Techniques to Physical Distribution Problem in a Firm (1)

Hsiung-Fei Kao 高熊飛

Assistant Research Fellow

(3) Class D

159. The Demand and Supply of Special Steel in Taiwan

Chih-Kang Wang 王志剛

Assistant Researcher

32. Telecommunication Laboratories, Ministry of Communications**(1) Class B**

160. On Optimum Transmission of Analog Signal over Digital Channel
Teh-Sheng Chen 陳德勝 Senior Research Engineer

(2) Class C

161. A Study on the Supervisor and FORTRAN Compiler of IBM 1130 Computer System
Jun-Wun Jou 周俊文 Research Engineer
162. Precise Frequency and Time Comparison with VLF Signals
Wan-Kao Hu 胡萬考 Engineer
163. On the Morphology of Geomagnetic Micropulsation at Kau-Yung, Taiwan
Chung-Yauw Yeh 葉忠耀 Engineer

33. Taiwan Area Freeway Construction Bureau**(1) Class B**

164. A Study of the Dynamic Behavior of Highway Bridges under Moving Loads
Chi-Tung Yeh 葉基棟 Senior Engineer
165. Stress Analysis of Deck-type Stiffened Arch Bridges (Considering Axial Deformation of Verticle Members)
Chin-Yau Yang 楊欽耀 Senior Engineer
166. Catiozol Base Stabilization
Ming-Soung Kou 郭明松 Senior Engineer

34. Water Resources Planning Commission**(1) Class A**

167. A Study of Land Subsidence on Shungshan Formation in Taipei Basin
Yingtang Yang 楊應塘 Senior Specialist

(2) Class C

168. A Study on Ground Water Storage in Taipei Basin
Wan-Chuan Yang 楊萬全 Assistant Engineer
169. New Practice in Experimental Hydraulics
Yung-Ching Wu 吳永慶 Associate Engineer
170. New Practice in Experimental Hydraulics
Kei-Lou Chow 周克魯 Assistant Engineer
171. New Practice in Experimental Hydraulics
Jing-Jion Lin 林襟江 Assistant Engineer

35. Taiwan Fisheries Research Institute

(1) Class C

172. A Study on the Frozen Fresh Sea-urchin Roe

Shaw-nan Peng 彭紹楠 Specialist

36. Taiwan Water Conservancy Bureau

(1) Class B

173. A Study on Prediction of Drought Flow in Taiwan

Chi-pin Chang 張啓濱 Senior Engineer

37. Taiwan Shipbuilding Corporation

(1) Class B

174. A Study of Computer-aided Ship Structure Design: I. Longitudinal Strength Calculation and Stress Analysis for Ship Structure

Muh-Biau Chang 張木標 Chief of Department

D. HUMANITIES AND SOCIAL SCIENCES 人文及社會科學

1. Academia Sinica

(1) Special Grants

1. The Burials within the Yin Architectural Foundations in Area B, Hsiao-t'un

Chang-ju Shih 石璋如 Research Fellow

2. Remarks on Works of the Occult Science of Prognostics of Ancient China

P'an Ch'en 陳槃 Research Fellow

3. The Annamese War of the Ch'ien-lung Period

Kwang-Tao Li 李光濤 Research Fellow

(2) Class A

4. Formal Analysis of Japanese Family Structure

Pin-hsiung Liu 劉斌雄 Research Fellow

5. A Comparative Study of the Legend of Yin Kao-tsung's Liang-yin and the Initiation Ritual

Hsi-mei Yang 楊希枚 Research Fellow

6. Textual Criticism of the Ming-shih Kung-chen Shih-piao

Chang-chien Hwang 黃彰健 Research Fellow

7. A Survey on Hunan Dialects—Part of Regional Report (Part I)

Shih-feng Yang 楊時逢 Research Fellow

8. Kuan-tu: A Study of Social Change in a Suburban Community of Taipei
Social Structure and Value System

Chung-I Wen 文崇一

Research Fellow

9. A Study of the Most Resourceful Areas for Grain Taxes during the Late Ming Period

Chi-hua Wu 吳緝華

Professor of National Chengkung University

10. Stocks, Flows, Growth, Portfolio Balance, and the Balance of Payments

Chau-nan Chen 陳昭南

Associate Research Fellow

(3) Class B

11. Yakup Bey and the Moslem Region

Ching-lung Chen 陳慶隆

Associate Research Fellow

12. On the Chinese Characters "SHIH," "CHU," "TSUNG," "PUH," "WU," and "I" in Archaic Forms and Their Relations with Official Titles

Heng-Yu Wang 王恆餘

Associate Research Fellow

13. Notes on the Chuang Chiao's Route of Military Expedition to Yunnan

Hsiu-yun Sang 桑秀雲

Associate Research Fellow

14. Corrections of the Errors in the Explanatory Notes in the Old Manchu Documents of Ch'ing Tai Tzung Reign Re-copied during Ch'ien Lung Reign

Hsueh-chih Li 李學智

Associate Research Fellow

15. The Frontier Military Cultivation of the Han Dynasty and Its Evolution

Tung-kuei Kuan 管東貴

Associate Research Fellow

16. The Rice in the Chinese Folk Belief

Chi-wan Liu 劉枝萬

Associate Research Fellow

17. Economic Growth and Manpower Redistribution in Taiwan

Wen-hui Lai 賴文輝

Associate Research Fellow

18. The Positions and Functions of the Manchus in the Central Government of Ch'ing China

Wen-shih Chen 陳文石

Associate Research Fellow

19. Collected Commentaries on the Kuo-yü, Part II

Yi-jen Chang 張以仁

Associate Research Fellow

(4) Class C

20. The Life of Women during Yin and Chou Dynasties as Seen from Paleography

Shih Heng Chia 賈士衡

Associate Research Fellow

21. Studies of the Bone SSÜ-Spatula in the Anyang Collection

Chung-yu Chen 陳仲玉

Research Technician

22. Kuantu: A Study of Social Change in a Suburban Community of Taipei
Personality and Attitude Change
Hai-Yuan Hchu 瞿海源 Assistant Research Fellow
23. An Analysis of Portfolio Selection of Financial Institutions in Taiwan
Ching-I Ho 何清益 Assistant Research Fellow
24. Government Revenue Forecasting
Cheng-nan Chiang 江振南 Assistant Research Fellow
25. The Demand of International Reserves in Taiwan
Yung-nan Hsieh 謝勇男 Assistant Research Fellow

(5) Class D

26. A Discussion on the Problem of Race of Anyang Skulls from the Excavated Sites
Chun-yu Lin 林純玉 Assistant
27. A Study of the Reconstructed Oracle Bones
Yuan-lin Liu 劉淵臨 Assistant

2. National Taiwan University

(1) Special Grants

28. Educational Investment and Economic Development in Taiwan
Chien-sheng Shih 施健生 Professor
29. The formation and Use of Chinese Images in Selected Modern American Writings
Limin Chu 朱立民 Professor
30. A Study of Economic Prognosis
Kowie Chang 張果爲 Professor
31. The Study of Freedom under Law; Background and Problems of an Idea in the Age of Greek City States
Chan Lien 連戰 Professor
32. A Study in Economic Development Policy
Shi-fu Wang 王師復 Professor
33. The Doctrine of Hsün-tzu and Its Influence on the Scholars of the Han and Sung Dynasties
Chun-jen Tai 戴君仁 Professor
34. Excursion in the Influence of the Buddhist Thought and the Sutra-stories to Chinese Literature
Ching-Nung Tai 臺靜農 Professor

35. The Rise and Fall of Tai-ping-tien-kuo and the Enlargement of the Chinese Local Governor's Power
Tson-Tong Li 李宗侗 Professor
36. An Econometric Analysis of the Effects of Fiscal Policy
Tzong-shian Yu 于宗先 Professor
37. The Feasibility of Regional Cooperation among South-east Asian Countries
Kuo-shu Liang 梁國樹 Professor

(2) Class A

38. The Secessionist Movement of the E. Pakistan
Robert Chu-kua Huang 黃祝貴 Professor
39. The Commercial Policies of Developed Countries with Regard to Imports of Manufactures from the Developing Countries
Yen Hwa 華嚴 Professor
40. The Establishment of New Chinese Legal System and the Influences of Dr. Sun Yat-sen's Thought of Law
Shih-pin Yuan 袁世斌 Professor
41. An Estimate on the Standard of Living of Taiwan's People in 1991
Lung-hwa Kou 寇龍華 Professor
42. Recent Changes in Labor Output in the Production of Major Crops in Taiwan
Chi-lien Huang 黃際鍊 Professor
43. A Study on Fishermen's Share of the Consumer's Dollar Spent for Selected Fishes in the Fish Production Areas in Taiwan
Chu-Yuan Wu 吳恪元 Professor
44. Forest Policy in Taiwan
Yi-Tao Wang 王益滔 Professor
45. The Megalithic Monuments of the East Coast of Taiwan and Southeast Asia
Wen-Hsun Sung 宋文薰 Professor
46. Li Hung-Chang (1895-1901)
Shou-kung Li 李守孔 Professor
47. The Typical T'ang Culture and the Typical Sung Culture
Lo-cheng Fu 傅樂成 Professor
48. The Origin of Ch'ien Ta-Hsin's Scholarship
Yu-sen Ho 何佑森 Professor
49. Introduction to the Manchu Text Version of *Ch'i-chü-chu* of Ch'ing Emperors
Chieh-hsien Chen 陳捷先 Professor

50. Annotations of the Prevalent Phrases of the Buddhist Classics
Hsien-Kung Chu 曲顯功 Professor
51. Han Yü's Family and His Friendship
Lien-Tien Lo 羅聯添 Professor
52. British Attitude toward the Chinese Revolution of 1911
Tseng-tsai Wang 王曾才 Professor
53. The Evolution of East-European New States in the Inter-war Period
Mai-hsien Lee 李邁先 Professor
54. A Historical Research of Logic System
Tien-chung Tseng 曾天從 Professor
55. Ssu Ma Kuang's Historiography and His Statesmanship
Jui-Han Lin 林瑞翰 Professor
56. Historiography in the Early Ching Period
Wei-yun Tu 杜維運 Professor
57. The Chronological Biography of Chang-hwa
Wei-Ch'ing Liao 廖蔚卿 Professor
58. A Study on the Ten Plays of Li Yü (Li Ong)
Ching Chang 張敬 Professor
59. A Survey of Maritime Legislation
John Y. Kwei 桂裕 Professor
60. A Study of Women Criminals
Kan-Mei Chang 張甘妹 Professor
61. The Soviet Union and the Solidarity Conference of Peoples of Asia, Africa, and Latin America
Shou-yao Wei 魏守嶽 Professor
62. A Study on the Price Movements of Major Agricultural Products in Taiwan
Chao-chen Chen 陳超塵 Professor
63. The Actual Account of Dr. Sun Yat-sen—The Important Historical Events in the Founding of the Republic of China (from the Tung Ming Hui to the Kuomingtang)
Kang Lo 羅剛 Professor
64. The Study of Socialization with a view of Chinese Shame-oriented Personality
Chen-lou Chu 朱岑樓 Professor
65. Economic Analysis on Prices of Main Food Commodities in Taiwan
Te-Tsui Chang 張德粹 Professor

66. The Role of Financial Institutions in Taiwan Economic Development

Chia-Fan Lin 林馥蕃 Professor

(3) Class B

67. Money in a Multi-sectoral Model of the Business Cycle

Chen Sun 孫震 Associate Professor

68. An Econometric Analysis of 1964 Household Survey in Taiwan: The Permanent Income Hypothesis Revisited

Yung-san Lee 李庸三 Associate Professor

69. A Study of Psychological Values of the Verbs in the French Language

Wei-Shien Wang 王維賢 Associate Professor

70. Chinese Communists' Attitude toward the United Nations: A Retrospect and Outlook

Fu-shun Lin 林福順 Associate Professor

71. Socio-economic Implications in the Rapid Increase of Part-time Farmers in Taiwan

Ching-Yung Liu 劉清榕 Associate Professor

72. A Study of American System of Judicial Review, Process, and Behavior

Fu Hu 胡佛 Associate Professor

73. Directors and the Board of Directors in the Stock Corporations

Fang-chih Ke 柯芳枝 Associate Professor

74. Rural Migration and Changes of Agricultural Population

Tsong-shien Wu 吳聰賢 Associate Professor

75. A Study of Collingwood's Aesthetic Theory: The Development of Collingwood's Philosophy of Art

Tien-yi Chao 趙天儀 Associate Professor

76. A Study on the Polarized Policy of South Seas during the Early Ming Dynasty

Yit Sun Chong 張奕善 Associate Professor

77. A Study on Agricultural Credit Problems in Taiwan

Yu-kang Mao 毛育剛 Associate Professor

78. A Study of the Political Situation of Vietnam, 1965-67

Diana Fuh-mei Hsiao 蕭富美 Associate Professor

79. A Study on T'ang Poems in Singing

Yi Peng 彭毅 Associate Professor

80. A Study on the Sino-Russo-Korean Relations 1884-1888—The Influence of von Möllendorff's Policy on Korean Diplomacy and the Russo-Korean Secret Treaty
Chi-Rui Sun 孫啓瑞 Associate Professor
81. What is the Notion of Quality?
Chi-wu Hsieh 謝啓武 Associate Professor
82. The Utilization of Motzu
Fu-mei Chou 周富美 Associate Professor
83. The Royal Library of the Sung Dynasty
Tsin-fu Chow 周駿富 Associate Professor
84. The Political Philosophy of Gustav Radbruch
Wen-Shyong Lin 林文雄 Associate Professor
85. A Study on the Political Thoughts and Statecrafts of the Chou Li
Ling-hsu Ho 賀凌虛 Associate Professor
86. Emperor Hsiao-tsung and His Times (1163-1189)
Teh-yi Wang 王德毅 Associate Professor
87. Family Authority Structure, Rearing Practice, and Children's Sense of Political Efficacy
Song-shi Yuan 袁頌西 Associate Professor
88. A Study of Modernization Process in a Formosan Town
Tseng-huei Fann 范珍輝 Associate Professor
89. Research on the Ethical Idea in the Political Thought in Ancient China
Kuang-teh Sun 孫廣德 Associate Professor
90. A Study of Huang T'ing-chien's Literary Criticism
Chien Chang 張健 Associate Professor
91. A Study on the Imprisonment
Shang-sien Ho 何尙先 Associate Professor

(4) Class C

92. Studies on Corded Ware Culture of Taiwan
Shih-chiang Huang 黃士強 Lecturer
93. The Economic Thought and Policy of Northern and Southern Dynasties
Fu-chih Han 韓復智 Lecturer
94. Import Substitution, Export Expansion and the Economic Development of Taiwan, 1952-1970
Cheng-shun Chen 陳正順 Lecturer

95. A Study on Criteria of Truth
Shu-tong Yang 楊樹同 Lecturer
96. The Structure and Sensitivity of Li Shang-yen's Erotic Poetry
Yu Fang 方 瑜 Lecturer
97. A Study to Historiography of Wei-Chin Period, Part II: Shih Shou Hsin Yu and the Personal Biography of Wei-Chin Period
Yau-Tung Lu 遼耀東 Lecturer
98. A Study of Wang Chung's Literary Viewpoint and Method of Criticism
Jung-mao Liang 梁榮茂 Lecturer
99. Modern American Social Problems in Arthur Miller's Major Plays
Chu-yun Chen 陳竺筠 Lecturer
100. A Study on the Liu Ke-Chuang's Poetic Theory
Ch'i-Fang Huang 黃啓方 Lecturer
101. Oliver Cromwell, 1658-1958
Shao-yu Chiang 蔣孝瑀 Lecturer
102. The Ultra-nationalistic Movement in Middle Meiji Japan
Yeng-chyh Lee 李永熾 Lecturer
103. A Study of Juan Ssu Tsung (Juan Chi)
I-Shou Ch'i 齊益壽 Lecturer
104. A Study of Yuan Chung-Lang
Hung Shao 邵 紅 Lecturer
105. An Analysis of the Thought Structure in Part I of the *Chuang Tzu*
Gun-ying Chen 陳鼓應 Lecturer
106. The Life and Thought of Wang Chung
Chin Shih 石 錦 Lecturer
107. Simplicity in Scientific Hypothesis
Cheng-hung Lin 林正弘 Lecturer
108. The Optimum Migration in Taiwan
Hong-chin Tsai 蔡宏進 Lecturer

(5) Class D

109. The Appealing Procedure of Administrative Proceedings in West Germany
De-Fen Ho 賀德芬 Assistant
110. The System of Kung-chü in T'ang Period and Its Influence on the Study of Confucianism
Ming-Shih Kao 高明士 Assistant

111. A Study on Wang Wei's Poetry
Ching-ming Ko 柯慶明 Assistant
112. A Study of R. G. Collingwood's Aesthetic Theory (Part I: Collingwood's Theory of Philosophical Method)
Tien-Cheng Huang 黃天成 Assistant
113. Representative Suits of the Shareholder of a Stock Corporation
Chu Ke 柯 菊 Assistant
114. A Study of the Function of Communication in Human Relations
Te-yü Chen 陳德禹 Assistant
115. The Exaltation of the Worthy in Ancient China, Its Theory and Practice, 722-222 B. C.
Chün-chieh Huang 黃俊傑 Assistant
116. A Comparative Study on the Hsi-tsu-chuan in the *Book of Change*
Uen-fu Kuo 郭文夫 Assistant
117. Socio-economic Implications in the Rapid Increase of Part-time Farmers in Taiwan
Chao-lang Chen 陳昭郎 Assistant

3. National Chengchi University

(1) Special Grants

118. The United Nations and the Problem of Disarmament
Chien-min Chu 朱建民 Professor
119. A Study of Szü-shēng-tēng-tzū
Ming Kao 高 明 Professor
120. Textual Criticism of *Yi Wen Jyi*
Meng-ou Wang 王夢鷗 Professor
121. Mathematical Theory of Montecarlo Method and Its Application
Niao-Pan Cheng 鄭堯梓 Professor
122. A Study of the "Chiao" (Guild) in Taiwan
Maurus Hao Fang 方 豪 Professor
123. An Analysis of the Aptitudes of the Public Junior High School Students in Taiwan
Ping-cheng Hu 胡秉正 Professor
124. A Study on the Political Tutelage of the National Government
Chih-yuen Loh 羅志淵 Professor

125. *The Velocity of Money in Taiwan, 1962-1971*

Cheng-Fu Chang 張震復 Professor

(2) Class A

126. *A Study of the Curriculum Development in American Universities*

Shang-Yung Liang 梁尙勇 Professor

127. *Models and Model-building in Comparative Public Administration*

Joseph Ping-lun Jiang 江炳倫 Professor

128. *A Study of the Supreme Court's Decisions*

Yuan-zu Li 李元簇 Professor

129. *On Fulien Incident*

Hsueh-chia Cheng 鄭學稼 Professor

130. *A Study of "Ch'u-shih-cha" (A Text in Shih-chi, about the History of Ch'u)*

Shou-ping Chang 張壽平 Professor

131. *A Research of Reverencing the Law of the Constitutionalist*

Shou-Liang Chu 朱守亮 Professor

132. *The Relations between Soviet Russia and Asia, Part I*

Shih-hwan Meng 孟十還 Professor

133. *The Construction of a "Chinese Composition Scale for Taipei Public Junior High School Students"*

Shin Shui 水心 Professor

134. *An Analysis on the School System and the Academic Atmosphere of Tang Dynasty*

Yunn Cheng 程運 Professor

135. *A Study on the Nature of Jobs and Their Needs for Adapting the Aptitudes and Interests in Vocational Guidance*

Ching-kai Chang 張慶凱 Professor

136. *A Study of Layout Reform of the Chinese Language Newspapers*

Chia-shih Hsu 徐佳士 Professor

137. *Content Analysis of the TV Programs in Taiwan.*

Thomas Chan Lee 李瞻 Professor

138. *Problems and Possible Solutions of the Science Reporting and Writing in China*

Chin-heng Yen 閻沁恒 Professor

139. *A Study of Supreme Court's Decisions*

Vincent Sze 施文森 Professor

140. A Study of the 1970 Revised Draft of the Communist China's Constitution
Simpson Ching-Po Liu 劉清波 Professor
141. The International Court of Justice
Chih-shih Chen 陳治世 Professor
142. Study and Discussion of the Control of Local Self-government
Chang-chuan Hsiang 項昌權 Professor
143. A Study on the Political System of the Central Government in Chin Dynasty
Shu-fan Yang 楊樹蕃 Professor
144. An Analysis of the Structure and Mobility of the Ruling Class of the Former Han Dynasty
Ho-cheng Jui 芮和蒸 Professor
145. Psychological Approach and Political Analysis
Chun-po Yih 易君博 Professor
146. The Contributions of the Study of Political Culture to the Study of Politics
Lee Jinn Hwa 華力進 Professor
147. Influence of the Psychoanalysis on the Study of Political Behavior
Chi-hua Ma 馬起華 Professor
148. An Analysis of Recruitment of Governors and General Governors in Ching Dynasty
Tsung-Mao Fu 傅宗懋 Professor
149. Optimal International Reserves
Ching-ing Hou Liang 侯金英 Professor
150. A Study on the Problems of Urban Housing
Hugh Min Tung 董修民 Professor
151. Ecology of Administrative Organization and Administrative Behavior
James K. Chiang 姜占魁 Professor
152. A Study on the Public-operated Economic Affairs of the Hsiang, Town and City in Taiwan
Ching-chiu Po 薄慶玖 Professor
153. Regional Economic Integration of the Southeast Asian Countries
Chuan-ting Lu 魯傳鼎 Professor
154. A Word-by-word Identification of the Liu-chiu-kuo as Recorded in the Sui History Being Okinawa instead of Taiwan
Chia-pin Liang 梁嘉彬 Professor

155. A Study of Educational Expenditures of All Levels in China: III. Educational Expenditures in Higher Education

Pao-tien Tsai 蔡保田

Professor

(3) Class B

156. The Chinese Communist Political Experience during Yen-an Period

Po-I Tsao 曹伯一

Associate Professor

157. A Study of "Freedom" in Hegel's Political Philosophy

Chien-Chang Chu 朱堅章

Associate Professor

158. The American President's Influence on Legislation

Jih-ching Yang 楊日青

Associate Professor

159. A Study of Seminar on Agricultural Techniques for African Technicians

Feng Tai Yang 楊逢泰

Associate Professor

160. Educational Background of the Members of the Chinese Agricultural Missions to Africa

Sheng-pao Chin 金神保

Associate Professor

161. Cost-benefit Analysis and Public Investment

Ting-an Chen 陳聽安

Associate Professor

162. Chang Jih Luan's Journalistic Career: His Efforts and Achievements

Kuang-Lin Lai 賴光臨

Associate Professor

163. A Study on Sources of Korean Eastern Sectarian Thought

Sang Geum Kim 金相根

Associate Professor

164. Halliday Macartney and Sino-British Relations, 1875-1905

Wen-hua Cheng 程文華

Associate Professor

165. A Study on the Cumulative Advertising Effects in Taiwan

Christopher Y. Chao 趙 嬰

Associate Professor

166. Notes on the Navigation of Cheng-Ho's Chart: I. From China to Malaya Peninsula

Yu-Hu Hsu 徐玉虎

Associate Professor

167. A Comparative Study of the 4 Great Families of Wu Chün

Chi-min Ho 何啓民

Associate Professor

168. An Analytical Study on Induction

Chung-cheng Ting 丁崇貞

Associate Professor

169. Case Study (A Study of the Supreme Court's Decisions)

Yueh-Chin Hwang 黃越欽

Associate Professor

170. A Comparative Study of Election Supervision and Adjudication in Central and Local Elections in the Republic of China
Yu-Hsien Long 郎裕憲 Associate Professor
171. A Study of Local Administration System during T'ang Dynasty
Shou-nan Wang 王壽南 Associate Professor
172. An Essay on the Soviet Theory of Sources of International Law
Jen-Chieh Wang 王人傑 Associate Professor
173. The Source of Uyghurlar's Words
Yi-tang Liu 劉義棠 Associate Professor
174. The U. S. Federal Personnel Management System
Jun-shu Chang 張潤書 Associate Professor
175. A Study on the Conversion of Agricultural Land to Urban Uses and the Zoning Control to the Urban Fringe of Taipei City
Chih-chao Su 蘇志超 Associate Professor
176. Policy-making and Recommending Procedures of High Ranking Officials in the Court of Ming Dynasty
Chih-an Chang 張治安 Associate Professor

(4) Class C

177. A Study on the Techniques of Individual Guidance
Kuen-huei Liu 劉焜輝 Lecturer
178. A Study on Relationships between Ministry of Personnel and Personnel Administration Bureau
Ping-Song Shieu 許濱松 Lecturer
179. A Study of the Peiping Regime's Anti-U. S. Policy
John Chung Kuan 關中 Lecturer
180. An Outline of Research Comparing Two Schools of Ming Classical Drama Rhythm and Vocabulary
Kae Leu 呂凱 Lecturer
181. A Study on the Effectiveness of English Teaching in Language Laboratory
Bain-ye Ma 馬邊野 Lecturer
182. A Survey on the Opinions about the Subject-matter Selecting and Organizing of Civics and Moral Textbooks for Junior High School
Hsiu-wu Lee 李緒武 Lecturer
183. A Summary of a Comparative Study on Leadership between the Students of Urban Public Junior High Schools and Students of Rural Public Junior High Schools in Taipei District
Chi-tong Yang 楊極東 Lecturer

184. A Study on the Study Habits and Attitudes of Public Junior High School Students in Taipei City

Pang-chieh Lin 林邦傑 Lecturer

185. A Study of the Integrated Project Method of History and Geography in Junior High School

Chi-wen Chou 周繼文 Lecturer

186. A Study on Contemporary Foreign Policy of Japan

Hung-Yuan Chang 張宏遠 Lecturer

187. Türküt Culture and Its Influence on Tang Dynasty

En-Shean Lin 林恩顯 Lecturer

188. Traditional Culture and Modern Education on the Coastal Ami, Taiwan

Chang-rue Yuan 阮昌銳 Lecturer

189. Financing and Accounting Aspects of Long-term Leases

Linda Li-yue Lin 林麗月 Lecturer

190. Application of Management by Objectives in Administrative Organization

Paul Hsian Su 蘇伯顯 Lecturer

(5) Class D

191. A Study on "Motivation Program in Management System"

Jih-Chyh Wu 吳繼熾 Assistant

192. A Survey on the Behavioral Problems of Public Junior High School Students in Taiwan

Wen-ying Huang 黃文瑛 Assistant

193. A Study on the Conversion of Agricultural Land to Urban Uses and the Zoning Control to the Urban Fringe of Taipei

Chen-I Huang 黃正義 Assistant

194. The Impact of Participating in the GATT on the Export of Republic of China

Lung-hsiung Chen 陳龍雄 Assistant

4. National Taiwan Normal University

(1) Special Grants

195. Education for Gifted Junior High School Students

Fu-ming Chia 賈馥茗 Professor

196. The Application of the Sentence Completion Method in Junior High School in Taiwan

Chien-hou Hwang 黃堅厚 Professor

197. Annotation of Bronze Inscription in Chou Dynasty (Volume IV)

Shih-hsien Lu 魯實先 Professor

(2) Class A

198. A Study of Ecological Environment and Education

Ping-lin Fang 方炳林 Professor

199. A Study on Chinese Educational and Cultural Policy and System

Chen-tsou Wu 伍振鰲 Professor

200. The Improvement of the Practices of Junior College

Pan-cheng Sun 孫邦正 Professor

201. A Comparative Study of Library Standards in Different Countries

Chen-ku Wang 王振鵠 Professor

202. A Comparative Study on the Tendency and Practical Effect of the Professional Curriculum on Physical Education in the Republic of China, America, West Germany, and Japan

Wen-Chung Wu 吳文忠 Professor

203. A Research on Basic Electronic Test Equipment: Program Instruction

Cheng-Sien Hsu 許振聲 Professor

204. Syntactical Analysis of *Beowulf* in the Light of the Case Theory

Ching-mai Yang 楊景邁 Professor

205. The Influence of Chinese Political Thought on Japan, Korea and Vietnam

Yun-Ying Chu 朱雲影 Professor

206. Tu Fu's Works Chronologically Arranged

Chen-Tong Lee 李辰冬 Professor

207. A Study on "Wu Geger" and "Heh Soong Sheng" in the Poems of the T'ang Dynasty

Shieh-you Chiou 邱燮友 Professor

208. A Study of the Parts of Speech in *Shih-Ching*

Lian-Chang Tai 戴璉璋 Professor

209. A Study on the Racial Unit of Bali and Ishihi Tribes of the Maternal Families of the Liao Emperors

Ful-ton Lee 李符桐 Professor

210. Geographical Changes of Agricultural Land Use in the Urban Fringe of Taipei

Kuo-Chang Chen 陳國章 Professor

211. A Study of the Rebellion Headed by Huang-Chao
Shu-Tung Li 李樹桐 Professor
212. A Comparative Study of Senior High School System
Kuo-ting Ley 雷國鼎 Professor
213. The Survey on the Opinions of Teaching in *Dr. Sun Yat-sen's Thought*
Jyan Choy 崔載揚 Professor
214. A Comparative Study of the Relationship between Family and School
Ching-Jiang Lin 林清江 Professor
215. A Comparative Study of Technical Education
Nan-Hau Hsu 徐南號 Professor

(3) Class B

216. A Study on the Present System of College Entrance Examination in the Republic of China
Yen-Ming Fang 方炎明 Associate Professor
217. The Study of the Thoughts of Modern Vocational Education and Its Influence in China
Shih-hsing Cheng 鄭世興 Associate Professor
218. A Study of Quotations from *Mao Chuang* in *Ehr Ya*
Pei-Lin Yu 余培林 Associate Professor
219. The Study of Forms of Ching-wen in *Shuo-Wen*
Yien-hui Hsu 許銑輝 Associate Professor
220. The Admiralty of the Late Ch'ing Period (1885-1895)
Chia-Chien Wang 王家儉 Associate Professor
221. A Study of the Japanese Army's Invasion of Taiwan in 1874 A.D.
Chi-tsung Wang 王啓宗 Associate Professor

(4) Class C

222. The Use and Abuse of Teacher's Authority
Oscar Jiaw Ouyang 歐陽教 Lecturer
223. A Study of the Relationship between Behavioral Sciences and Education
Kuei Hsi Chen 陳奎熹 Lecturer
224. Studies on *Book of Change* in the Dynasties of Wei and Tsin, and Southern and Northern Dynasties
Ching-Shiuan Hwang 黃慶萱 Lecturer
225. A Study of the Social Foundation of Educational Planning
Kun-Huei Huang 黃昆輝 Lecturer

226. The Study of the Thought of Lieh-Tzu
Wan-shou Chuang 莊萬壽 Lecturer
227. A Verification of the Remaining Historical Books of the Han Dynasty and the Three Kingdoms
Chi-lang Liao 廖吉郎 Lecturer
228. A Critical Biography of Chou Pang-Yen
Chiao-Pen Lai 賴橋本 Lecturer
229. The Type and Structure of Rural Settlement in She-Tsu Si Area
Fang-Hoei Chen 陳芳惠 Lecturer
230. Resistance to Temptation as Related to the Level of Anxiety
Yau-Huang Huang 黃遙煌 Lecturer
231. A Study of the Theories of Literature of the Ching Dynasty, 1821-1908
Cin-Hsiung You 尤信雄 Lecturer

(5) Class D

232. A Research for Basic Electronic Test Equipment: Program Instruction
Cheween-Shye Shy 施純協 Assistant

5. National Chengkung University

(1) Special Grants

233. A Study on Management of Private Industrial Firms in Taiwan
Jasen Tsai-Shan Su 蘇在山 Professor
234. An Emendation of the Collected Notes on Shih Chih
Chih-mien Shih 施之勉 Professor

(2) Class A

235. Sixty "Airs"
Hsueh-Lin Su 蘇雪林 Professor

(3) Class B

236. A Systematic Study in Organizational Behavior
Ping-pang Kung 龔平邦 Associate Professor
237. The Identity of the Place Names Confused in Chu Tzu
Wei-chieh Yu 于維杰 Associate Professor

(4) Class C

238. A Historical Discussion on Green Manure in Chinese Agriculture
Liang-cho Chen 陳良佐 Lecturer

6. National Chunghsing University

(1) Special Grant

239. A Study on Surety of Official and Judicial Bonds and on Bail
Hsiau-Yuen Ho 何孝元 Professor

(2) Class A

240. Structure and Performance of Pesticide Market in Taiwan
Terry Yu-Hsien Yu 余玉賢 Professor
241. A Study on the Production and Marketing Intention of Vegetable Farmers in the Central Taiwan
Shih-yih Liao 廖士毅 Professor
242. A Preliminary Survey and Analysis of Farmers' Readings on Farm Management and Reference Books in Taiwan
Chin-kun Lin 林金坤 Professor
243. A Study on the Agricultural Productions and the Taxes in South China during the Period of the Taiping Rebellion
Nai-Lung Huang 黃乃隆 Professor
244. An Economic Study of Oranges Marketing in Taiwan
Ching-Yu Lee 李慶餘 Professor
245. A Comparison of Laws against Dereliction of Duty of Government Employees in Both Ancient and Modern Times and Their Trends
Yung-yung Lin 林咏榮 Professor
246. The Problem of Land Expropriation in Taiwan
Chang Lai 來璋 Professor
247. A Study of Rural Land Consolidation in Taiwan
Hung-Yee Lee 李鴻毅 Professor
248. A Study of Social Insurance System in the Republic of China
Kuo-Chun Chen 陳國鈞 Professor
249. A Comparative Study of Chinese and American Probation System
Yin-on Tsai 蔡蔭恩 Professor

(3) Class B

250. A Research on Kuo-Hsiang's "Chuang Tzu Commentary"
Huai Wang 王淮 Associate Professor
251. A Study on the Elective Courses, Pre-service Training with the Relationship to the Employment of Public Middle School Graduates of Taichung City
Chi-Ho Hu 胡啓和 Associate Professor

252. A Study on Patent System and Patent Law
Werner Yu-fung Ning 甯育豐 Associate Professor
253. A Study of Economic Scale in Livestock Production
Carson K. H. Wu 吳功顯 Associate Professor
254. A Study of the Operation of the Cooperative Hog Marketing Program of the Farmers' Association
Mau-Ying Tjiu 邱茂英 Associate Professor
255. A Study on European Social Legislation
Cyril Yih-hsiung Su 蘇義雄 Associate Professor
256. A Study on Agricultural Mechanization in Taiwan
Charles Che-ya Chen 陳澤亞 Associate Professor

(4) Class C

257. A Study on Logical Thoughts of Pre-Chin Thinkers
Kuei-Miau Chen 陳癸淼 Lecturer
258. A Study on the Functions of Wholesale Markets of Vegetables in Taichung
Chiou-Ren Chen 陳秋仁 Lecturer
259. Circumstantial Evidence
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260. A Study on Farmers' Association in Taiwan
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261. A Study of the Integration of the Standard Cost Accounting into a "Pert" System
Chang-Yun Yang 楊長雲 Lecturer
262. A Case Study of the Operation and Management of Changhua and Touliu Farm Irrigation Associations
Yuan-Jine Yang 楊垣進 Lecturer
263. Miscellanies on the *Spring and Autumn Tso-Chuan*
Ting-Hsien Chu 朱廷獻 Lecturer
264. The Disputation between Conservationist and Reformer during the T'ung-Kuang Period, 1864-94
Hsiang-Tuo Tseng 曾祥鐸 Lecturer
265. A Study on the System of Control during the T'ang Dynasty
Yuh-tsai Jen 任育才 Lecturer

7. Taiwan Provincial College of Marine and Oceanic Technology

(1) Class A

266. To Match the Development of Navigation in the Republic of China the Research of Strengthening the Efficiency on Stock Transit and General Shipload in Keelung Port

Cheng-Yee Lee 李政義 Professor

(2) Class D

267. A Study of How to Promote Taiwan Harbour Management

Yeong-jeou Fuh 傅永久 Assistant

8. Chinese Air Force Academy

(1) Class C

268. A Criticism on the Studies and Deeds of Liu Tzing-Hsiu in the Yuan (Mongol) Dynasty

Kuo-Fan Yuan 袁國藩 Instructor

9. Chinese Navy Academy

(1) Class C

269. An Investigation of Guidance Services in Public Junior High School

William Kuan-Hong Chen 陳寬宏 Instructor

10. National Defense Medical Center

(1) Class A

270. Social Origins and Role Perception of Nurses

Chung-Yung Chang 張宗尹 Professor

11. Political Warfare College

(1) Class C

271. The Importance of the Theory of Class Struggle in Communist Ideology and Practice

Erh-lin Yang 楊爾琳 Instructor

12. Fujen University

(1) Class C

272. The Effect of the Development of Education toward Economic Growth in Taiwan

Cheh-sheng Kai 蓋浙生 Lecturer

13. Tunghai University

(1) Class A

273. Sino-Vietnamese Relations during the Ch'ing Dynasty, I. (1661-1795)

Shih-peng Lu 呂士朋 Professor

274. Leadership Pattern in a Rural Community

Ju-Chi Hsi 席汝楫 Professor

275. A Comparative Study of Japan's Trade with the Republic of China, and with Communist China, 1949-1970

I-Kuei Chou 周宜魁 Professor

276. An Assessment on Dr. Hu Shih's Contribution to the Research on Chinese Literature

Cheng-Tsu Yang 楊承祖 Professor

(2) Class C

277. The Intervening Variables in Voting Behavior

Sheng-Hsiung Liao 廖勝雄 Lecturer

14. Soochow University

(1) Class B

278. The Psychopolitical Study in Political Science

Kuo-chang Wang 王國璋 Associate Professor

279. Economic Significance of Sales Tax

Chia-Chu Hou 侯家駒 Associate Professor

(2) Class C

280. The Law of International Carriage by Air

Hong-Je Yang 楊鴻基 Lecturer

15. College of Chinese Culture

(1) Class A

281. A Human Ecological Survey of the Taipei City

Tsu-yueh Cheng 鄭資約 Professor

282. Rhymepolitics of Ancient China

Teng-hao Chen 陳民耿 Professor

283. Marshall Mission

Jung-chao Kuo 郭榮趙 Professor

(2) Class B

284. The Changes Concerning the Chinese Judicial System: A Study on the Legal History of Modern China

Mao-sung Lin 林茂松

Associate Professor

(3) Class C

285. Modernization in Taiwan, 1874-1894

Cheng-Sheng Hsiao 蕭正勝

Lecturer

16. Central Police College

(1) Class B

286. Plans of Improving the Traffic Safety System in the Republic of China

Wei-Hsin Hsu 徐維新

Associate Professor

17. Taiwan Provincial Pingtung Institute of Agriculture

(1) Class C

287. A Research on Production and Marketing of Honey in Taiwan

Cheng-ya Peng 賁正亞

Lecturer

(2) Class D

288. Studies of Liver Functions of Dairy Cattle. II. The Influence of Liver Function on Milk Production and Milk Fat Content

Suen-Chyuan Lin 林孫權

Assistant

18. Taiwan Provincial Hualien Junior College for Teachers

(1) Class C

289. Educational Study of Partially Seeing Children

Shau-yen Chang 張紹焱

Lecturer

19. Taiwan Provincial Junior College of Nursing

(1) Class A

290. The Critical Biography of Ts'ao Chih

Wei-Tsung Liu 劉維崇

Professor

20. Taiwan Provincial Pingtung Junior College for Teachers

(1) Class C

291. A Survey of Occupations for Public Middle School Graduates of Pingtung Hsien

I-Hsiung Tsai 蔡義雄

Lecturer

21. Taiwan Sugar Experiment Station

(1) Class A

292. A Study on Production Cycles of Piglets and Hogs in Taiwan

Ching-tang Wang 王錦堂

Researcher

II. RECIPIENT OF SEMI-ANNUAL RESEARCH GRANTS

半年學術研究補助費

A. NATURAL AND MATHEMATICAL SCIENCES

(1) Special Grants

1. An Investigation into the Foundation of Set Theory (A Proof of the Existence of Suslin Trees)
Shih-Chao Liu 劉世超 Research Fellow (Academia Sinica)
2. Magnitude-frequency Relation of Earthquakes in Taiwan
Ming-Tung Hsu 徐明同 Senior Specialist (Central Weather Bureau)

(2) Class B

3. The Synthesis and Properties of 2H-cyclohepta [b] furan-2-one
Paw-Wang Yang 楊寶旺 Associate Professor (National Taiwan University)
4. Audio-visual Equipment and Architecture Environment
Chin-Shan Weng 翁金山 Associate Professor (National Chengkung University)
5. Elastic Collision: I.
Yeu-Tsang Nee 倪雨蒼 Associate Professor (Tunghai University)
6. Double Compton Scattering with Parallel Outgoing Photons
Pi-Yin Wang 王碧印 Associate Professor (Tamkang College of Arts & Sciences)
7. Charge-transfer Complexes of DDT
Niou-Ching Wu 吳牛清 Associate Professor (Tamkang College of Arts & Sciences)
8. Fluctuations, the Onset of Resistance, among the Metastable States of a Superconducting Sample When $T < T_c$
Henwell Huei-you Chou 周輝佑 Associate Professor (Tamkang College of Arts & Sciences)
9. Sulfur in Amine Solvents
Nancy Wen-Hwa Ma 馬文華 Associate Professor (Tamkang College of Arts & Sciences)
10. On the Unimodal Density Estimation
Tien-wen Chen 陳天文 Associate Professor (Tamkang College of Arts & Sciences)

11. The Use of Solid Electrolytes in Chemical Cells

Daniel Ta-Nien Yuan 阮大年

Associate Professor (Chung Yuan
Christian College of Science and
Engineering)

12. The Photoamidation of Phenol

Rita Shao-lin Shon 熊小玲

Associate Professor (Chung Yuan
Christian College of Science &
Engineering)

(3) Class C

13. Analysis of Gantmakher Kaner Oscillation

Jia-Lin Sun 孫家麟

Lecturer (National Chengkung
University)

B. BIOLOGICAL, AGRICULTURAL AND MEDICAL SCIENCES

(1) Special Grant

14. Effect of Inter-balance of Zinc, Iron, and Manganese on Sugarcane Growth and Nutrient Uptake

Tzo-chuan Juang 莊作權

Senior Chemist (Taiwan Sugar
Experiment Station)

(2) Class A

15. A Study on Response of *Gynura aurantica*, D.C. to Exocostis Virus in Taiwan

Pu Ling 林 樸

Professor (National Taiwan
University)

(3) Class B

16. Distribution of *Toxoplasma gondii* in Infected Mice after the Inoculation of Toxoplasma occysts

Tsu-Huei Fuh 傅祖慧

Associate Professor (National
Taiwan University)

17. Separation of the Major Pigments of a Yellow-fleshed Watermelon

Wai-Kit Nip 聶威杰

Associate Professor (National
Taiwan University)

18. Mechanisms of Sugarcane Resistance to Sugarcane Borers: I. Oviposition and Larval Establishment of *Eucosma schistaceana* on Sugarcane Varieties

Yung-song Pan 潘榮松

Head of Department (Taiwan
Sugar Experiment Station)

19. Effect of Drying on the Availability Index of Soil PK

Char-fen Lin 林家榮

Senior Specialist (Taiwan Sugar
Experiment Station)

(3) Class C

20. An Introduction Study of *Pinus contorta*: A Study on Water Absorption and Germination Rate of Seed of *Pinus contorta* from Different Provenance
Ching-Fang Shih 施慶芳 Lecturer (National Taiwan University)
21. Phytochemical Studies on *Viscum liquidambaricolum* Hay.
Chiung-Sheue Chen 陳瓊雪 Lecturer (National Taiwan University)
22. (1) Rice Varietal Improvement—F₃ Selections
 (2) Irradiation as an Aid in Banana Variety Improvement
Dein-lin Kao 高典林 Lecturer (National Chunghsing University)
23. Investigation for the Heat Transfer of an Inclined Heat Pipe
Wen-Hsiung Huang 黃文雄 Lecturer (Tatung College of Engineering)
24. Effect of Cultivation Practice on the Mechanical Harvestability of Sugarcane in Taiwan
Fu-Ming Lu 盧福明 Research Agricultural Engineer (Taiwan Sugar Exp. Station)

C. ENGINEERING AND APPLIED SCIENCES

(1) Special Grant

25. Studies on Rainfall Characteristics and Its Density Formula in Taipei Region
Yu-Tien Chang 張玉田 Professor (National Chengkung University)

(2) Class B

26. On Wave Propagation in Reacting Mixture of Two Fluids
Ting-Shu Chen 陳廷書 Associate Professor (Tamkang of Arts & Sciences)
27. Propagation of Cylindrical Magnetic Domains
Yeou-ren Lai 賴友仁 Associate Professor (Tamkang College of Arts & Sciences)
28. Effect of Rotation on the Vibrations of Thin Cylindrical Shells with Clamped Ends
Shih-sen Wang 王石生 Section Chief (Aeronautical Research Laboratory, Aero-Industry Development Center)

(3) Class C

29. Numerical Solutions of a Non-linear Theory of the Jet-flapped Wing
Chieh Wu 吳 劼 Section Chief (Aeronautical Research Laboratory, Aero-Industry Development Center)
30. Prediction of Cleavage Planes in BCC Metals on the Basis of Lowest Plastic Work
Adolph Herng-Der Chiou 邱恒德 Lecturer (Tatung College of Engineering)
31. On the Study of Asynchronous Sequential Machines
Kuo-Shen Wei 魏國深 Lecturer (Tatung College of Engineering)
32. Flood Routing in a Natural Stream
Chun-Tsui Wang 王純粹 Instructor (Chinese Military Academy)
33. The Application of Computerized Learning Machines in Water Treatment
Kang-Sheng Kuo 郭港生 Instructor (Chinese Military Academy)
34. Nonlinear Systems Analysis with Analytical Methods
Hung Hsiou 蕭 洪 Instructor (Chinese Military Academy)
35. Numerical Solutions of a Non-linear Theory of the Jet-flapped wing
Cheng-Kuang Lin 林正光 Associate Researcher (Aeronautical Research Laboratory, Aero-Industry Development Center)

D. HUMANITIES AND SOCIAL SCIENCES

(1) Class A

36. *The Palace of Eternal Youth and King Lear: A Comparative Study*
Josephine Huang Hung 黃瓊玖 Professor (National Taiwan University)
37. Diagnostic Studies of Learning Disorders in the Low-achieved Students of Junior High Schools
Wei-Fan Kuo 郭爲藩 Professor (National Taiwan Normal University)
38. The Theoretical Analysis of Population Growth in Taiwan
Weilin Wang 王維林 Professor (National Chunghsing University)

(2) Class B

39. Ch'iu Chin and the Feminist Movement in Late Ch'ing Dynasty of China
Chia-Lin Pao Tao 鮑家麟 Associate Professor (National Taiwan University)
40. A Study on the System of Civil Procedure about Bills of Exchange, Cheques, Promissory Notes in Japanese Law and the Necessity to Institute This System in Chinese Law
Yeong-jia Louch 駱永家 Associate Professor (National Taiwan University)
41. A Study on Children's Discovery of the Conservation of Number, Mass, Weight and Number Volume
Chien-Wen Su 蘇建文 Associate Professor (National Taiwan Normal University)
42. A Constrastive Study of Mandarin Chinese and American English
Shao-ming Tang 唐少銘 Associate Professor (Tamkang College of Arts & Sciences)

(3) Class C

43. A Study on the Disequilibrium Growth Models
Ta-Ho Lin 林大侯 Lecturer (National Taiwanr University)
44. P'eng Yü-lin and the Sino-French War
Winston Wen-shyan Wang 王文賢 Lecturer (National Taiwan University)
45. The Application of Direct Costing in Business Administration
Jack Ching-chung Chang 張金仲 Lecturer (National Chengchi University)

INDEX OF AUTHORS

C

- | | |
|----------------------------|--------------------------|
| Chai, Miaw-Shyong 27 | Chang, Jy-Jye 32 |
| Chain, Suyen 62 | Chang, Kan-Mei 70 |
| Chan, I-Pou 46 | Chang, Kowie 68 |
| Chang, Chao-fu 35 | Chang, Len-Chin 38 |
| Chang, Cheng-fu 75 | Chang, Li-sho 11 |
| Chang, Chen-Long 36 | Chang, Lo-Min 41 |
| Chang, Chien 72 | Chang, Lu-chih 21 |
| Chang, Chi-An 78 | Chang, Muh-Biau 66 |
| Chang, Ching 70 | Chang, Shau-Yen 87 |
| Chang, Ching-Ching 2 | Chang, Shih-chiao 6 |
| Chang, Ching-en 35 | Chang, Shih-Lu 57 |
| Chang, Ching-Kai 75 | Chang, Shin-Chi 44 |
| Chang, Chin-Hua 39 | Chang, Shin-Shinge 27 |
| Chang, Chi-pin 66 | Chang, Shou-ping 75 |
| Chang, Chuan-chiung 18 | Chang, Shu-chen 29 |
| Chang, Chun-Chang 34 | Chang, Shuh-ming 1 |
| Chang, Chun-Hsing 28 | Chang, Shun-Tai 52 |
| Chang, Chung 56 | Chang, Sing 50 |
| Chang, Chung-Sheng 10 | Chang, Stanley, S. L. 14 |
| Chang, Chung-Tao 52 | Chang, Su-Huei 48 |
| Chang, Chung-Yung 85 | Chang, Te-Tsui 70 |
| Chang, Chun-Te 31 | Chang, Tse-chou 26 |
| Chang, Chun-Yen 54 | Chang, Tseng-Tang 56 |
| Chang, Dow-shing 52 | Chang, Wen-Shion 64 |
| Chang, George Cheng-Neng 9 | Chang, Ye-Hsiong 60 |
| Chang, Gu-gang 32 | Chang, Yih-Horng 45 |
| Chang, Hang-Sun 52 | Chang, Yi-jen 67 |
| Chang, Hsing-sun 31 | Chang, Yu-cheng 43 |
| Chang, Hsi-Chi 35 | Chang, Yu-Tien 91 |
| Chang, Hung-Ming 48 | Chang, Yu-Tsuan 39 |
| Chang, Hung-Yuan 79 | Chao, Christopher Y. 77 |
| Chang, Jack Ching-Chung 93 | Chao, Pe-Lin 59 |
| Chang, Jin-Yuh 7 | Chao, Sheng-Wei 61 |
| Chang, Jong-min 19 | Chao, Shun-Chung 60 |
| Chang, Jui-Chin 5 | Chao, Tien-Yi 71 |
| Chang, Jun-shu 78 | Chen, Chao-chen 70 |
| | Chen, Chao-Lang 74 |
| | Chen, Charles Che-ya 84 |

- Chen, Chau-Fong 25
Chen, Chau-Nan 67
Chen, Cheng-Han 6
Chen, Cheng-shun 72
Chen, Cheng-Tung 30
Chen, Chi-chang 18
Chen, Chieh-Fu 33
Chen, Chieh-hsien 69
Chen, Chih-Shih 76
Chen, Chi-Hsien 15
Chen, Chi-ming 35
Chen, Ching-Chung 45
Chen, Ching-Fang 58
Chen, Ching-lung 67
Chen, Ching-Nien 4
Chen, Ching-Yih 29
Chen, Chiou-Ren 84
Chen, Chiu-Fa 52
Chen, Chiung-Sheue 91
Chen, Chuan-Ching 22
Chen, Chung-Hui 44
Chen, Chung-Yu 67
Chen, Chun-Hsiung 51
Chen, Chu-Te 38
Chen, Chu-Yun 73
Chen, Dah-Wu 29
Chen, Dong-Sheng 26
Chen, Fang-Hoei 82
Chen, Foo-Long 63
Chen, Fu-Lai 13
Chen, Guu-Ying 73
Chen, Hsiao-tzu 56
Chen, Hsi-Yao 21
Chen, Hsu 4
Chen, I-Li 22
Chen, Jau-Jing 9
Chen, Jen-Hun
Chen, Juisan 20
Chen, Jui-Shiang 15
Chen, Joung-Nen 32
Chen, Kuei-Hsi 81
Chen, Kuei-miao (miao) 84
Chen, Kung-Heng 61
Chen, Kung-Pei 17
Chen, Kuo-Chang 80
Chen, Kuo-Chun 83
Chen, Kuo-Tung 34
Chen, Lain-Sheng 48
Chen, Leo Wang 54
Chen, Liang-Cho 82
Chen, Li-Chih 20
Chen, Lung-Che 49
Chen, Lung-Hsiung 79
Chen, Mao-Chiang 47
Chen, Mei-chen 56
Chen, Moh-jih 29
Chen, Mo-Yuan 43
Chen, Pan 66
Chen, Pei-Yuan 2
Chen, Ping-Yao 4
Chen, Ping-Yuan 16
Chen, Roun-Chu 54
Chen, Shaw-Ching 60
Chen, Shaw-dong 51
Chen, Shean-joung 55
Chen, Sheng-Yen 43
Chen, Shien-pin 63
Chen, Shih-Hsueh 58
Chen, Shou-nan 6
Chen, Shou-Shih 46
Chen, Shu-Hua 31
Chen, Shy-Yu 37
Chen, Sung-Fan 42
Chen, Teh-Sheng 65
Chen, Teng-Hao 86
Chen, Teng-Yuch 3
Chen, Te-Yu 74
Chen, Tien-Wen 89
Chen, Ting-An 77
Chen, Ting-Shu 91
Chen, Tou 21
Chen, Tsai-Feng 4
Chen, Tsen-tuo 17
Chen, Tsui-Hsia 12

- Chen, Tuan-chih 58
 Chen, Tunli 8
 Chen, Tzong-shong 43
 Chen, Wan-Chiu 64
 Chen, Wei-Long 52
 Chen, Wei-Yeu 8
 Chen, Wen-Chuan 42
 Chen, Wen-Pin 26
 Chen, Wen-Pin 38
 Chen, Wen-Shih 67
 Chen, Wen-Yen 43
 Chen, William Kuan-Hong 85
 Chen, Wu-shong 14
 Chen, Yih-Hsiung 7
 Chen, Ying-Ren 44
 Chen, Yuh-Lin 17
 Chen, Yulei 8
 Chen, Yung-Hwa 28
 Chen, Yu-shin 19
 Chen, Zen-Tsee 62
 Chen, Zuei-Ching 22
 Chen, Zuei-Yuan 34
 Cheng, Andrew Teh-An 8
 Cheng, Ching-mu 35
 Cheng, Fayu 18
 Cheng, Hong-Tsai 11
 Cheng, Hsueh-Chia 75
 Cheng, Jeng-Fang 10
 Cheng, Niao-pan 74
 Cheng, Pang-Chie 12
 Cheng, Shih-Hsing 81
 Cheng, Shui-Ho 45
 Cheng, Tao-Yu 64
 Cheng, Tsu-Yueh 86
 Cheng, Wen-Hua 77
 Cheng, Wen-Tse 15
 Cheng, Yi-ju 59
 Cheng, Ying-Chung 60
 Cheng, Yung-Hsiung 50
 Cheng, Yunn 75
 Chern, Lien-Jui 10
 Cherng, Feng-Pyng 15
 Chi, I-Shou 73
 Chi, Ke-hsun 12
 Chia, Fu-Ming 79
 Chia, Kuei-Shih 64
 Chia, Shih-Heng 67
 Chiang, Cheng-Nan 68
 Chiang, Chia-Hua 23
 Chiang, Chieng-Hsun 33
 Chiang, Ching-Tsun 47
 Chiang, Hsing-Chun 14
 Chiang, James K. 76
 Chiang, Shao-Yu 73
 Chiang, Shih-Chun 61
 Chiang, Tsing-Hua 43
 Chiang, Wen-Tsuo 24
 Chiang, Yung-Cheh 56
 Chiang, Yung-Mien 2
 Chiao, Kuo-Mou 24
 Chien, Lai-Chen 7
 Chien, Wen-Tsuen 25
 Chin, Sheng-Pao 77
 Chin, Tsu-Nien 51
 Chin, Way-Tung 43
 Chiou, A-Chang 40
 Chiou, Adolph Herng-Der 92
 Chiou, Chien-Jen 31
 Chiou, Jwo-Farn 27
 Chiou, Shieh-You 80
 Chiu, Hua-Teng 14
 Chiu, Jui-Kuang 19
 Chiu, Ming-Der 44
 Chiu, Robert Hung-Chih 34
 Chiu, Shiau-Yen 22
 Chong, Yit-Sun 71
 Chou, Chin-Wei 47
 Chou, Chi-Wen 79
 Chou, Fu-Mei 72
 Chou, Heng 56
 Chou, Henwell Huei-You 89
 Chou, I-Kuei 86
 Chou, Ken-Chuan 2
 Chou, Muh-Chuen 3

Chou, Ning-Yuan 38
 Chou, Teh-Chang 46
 Chou, Tse-Chuan 55
 Chou, Yao-Shou 57
 Chou, Yuen-Pei 63
 Chow, Cheng 19
 Chow, Kei-Lou 65
 Chow, Tsai-Ye 47
 Chow, Tsin-Fu 72
 Choy, Jyan 81
 Chu, Abel Chia-Long 61
 Chu, Chen-Lou 70
 Chu, Chien-Chang 77
 Chu, Chien-Min 74
 Chu, Chien-Ts 27
 Chu, Chi-Lu 41
 Chu, Ching-Kuo 49
 Chu, Hsien-Kuang 70
 Chu, Hwi-min 45
 Chu, Kang-Chu 32
 Chu, Ko-Kung 16
 Chu, Limin 68
 Chu, Pi-Hsou 60
 Chu, Rong-Shaw 57
 Chu, Shou-Liang 75
 Chu, Tieh-Chi 54
 Chu, Ting-Hsien 84
 Chu, Tsu-You 2
 Chu, Yih 36
 Chu, Yun-Ying 80
 Chuang, Chong-Jen 23
 Chuang, Sing-Tai 26
 Chuang, Wan-Shou 82
 Chuang, Yun-Tang 11
 Chung, Chu-Hung 26
 Chung, Dar-Shung 26
 Chung, Huo-Sheng 15
 Chung, I-Heng 33
 Chung, Seng-Tien 24
 Chung, Yun-Shung 61
 Chyou, Ming-sen 38

D

Duh, Gau-Min 33

F

Fan, Kuang-Yu 48
 Fang, Chick-Song 61
 Fang, Hsin-Cheng 44
 Fang, Hwai-Sze 18
 Fang, Ping-Lin 80
 Fang, Marus Hao 74
 Fang, Tzuu-Tar 23
 Fang, Yen-Ming 81
 Fang, Yu 73
 Fang, Yung-Kuen 31
 Fann, Tseng-Huei 72
 Feng, Yung-Kang (Grace) 56
 Fu, Lo-Cheng 69
 Fu, Tsow-Chang 64
 Fu, Tsung-Mao 76
 Fuh, Tsu-Huei 90
 Fuh, Yeong-Jeou 85
 Fung, Hing-Sum 52

G

Gan, Tian-Guey 84
 Guo, Bang-Kang 33

H

Han, Fu-Chih 72
 Han, Tuong-Yi 56
 Han, You-Hsin 30
 Hchu, Hai-Yuan 68
 Ho, Chao-Chien 23
 Ho, Cheng-Tzu 55
 Ho, Chi-Min 77
 Ho, Ching-I 68
 Ho, Chi-wu 56
 Ho, Chuan-Hung 57
 Ho, Chung-Ru 5
 Ho, Chun-Sun 11
 Ho, Chu-Po 30

- Ho, De-Fen 73
Ho, Feng-Chi 42
Ho, Hon-Kai 20
Ho, Hsiao-Yuen 83
Ho, Huoo-Shuh 45
Ho, Jer-Yian 27
Ho, Ling-Hsu 72
Ho, Maiw-Ling 45
Ho, Shang-Sien 72
Ho, Sheng-Ping 3
Ho, Shen-Wu 28
Ho, Su-Luning 33
Ho, Yu-Sen 69
Hong, Lee-Chiang 13
Hong, Yu-Ching 19
Horng, Shwu-Ching 26
Hou, Chia-Chu 86
Hou, Chin-Ri 24
Hou, Ping-Kang 25
Hsi, Ju-Chi 86
Hsia, Fuu-Yeu 38
Hsiang, Chang-Chuan 76
Hsiang, Fu-Cheng
Hsiao, Cheng-sheng 87
Hsiao, Diana Fuh-Mei 71
Hsieh, Chi-Wu 72
Hsieh, Po-Tung 20
Hsieh, Sang-ian 44
Hsieh, Sen-Tu 42
Hsieh, Shinn-Liang 13
Hsieh, Tang-Chou 42
Hsieh, Tsun-Hsiung 4
Hsieh, Wan-Chen 8
Hsieh, Yung-Nan 68
Hsiou, Hung 92
Hsiung, Shaw-Jen 84
Hsu, A-Li 47
Hsu, A-Li 13
Hsu, Chang 7
Hsu, Chang-Hou 64
Hsu, Chen-Ching 21
Hsu, Chen-Fa 50
Hsu, Cheng-Sien 80
Hsu, Chia-Shih 75
Hsu, Chih-Yun 32
Hsu, Chin-Huai 12
Hsu, Chin-sheng 44
Hsu, Chun-nan 54
Hsu, Tsung-yao 10
Hsu, Err-Lieh 28
Hsu, HOUNG-Kao 31
Hsu, Kuang-Kann 21
Hsu, Kuang-Yung 21
Hsu, Ming-Tung 89
Hsu, Nan-Hau 81
Hsu, Pao-Chin 12
Hsu, Pin-Kuen 43
Hsu, Sen-Hsiung 10
Hsu, Shih-Ta 50
Hsu, Sze-Jih 19
Hsu, Teng-Tsao 47
Hsu, Ting-Kwei 64
Hsu, Tsung-Yuan 56
Hsu, Wei-Hsin 87
Hsu, Wei-Wen 63
Hsu, Yi-Chuan 3
Hsu, Yi-ve 48
Hsu, Yien-Hui 81
Hsu, Yuh-Piao 21
Hsu, Yu-Hu 77
Hsu, Zwei-How 11
Hsueh, Chi-Hsuen 9
Hu, Chi-Ho 83
Hu, Chin-Cheng 14
Hu, Fu 71
Hu, Ping-Cheng 74
Hu, San-Chi 4
Hu, Sing-Hwa 44
Hu, Ta-Wei 41
Hu, Wan-Kao 65
Hua, Hsichun Mike 61
Huang, Chen-I 79
Huang, Chi-fang 73
Huang, Chi-Lien 69

Huang, Chien-Tao 47
 Huang, Chun-Chieh 74
 Huang, Chun-Kiang 2
 Huang, Giy-Shoung 15
 Huang, Han 17
 Huang, Hive-Ho 26
 Huang, Hsu-Cheng 33
 Huang, Huai-Ching 60
 Huang, Hu-Yen 45
 Huang, Jiin-Yuan 38
 Huang, Kun-Huei 81
 Huang, Kun-Kuang 2
 Huang, Kuo-Ming 37
 Huang, Min-Chang 30
 Huang, Nai-Lung 83
 Huang, Po-Chao 19
 Huang, Robert Chu-Kua 69
 Huang, Shau-Ping 52
 Huang, Shih-Chiang 72
 Huang, Tien-Cheng 74
 Huang, Ting-Fei 18
 Huang, Tsung-Lin 10
 Huang, Tunyow 14
 Huang, Wei-Hsieng 15
 Huang, Wen-Hsiung 91
 Huang, Wen-Lian 40
 Huang, Wen-Ying 79
 Huang, Yau-Huang 82
 Huang, Yung-Chuan 20
 Hung, Ah-Tien 44
 Hung, Ching-Chen 62
 Hung, Ju-Jiang 51
 Hung, Jyi-Cherng 9
 Hung, Liang-Pin 41
 Hung, Tsu-Chang 1
 Hung-Huang, Josephine 92
 Hwa, Yen 69
 Hwa, Lee-Jinn 76
 Hwang, Cqang-Chien 66
 Hwang, Cheng-Hsien 51
 Hwang, Chien-Hou 79
 Hwang, Ching-Shiuan 81

Hwang, I-Kwei 37
 Hwang, Jenn-Lin 1
 Hwang, Kun-Kan 42
 Hwang, Leou-Nan 9
 Hwang, Pau-Tsung 38
 Hwang, Sang-Gen 42
 Hwang, Yang-Ren 31
 Hwang, Yueh-Chin 77
 Hwang, Yun-Jui 41

J

Jen, I-An 42
 Jen, Yu-Tsai 84
 Jiang, Joseph P. L. 75
 Jou, Jun-Wun 65
 Juan, Veichow C. 1
 Juang, Tzo-Chuan 90
 Jui, Ho-Cheng 76

K

Kai, Cheh-Sheng 85
 Kang, Yeou-Der 18
 Kang, Yu-Chin 2
 Kao, Ching 23
 Kao, Ching-Huei 26
 Kao, Dein-Lin 91
 Kao, Hsiung-Fei 64
 Kao, Ming 74
 Kao, Ming-Shih 73
 Ke, Chin-Nan 4
 Ke, Chu 74
 Ke, Fang-Chih 71
 Keng, Wen-Pu 12
 Kim, Sang-Guen 77
 Ko, Ching-Ming 74
 Ko, Yung-Ho 22
 Koh, Paul Ting-Jiun 38
 Kong, Loh 37
 Kou, Lung-Hwa 69
 Kou, Ming-Soung 65

Ku, Yun-Chuan 42
 Kuan, John Chung 78
 Kuan, Tung-Kuei 67
 Kung, Cheng-Min 25
 Kung, Fan-Hsi 23
 Kung, Ku-Sheng 30
 Kung, Ping-Pang 82
 Kuo, Ching-Ton 55
 Kuo, Hung-Liang 9
 Kuo, Jung-Chao 86
 Kuo, Kang-Sheng 92
 Kuo, Kuo-En 50
 Kuo, Mong-Shang 29
 Kuo, Nan-Hung 54
 Kuo, Pao-Chang 20
 Kuo, Ron-Tuon 62
 Kuo, Uen-Fu 74
 Kuo, Wei-Fan 92
 Kwan, Hsueh-Wan 23
 Kwei, John Y. 70

L

Lai, Chang 83
 Lai, Chiao-Pen 82
 Lai, Ching-Liang 11
 Lai, Ching-Yuan 40
 Lai, Hong-Huei 27
 Lai, Kuang-Lin 77
 Lai, Kwan-Long 21
 Lai, Tsai-Teh 55
 Lai, Wen-Hui 67
 Lai, Yeou-Ren
 Lan, Tiao 41
 Lee, Chah-Ching 47
 Lee, Cheng 9
 Lee, Cheng-Hsiung 46
 Lee, Cheng-Yee 85
 Lee, Chen-Tong 80
 Lee, Chen-Yuan 17
 Lee, Chia-Yuan 61
 Lee, Ching-Song 63

Lee, Ching-Yu 83
 Lee, Ching-Zui 57
 Lee, Chin-Yen 27
 Lee, Chuan-Hsian 63
 Lee, Chu-Hsien
 Lee, Chun-Jean 21
 Lee, Fu-Li 19
 Lee, Fulton 80
 Lee, Han-Ying 54
 Lee, Hsiu-Wu 78
 Lee, Hung-Chao 36
 Lee, Hung-Tu 34
 Lee, Hung-Yee 83
 Lee, Jau-Yien 58
 Lee, Kin-Chun 9
 Lee, Kong-Ko 3
 Lee, Kowk-Chung 27
 Lee, Lu-Ping 2
 Lee, Mai-Hsien 70
 Lee, Ming-Jing 24
 Lee, Pang-Kan 46
 Lee, Share-Young 52
 Lee, Sheng-Teh 48
 Lee, Shiann-Yee 29
 Lee, Shiuh-Sheng 33
 Lee, Shu-Chi 13
 Lee, Shu-Hsin 36
 Lee, Sung 37
 Lee, Teng-Yuan 20
 Lee, Thai-Sung 44
 Lee, Thomas C. 75
 Lee, Ti-Chang 61
 Lee, Ting-Chien 17
 Lee, Tsaan-Jan 13
 Lee, Tse-Shun 40
 Lee, Tsong-Chia 40
 Lee, Wen-Shiun 59
 Lee, Yung-Chi 19
 Lee, Yung-Chyh 73
 Lee, Yung-San 71
 Lee-Wang, Chih-Ming 2
 Leu, Chiang-Tyaw 38

- Leu, Kae 78
Leu, Lii-Sin 37
Leung, Ku-Wing 40
Ley, Kuo-Ting 81
Li, Hsueh-Chih 67
Li, Kwang-Tao 66
Li, Richard C. 32
Li, Shou-Kung 69
Li, Shu-Tung 81
Li, Tson-Tong 69
Li, Yuan-Zu 75
Liang, Chia-Ping 76
Liang, Jung-Mao 73
Liang, Kuo-Shu 69
Liang, Lewis Sheng 57
Liang, Shang-Yung 75
Liang-Hou, Ching-Ing 76
Liao, Chi-Lang 82
Liao, Jih-Ching 23
Liao, Kun-Fu 30
Liao, Sheng-Hsiung 86
Liao, Shih-Yih 83
Liao, Shyue-Yeou 38
Liao, Wei-Ching 70
Liaw, Deng-Gui 52
Liaw, Yu-Jen 13
Lien, Chan 68
Lin, An-Chung 23
Lin, Bae-jian 55
Lin, Chao-Chi 1
Lin, Char-Fen 90
Lin, Cheng-Hung 73
Lin, Cheng-Kuang 92
Lin, Chen-Shan 28
Lin, Chia-Fan 71
Lin, Chi-Hsiung 6
Lin, Chin-Kun 83
Lin, Ching-Jiang 81
Lin, Chun-Kuang 49
Lin, Chung-Mao 35
Lin, Chun-Yu 68
Lin, En-Shean 79
Lin, Fu-Shun 71
Lin, Fu-Hsiung 44
Lin, Hong-Chi 21
Lin, Huai-San 21
Lin, Hsiou-Er Shelley 3
Lin, I-Hsi 6
Lin, I-Hsiung 5
Lin, Ing-Feng 53
Lin, Jing-Jion 65
Lin, Jui-Han 70
Lin, Jui-Shan 12
Lin, Jung-Yaw 22
Lin, Kunchou 54
Lin, Kuo-Huang 19
Lin, Linda Li-Yueh 79
Lin, Mao-Song 87
Lin, Ming-Fang 32
Lin, Ming-Hua 40
Lin, Ming-Sen 12
Lin, Pang-Chieh 79
Lin, Peter Chu-San 22
Lin, Pi-Yao 8
Lin, Sheng-Ping 58
Lin, Shen-Yu 48
Lin, Shi-Chuan 56
Lin, Shou-Cheng 30
Lin, Song-Yun 3
Lin, Suei-Fa 39
Lin, Suen-Chyuan 87
Lin, Ta-Ho 93
Lin, Tong-Ming 22
Lin, Tsai-Chun 46
Lin, Tsai-Wang 16
Lin, Tse-Ming 16
Lin, Tsu-Hsin 49
Lin, Wan-Chun 49
Lin, Wen-Hsing 34
Lin, Wen, Shi 64
Lin Wen-Shyong 72
Lin, Yi-Chang 25
Lin, Yi-Yaw 31
Lin, Yong-Pei 46

Lin, Yung-Yung 83
 Lin, Yun-Shan 58
 Ling, Keh-Chang 43
 Ling, Pu 90
 Liou, Chuen-Shang 62
 Liu, Cheng-I 36
 Liu, Cheng-I 39
 Liu, Cheng-Ming 32
 Liu, Cheng-Ping 35
 Liu, Chien-Lung 43
 Liu, Ching-Yung 71
 Liu, Chi-Wan 67
 Liu, Hoo-Cheng 52
 Liu, Hsin-Hsi 14
 Liu, Hung-Hsi 5
 Liu, Hwa-Mau 23
 Liu, In-Mao 17
 Liu, Kuang-Ming 57
 Liu, Kuen-Huei 78
 Liu, Kunti 59
 Liu, Li-Yuan 7
 Liu, Nai-Cheng 27
 Liu, Peh-Wen 20
 Liu, Pin-Hsiung 66
 Liu, Shen-Hsiao 30
 Liu, S. H. 9
 Liu, Shih-Chao 89
 Liu, Shih-Chih 35
 Liu, Siang-Chun 59
 Liu, Simpson Ching-Po 76
 Liu, Tsing 41
 Liu, Tze-Chian 63
 Liu, Wei-Tsung 87
 Liu, Yeh-Ching 29
 Liu, Yen-Huai 5
 Liu, Yii-Shung 46
 Liu, Yi-Tang 78
 Liu, Yong-Piao 18
 Liu, Yuan-Lin 68
 Lo, Chuan-Cheng 37
 Lo, Huann-Jih 3
 Lo, Jien-Chiu 15

Lo, Kang 70
 Lo, Lien-Tien 70
 Lo, Mei-Chan 62
 Lo, Ren-Dow 64
 Lo, Shih-Liang 49
 Loh, Chih-Yuen 74
 Loh, Zu-Chen 13
 Long, Yu-Hsien 78
 Louch, Yeong-Jia 93
 Lu, Chin-Ming 41
 Lu, Chuan-Ting 76
 Lu, Fu-Ming 91
 Lu, Fu-Yuan 35
 Lu, Hai-Chun 60
 Lu, Mei-Fang 5
 Lu, Sheng-Hsiung 58
 Lu, Sheng-Teh 34
 Lu, Shih-An 60
 Lu, Shih-Chong 12
 Lu, Shih-Hsien 80
 Lu, Shih-Peng 86
 Lu, Wei-Ming 51
 Lu, Ying-Chuan 29
 Lu, Yen-Chi 51
 Lu, Yung-Siu
 Lu, Yau-Tung 73

M

Ma, Bain-Ye 78
 Ma, Chi-Hua 76
 Ma, Nancy Wen-Hwa 89
 Ma, Peter Pu-Yuan 53
 Ma, Robert Chueng-Shyang 20
 Ma, Ting-Ying H. 1
 Ma, Tze-Ping 41
 Ma, Yung-Lung 51
 Mao, Chi-Wu 55
 Mao, Shou-Shien 32
 Mao, Yu-Kang 71
 Meng, Shih-Hwan 75
 Miu, Tuan-Sheng 28

N

- Nee, Yeu-Tsang 89
 Ning, Werner Yu-Fung 84
 Nip, Wai-Kit 90

O

- Ou, Chern-Hsiung 31
 Ou, Shau-Mei 28
 Ouyang, Chao-Ho 20
 Ouyang, Chung-Yui 57
 Ouyang, Oscar Jiaw 81

P

- Pai, Shou-Hsiung 33
 Pai, Chia-Sheng 42
 Pan, Foo 32
 Pan, I-Hung 23
 Pan, Kee-Chuan 9
 Pan, Yuh-Sheng 14
 Pan, Yung-Song 90
 Pao, Hsiao-Li 8
 Pao, Tun-Po 37
 Peng, Cheng-Ya 87
 Peng, Ming-Tsung 19
 Peng, Shaw-Nan 66
 Peng, Sheng-Yang 37
 Peng, Wang-Chien 6
 Peng, Wu Kang 27
 Peng Yaw-Nan 59
 Peng, Ying-I 28
 Peng, Yi 71
 Pi, Wan-Pang 24
 Po, Ching-Chiu 76

S

- Sang, Hsiu-Yun 67
 Sang, Shyang-Ling 60
 Shao, Cheng-Chi 57
 Shao, Hung 73
 Shaw, Pu-Tse 57
 Shen, I-Sun 37

- Shen, Ming-Lai 24
 Shen, Tzay-Fa 45
 Shen, Yuan-Shao 62
 Sheng, Ye-Shung 47
 Shiau, Yu-Yuan 26
 Shieh, Wang-Chuan 30
 Shien, Yong-Shau 22
 Shieu, Ping-Song 78
 Shih, Chang-Ju 66
 Shih, Chien-Chou 63
 Shih, Chien-Sheng 68
 Shih, Chih-Mien 82
 Shih, Chin 73
 Shih, Ching-Fang 91
 Shih, Chu-Kun 10
 Shih, Chung-Hsung 31
 Shih, Ho 29
 Shih, Jen-Shiu 45
 Shih, Tsai-Tien 5
 Shih, Yaw-Tang 33
 Shih, Yen-Ping 55
 Shih, Yu-Shi 39
 Shiou, Song-Jui 36
 Shiue, Jung-Jiang 37
 Shon, Rita Shao-Lin 90
 Shui, Shin 75
 Shy, Cheween-Shye 82
 Soo, Ying-Yuan 54
 Sou, Phouti 10
 Su, Chen-Jyi 9
 Su, Chia-Eng 15
 Su, Chien-Wen 93
 Su, Chih-Chao 78
 Su, Ching-Shen 53
 Su, Cyril Yih-Hsung 84
 Su, Der-Reunn 2
 Su, Fu-Chen 15
 Su, Horng-Jye 26
 Su, Hsin 41
 Su, Hsueh-Lin 82
 Su, Jason Tsai-Shan 82
 Su, Jei-Fu 46

Su, Jong-Ching 16
 Su, Lie-Hwa 40
 Su, Lily L. 7
 Su, Paul Hsian 79
 Su, Tsong-Hong 39
 Su, Wu-Ching 48
 Su, Yih-Hsyong 84, 7
 Su, Yu-Ming 47
 Su, Yuan-Chi 18
 Su, Yung-Ho 28
 Sun, Chen 71
 Sun, Chi-Rui 72
 Sun, Jia-Lin 90
 Sun, Kuang-Teh 72
 Sun, Pan-Chen 80
 Sun, Shou-Kung 30
 Sun, Si-Chih 14
 Sun, Wesley Keh-Chin 33
 Sun, Wu 52
 Sun, Yun-Tao 18
 Sun, Zu-Lin 41
 Sung, Fung-Chang 24
 Sung, Hsien-Yi 25
 Sung, Shu-Chen 1
 Sung, Wen-Hsun 69
 Sung, Zuei-Low 18
 Sze, Vincent 75
 Sze, Wen-Biou 38

T

Tai, Chao-Tung 39
 Tai, Chin-Nung 68
 Tai, Chun-Jen 68
 Tai, Lian-Chang 80
 Tai, Nai-Lun 36
 Tai, Yui-Kwei 4
 Tan, Li-Ping 2
 Tang, Cheng-Hui 14
 Tang, Chu-Tay 33
 Tang, Peter May 20
 Tang, Shao-Ming 93
 Tang, Wen-Tong 17

Tao-Pao, Chia-Lin 93
 Tien, Ming-Pung 6
 Ting, Chen Hanson 7
 Ting, Chung-Cheng 77
 Ting, I-Ni 25
 Ting, Shu-Mei 22
 Tjiu, Mau-Ying 84
 Tjying, I-Shying 49
 Tsai, Chang-Tien 33
 Tsai, Chin-Fun 43
 Tsai, Ching-Mu 24
 Tsai, Chin-Kun 59
 Tsai, Fun-Kun 53
 Tsai, Hsi-Chin 17
 Tsai, Hsi-Kuei 23
 Tsai, Hsi-Shun 24
 Tsai, Hong-Chin 73
 Tsai, I-Hsiung 87
 Tsai, Jensen 53
 Tsai, Kuo-Hai 31
 Tsai, Ming-Thao 11
 Tsai, Pao-Tien 77
 Tsai, To-Kun 39
 Tsai, Wei-Hsiung 5
 Tsai, Yi-Hung 34
 Tsai, Yin-On 83
 Tsai, Yuh-Chi 25
 Tsai, Yun-Peng 48
 Tsan, Shin-Fu 11
 Tsao, Chih-I 25
 Tsao, Fu-Pao 5
 Tsao, Po-I 77
 Tsao, Yii-Soong 51
 Tsay, Siuh-Zon 59
 Tseng, Chun-Liu 4
 Tseng, Der-Lin 53
 Tseng, Horng-Chih 24
 Tseng, Hsiang-Tuo 84
 Tseng, Hui-Chuan 11
 Tseng, Sze-Kung 53
 Tseng, Tien-Chung 70
 Tseng, Wen-Ping 21

Tsou, Chih-Sheng 37
 Tu, Chin-Chyu 50
 Tu, Wei-Yun 70
 Tung, Hugh-Min 76
 Tung, Ih-Hsiu 49
 Tung, Shou-San 26
 Tung, Ta-Cheng 17
 Tzuang, Shen-Ho 55

U

Ueng, I-Nan 43

W

Wang, Bor-Yih 13
 Wang, Chao-Siang 1
 Wang, Cheng-Hsia 5
 Wang, Chen-Ku 80
 Wang, Chi 39
 Wang, Chia-Chien 81
 Wang, Chi-Chu 19
 Wang, Chih-Kang 64
 Wang, Chi-Tsung 81
 Wang, Ching-Tang 88
 Wang, Ching-Ting 59
 Wang, Chiu-Yuan 2
 Wang, Chueh-Ming 17
 Wang, Chung-Jen 62
 Wang, Chun-Tshen 25
 Wang, Chun-Tsui 92
 Wang, Chwan-Chau 36
 Wang, Der-Nan 40
 Wang, Fu-Chang 16
 Wang, Gene Tang 58
 Wang, Heng-Yu 67
 Wang, Hsiao-Tsai 40
 Wang, Hsi-Ching 30
 Wang, Hsien-Yien 8
 Wang, Hsi-Hua 18
 Wang, Huai 83
 Wang, Hung-Wen 2
 Wang, Jen-Chieh 78
 Wang, Jen-Li 42

Wang, Jenn-Hwa 55
 Wang, Jin-Tuu 59
 Wang, Jy-Shih 1
 Wang, Kuo-Chang 86
 Wang, Meng-Ou 74
 Wang, Ming-Ko 30
 Wang, Pi-Yin 89
 Wang, Ru-Yih 52
 Wang, Shi-Fu 68
 Wang, Shih-Sen 91
 Wang, Shih-Ting 16
 Wang, Shing-Kuei 61
 Wang, Shou-Nan 78
 Wang, Sien-Yung 6
 Wang, Teh-Hong 25
 Wang, Teh-Yi 72
 Wang, Thomas S.C. 36
 Wang, Tseng-Tsai 70
 Wang, Tze-Ting 18
 Wang, Ung-Ping 64
 Wang, Wei-Kuang 14
 Wang, Weilin 92
 Wang, Wei-Shien 71
 Wang, Winston Wen-Shyan 93
 Wang, Yi-Chang 32
 Wang, Yi-Tao 69
 Wang, Yin-Po 31
 Wang, Yu-Lin 51
 Wang, Zu-Nan 39
 Wei, Ju-Chin 4
 Wei, Kuo-Shen 92
 Wei, Shou-Yao 70
 Wei, Vee-Hsin 62
 Wei, Yuan-Heng 12
 Wen, Chung-I 67
 Wen, Chung-Ming 7
 Wen, Hsi-Ping 40
 Wen, Yung-Fu 28
 Weng, Chin-Shan 89
 Weng, Pao-San 53
 Wey, Ming-Tong 5
 Wey, Ing-Tzer 3

Woo, King-Nien 6
 Wu, Carson K. H. 84
 Wu, Chen-Cheng 6
 Wu, Chen-Tsou 80
 Wu, Chieh 92
 Wu, Chi-Hua 67
 Wu, Ching-Mu 8
 Wu, Chi-Sheng 63
 Wu, Chu-Yuan 69
 Wu, Chun-Chung 23
 Wu, Chung-Teh 63
 Wu, Chwen-Li 27
 Wu, Do-Ming 14
 Wu, Hao-Chang 58
 Wu, Jen-Kuei 43
 Wu, Jih-Chyh 79
 Wu, Kuo-Chia 41
 Wu, Lung-Chi 18
 Wu, Maria M. H. 29
 Wu, Ming-Tang 24
 Wu, Nan-Chen 55
 Wu, Niou-Ching 89
 Wu, Shi-Tang 50
 Wu, Shuen-Chao 19
 Wu, Tai-Hsien 14
 Wu, Tsong-Shien 71
 Wu, Wen-Chung 80
 Wu, Wen-Shi 27
 Wu, Wu-Tien 29
 Wu, Yung-Ching 65
 Wu, Yung-Juh 15
 Wung, Sen-Chang 37
 Wung, Tung-Ying 50

Y

Yang, Chang-Yun 84
 Yang, Chao-Luan 16
 Yang, Cheng-Chung 34
 Yang, Cheng-Tsu 86
 Yang, Chieh-Hou 54
 Yang, Chien-Tse 23
 Yang, Chi-Chuen 1

Yang, Chi-Shan 3
 Yang, Chi-Tong 78
 Yang, Ching-Mai 80
 Yang, Ching-Pai 22
 Yang, Chin-Yau 65
 Yang, Chuang-Yeh 53
 Yang, Czau-siung 18
 Yang, Ellen 22
 Yang, Erh-Lin 85
 Yang, Feng-Tai 77
 Yang, Hong-Je 86
 Yang, Hsi-Mei 66
 Yang, I-Lang 49
 Yang, Jih-Ching 77
 Yang, Kuang-Teh 6
 Yang, Kuo-Shu 22
 Yang, Ling-Ling 34
 Yang, Mo-Hsiung 3
 Yang, Pao-Lin 35
 Yang, Paw-Wang 89
 Yang, Pei-Sen 35
 Yang, Peng-Hua L. 24
 Yang, Shei-Ching 46
 Yang, Shih-Feng 66
 Yang, Shiu-Ching 39
 Yang, Shiu-Lan 39
 Yang, Shu-Fan 76
 Yang, Shu-Tong 73
 Yang, Tao-Tze 36
 Yang, Teh-Li 53
 Yang, Tsang-Hsiung 34
 Yang, Tse-Chun 30
 Yang, Tsui-Hwa 4
 Yang, Wan-Fa 52
 Yang, Wei-Tzen 51
 Yang, Wan-Chuan 65
 Yang, Ying-Tang 65
 Yang, Yong-Chi 21
 Yang, Yuan-Jine 84
 Yeh, Cheng-Show 28
 Yeh, Chi-Tung 65
 Yeh, Chuan-I 62



Yeh, Chung-Yauw 65
 Yeh, Ho-Ming 55
 Yeh, Houng-Jaan 39
 Yeh, Mau-Yung 7
 Yeh, Meng-Chun 7
 Yeh, Neng-Che 10
 Yeh, Ping-Hsien 15
 Yeh, Shu-Fan 20
 Yeh, Si-Jung 3
 Yeh, Yu-Yuan 22
 Yen, Cheng-Ping 57
 Yen, Chin-Heng 75
 Yen, Chin-Su 12
 Yen, Fu-Su 56
 Yen, Huusan 31
 Yen, Luc Kuo-Yung 6
 Yen, Mau-Hsiung 32
 Yen, Shih-Ching 37
 Yen, So-Lin 61
 Yen, Tsang-Po 11

Yen, Yi-Ching 8
 Yie, Shi-Tao 20
 Yih, Chun-Po 76
 Ying, Shao-Shun 27
 You, Cin-Hsiung 82
 Young, Fang-Ping 40
 Yu, Bin 53
 Yu, Chia-Chung 16
 Yu, Guey-Kuen 5
 Yu, Hui-Jung 52
 Yu, Pei-Lin 81
 Yu, Terry Yu-Hsien 83
 Yu, Tzong-Shian 69
 Yu, Wei-Chieh 82
 Yuan, Chang-Rue 79
 Yuan, Daniel Ta-Nien 90
 Yuan, Kuo-Fan 85
 Yuan, Liq-Ji 53
 Yuan, Shih-Pin 69
 Yuan, Song-Shi 72

