

296 4614

UBCHEA ARCHIVES
COLLEGE FILES
RG 11

WCUU
Periodical publications
College of Science Newsletter
1940-1942

THE COLLEGE OF SCIENCE NEWSLETTER
WEST CHINA UNION UNIVERSITY
CHENG TU, WEST CHINA

Issue No. 1

December 1940

INTRODUCTION

For some time it has been realised that a definite attempt must be made to link up the College of Science to its increasing number of graduates and friends who are interested in our work. This Newsletter is an attempt to meet that need in providing news of the activities of the staff, students and graduates. It will welcome suggestions and items of interest for publication.

The present plans call for one or two issues a term with copies being sent to all graduates and friends. If you do not receive your copy please write to the Dean's Office, College of Science, West China Union University, Chengtu, and your name will be put on the mailing list.

NEWS OF THE STAFF

Professor Chang Hsiao Li of the Department of Mathematics has been appointed Dean of the College of Science succeeding Professor D. Dye who left last July on furlough. Professor Chang is a graduate of our university in mathematics and was abroad for two years obtaining his M. A. from the University of Toronto. Since his return he has been a member of the staff of the College of Science.

We are glad to extend our congratulations to Professor D. Dye. He has been awarded honorary Doctor of Science degree by Denison College, in recognition of his many contributions in the fields of archeology, geography and geology. Dr. Dye is spending this year of furlough on continued research work which will take him to many of the larger American universities this winter.

Dr. E. Meuser, Head of the Department of Pharmacy has been elected to fill the new position of Vice-Dean so assisting the Dean in his many duties.

Dr. Liu Chen Chao of the Department of Biology spent the last summer on a very successful collecting

trip to Mount Omei and adjacent regions.

We are expecting to welcome back to our staff two former graduates Ho Wen Ch'uin and Pen Yuin Hwa (Mrs. Ho) after some six years of graduate work in the United States and Canada. Professor Ho will join the staff of the Department of Biology.

Professor Kao Yoh Ling is continuing his work in chemical engineering at Massachusetts Institute of Technology in Boston. He has just completed six months work in the Practice School which has taken him to many factories for survey and experimental work.

Dr. Dickinson of the Division of Agriculture has spent several months of the fall term doing consulting work in agriculture to the Central Aircraft Corporation in their model town, Lowing, on the China side of the Burma border. Fortunately during the severe bombing by Japanese planes both Dr. and Mrs. Dickinson were able to escape and are soon to return to the campus.

Professor W. G. Sewell is now on his way back to Chengtu after a very busy and successful furlough. He is escorting Mrs. Sewell and the children to California where they will remain until the situation in the Far East clears. He has been doing further work in textiles and dyeing and will be warmly welcomed.

The Department of Mathematics has been busy this fall preparing suitable textbooks for their classes. Two textbooks have been published, General Mathematics by Jane Dye and Applied Mathematics by H. L. Chang.

A recent survey revealed that our present staff number fifty seven, distributed as follows.

	<i>Pro- fessors</i>	<i>Associate Professors</i>	<i>Lec- turers</i>	<i>Assis- tants</i>	<i>Sp- cial</i>
Mathematics	4	3	3	3	1
Physics					
(Agriculture)	1	1	1	1	—
Chemistry	3	3	3	7	—
Biology	2	0	2	2	4
Pharmacy	3	—	4	4	4
Total	13	7	13	17	9 — 59

NEW MEMBERS OF THE STAFF

Mr. Lin Dsao Chung, (林兆宗) a graduate of Leeds University, England is now director of the Medicinal Chemicals Manufacturing Laboratories of the Department of Pharmacy, in which the Department of Chemistry is also co-operating. Professor Lin has had wide experience in this work before joining our staff. He also is teaching a course in Pharmaceutical Chemistry.

Dr. Chang Chuan, (張鎰) has just joined our staff as professor of leather Chemistry and as Director of the Experimental Tannery of the Department of Chemistry. Dr. Chang has just returned from three years at the University of Cincinnati where he has been doing special research work for the American Leather Council. Dr. Chang is a graduate of Yenching University and after graduation, for twelve years was in charge of their well-known work in leather tanning.

BUILDING ACTIVITIES

The new Chemistry Building, which is to be named in memory of Dr. Stubbs, has made great progress during the past few months and is practically completed. Work is now proceeding on the interior of the building and part is already in use. The remainder will be available in full, it is hoped, during the spring term. The building, which will be equipped with running water, waste pipes, electric power and new laboratory furniture will be used jointly by the chemistry departments of the four universities, Nanking, Cheeloo, Ginling and West China.

The Biological Supply Service of the Department of Biology is building a new dormitory for its technicians. This building is being erected behind San Tai close to the present faculty teacher's residence and tanning school dormitory.

Dr. Meuser has received a generous gift of N.C. 36,000. from a friend, Rev. W.R. Morrison in Canada. Mr. Morrison was formerly connected with the Canadian Mission in their work in Szechwan. This money will be used to erect the smaller of the two buildings which are be-

ing planned for the Department of Pharmacy. This work has already been started and it is hoped that it may be completed and in use by the end of the spring term.

STUDENT ACTIVITIES

Student enrollment has increased this year. The following are the final figures for the fall enrollment.

	1	2	3	4	Total
Biology	6	2	3	1	12
Chemistry	12	2	8	2	24
Math-Physics	16	9	2	3	30
Pharmacy	27	26	9	21	83
	61	39	32	27	149

RESEARCH

Some of the papers presented this term before the Research Conference of the Departments of Chemistry of West China and Cheeloo have been as follows.

- Dr. T. Chiao ; Antihemolysins
- Dr. T. H. Tang ; Gasoline Substitutes
- Dr. Y. C. Tao ; Modern Plastics
- Dr. C. L. Cheng ; Dispersion and Aggregation of Natural Silk
- Dr. C. Chang ; Modern Theories of the Mechanism of Vegetable Tannage

Mr. W. N. Lo of the Department of Physics has recently completed his research project on "The Moisture Content of Szechwan Woods in relation to their Electrical Properties".

The Department of Chemistry is co-operating with the National Bureau of Agriculture in an investigation of the conservation of ammonia content in night-soil. This work is being done by Mr. Y. Wang.

Among papers recently published or accepted for publication by members of the staff are the following.

1. Schmidt, K.P. & Liu, C.C.; A New Toad from Western China; Field Museum of Natural History; vol. 24. no. 13.

2. Hsiung, C.D. & Sewell, W.G.; A General Survey of Dyehouses in Chengtu; Dyers & Colourists, England; 55, p. 416(1939)
3. Sewell, W.G., Hsiung, C.D., Swei, T.D. & Wei, S.H.; Natural Dyes of Szechwan; Dyers & Colourists, England, 55, p. 412 (1939)
4. Tang, T.H. & Peng, C.C.; Female Hormone in Bituminous Coal from Shantung; J. Am. Pharm. Assoc. July 1940
5. Tang, T.H. & Chao, Y.H.; Chemical Studies in the Root of Clematis Angustifolia Jarcq; J. Am. Pharm. Assoc, July 1940
6. Tang, T.H. & Hsu, C.W.; Chemical Studies on Leonurus Sibirius L; J. Chin. Chem. Soc., VII, 2, (1940) in press
7. Tang T.H. & Chao, H; Chemical Studies on Orthosiphon Stamoneous, Benth; J. Chin. Chem. Soc. VII, 2 (1940) in press
8. Tang, T.H. & Wang, C.W.; Chemical Constituents of an Insect Wax; J. Chem. Eng. (China); VI, 2 p. 19 (1940)
9. Tang, T.H. & Kuo, C.L.; A Study on the Clarification of Cane Sugar Juice; J. Chem. Eng. (China); VI, 2, p. 18 (1940)
10. Tang, T.H. & Chao, C.H.; Some New Derivatives of Thymol; J. Chem. Eng. (China) VI, 4, p 23 (1940)
11. Tang. T.H. & Kuo, E.L.; Preparation of Oxalic Acid from Sugar by Catalytic Oxidation. J. Chem. Eng. (China) VI, 4, p 32 (1940)
12. Hsu, S.H., Chang, H.L. & Tien, Y.W.; Survey of Szechwan Materials Containing Vegetable Tannin; J. Chem. Eng. (China) in press
13. Huang, C.H. & Chiang, H.T.; Clarification of White and Purple Cane Juices. J. Chem. Eng (China) VI, 1, p 6 (1939)

NEWS OF ALUMNI

We are very anxious to obtain news of all our graduates and former students. We would be glad to have letters from you telling us what you have been doing.

Class of 1940.....Present Addresses:

Pharmacy

- Chen Chuin Lo (陳瓊樓) West China Pharmacal Laboratories, Chengtu
Li Tsao Hwei (李朝會) Government Isolation Hospital, Chengtu
Wu Shiu Fu (吳修輔) Government Fu Chen Hospital, Chengtu
Chen De Djen (程德政) Government Anti-Opium Hospital, Chengtu
Ting Chao Tsing (丁照清) West China Pharmacal Laboratories, Chengtu

Chemistry

- Tang Han Fen (湯漢芬) Staff of Department of Chemistry, W.C.U.U.
Meh Lun Tsen (麥倫會) Staff of Department of Chemistry, W.C.U.U.
Du Shu Dung (杜書東) Staff of Department of Chemistry, W.C.U.U.
Den Ren Ling (鄧任霖) Military Tannery, Chengtu
Chang Nien Ch'uan (張廉泉) Arsenal, Chengtu
Tien You Wen (田友文) Tientsin, China
Ku Chwen Hsi (顧春熙) student, medicine, W.C.U.U.
Lu Yoh Han (呂約翰) student, medicine, W.C.U.U.

Biology;

- Kweh You Wen (郭友文) Staff Department of Biology, W.C.U.U.
Wei Deh Kwang (魏德光) Biological Supplies Service, W.C.U.U.
Li Chieh Yuan (李吉元) Provincial Bureau of Agricultural Improvement, Chengtu
Shwen Nien Hwa (孫彥華) (Soochow) Biological Supplies Service W.C.U.U.
Hsu Chen Kwang (徐貞光) (Soochow) Staff Anatomy Department, National Central University, Chengtu.

Math Physics;

- Li Deh Ying (李德英) Staff, Union Girl's Middle School, Renshow, Sze.
Roy C. Spooner Editor

THE COLLEGE OF SCIENCE NEWSLETTER

WEST CHINA UNION UNIVERSITY

CHENG TU, WEST CHINA

Issue No. 2

1941
March, 1940

NEWS OF THE STAFF

Professor W. G. Sewell of the Department of Chemistry returned from furlough early in January. He has been speaking at many university functions and has given the campus a most interesting picture of England at war. He quotes the words of Queen Victoria "we are not interested in the possibilities of defeat,—they do not exist" as an illustration of the present feelings. He has begun active teaching work with a course on the Chemistry of Dyeing and has resumed with Miss S. H. Wei research work on the Natural Dyestuffs of Szechwan.

We are glad to welcome Dr. F. Dickinson on his return from his visit to Lowing, Yunnan. He reports that the several graduates and teachers of West China, who are there, are doing excellent work. Many of the plants and animals taken there for purposes of propagation have done well and much progress has been made. Experiments have been conducted on the most efficient utilisation of the virgin soil in that region.

Dr. Li Hen of the Department of Mathematics-Physics has left by plane for Kwenming to attend the meetings of the China Solar Eclipse Committee. This solar eclipse is next September the twenty first and plans are being made for its study in China. He will be away for about a month.

Dr. Paul C. Chang has recently been honoured by an appointment to the National Government Military Planning Commission.

Word has been received that Mr. and Mrs. Norman Glass have left England enroute for Chengtu and are expected to arrive late this spring. Mr. Glass has had wide experience in pharmaceutical manufacturing in England and has been secured through the Friends Service Council to assist the work of the Department of Pharmacy and the Chinese Industrial Cooperatives.

NEWS OF THE DEPARTMENTS

Congratulations are in order to our Agricultural Extension Course which has been granted registration as a two-year course by the Ministry of Education. At present there are thirty five young men and women taking this work, all of whom have Senior Middle School graduation while some have had a year in college.

Dr. Dickinson has recently been making use of the airplane service to bring in eggs of pedigreed Rhode Island Red chickens from Burma. On arrival, they are immediately given to a hen to hatch out. On a recent trial out of twenty four eggs, fifteen were successful.

The staff of the Department of Chemistry are giving a series of lectures on "industrial Commonsense" to a special class of students in training for Chinese industrial Cooperatives.

Direct cooperation has been established between the Department of Mathematics-Physics and the Machine Shop owned by Mr. T. R. Wang, a member of the staff of that department which enables the machine shop to be used as a workshop for students' practice. The machine shop is to be called, "Department of Mathematics-Physics Experimental Machine Shop" and is located on Chiang Hsi Kai. Mr. Wang will offer a course on Machine Shop Practice in 1941-42.

The three departments of Physics, Chemistry and Biology have jointly purchased a 16 mm. movie projector suitable for use with sound or silent films. This projector is now being used to show the fifteen educational films bought last year. These are for use as supplementary material in first year teaching. However, they have been of great interest to all the groups which have so far seen the pictures. It is hoped to extend these films to cover the industrial applications of Science. Some of the titles of the films already purchased are as follows.

Energy and Its Transformation
Sound Waves and Their Sources
Electrochemistry
Catalysis
Human Digestion

The Biological Supply Service, a project of the Department of Biology has completed twenty sets of specimens and apparatus and these have been forwarded to the Ministry of Education for distribution. Another forty sets will be ready in June and another forty in the fall. Each set includes biological apparatus, dry-preserved and solution-preserved specimens, slides, colored plaster of Paris models, so furnishing ample material for demonstrating very concretely the subject matter of biology courses in Junior and Senior Middle Schools. This project was started less than a year ago in answer to the request of the Ministry of Education for such materials.

At the present time the Department of Pharmacy is organized under the following divisions with the following staff.

Head of the Department; Dr. E.N. Meuser:

1. School of Pharmacy; Director, Mr. H.L. Li
Associate Director; Mr. C.K. Hsieh
2. Research Director; Dr. F.H. Tang
Assoc. Director, Mr. T.R. Chu
3. Medicinal Chemicals; Director, Mr. T.T. Lin
Assoc. Director, Miss N.C. Hstao
4. Pharmaceutical Preparations; Director, Mr. T.R. Chu
Assoc. Director, Mr. C.T. Ting
5. Business Administration, Director, Dr. E.N. Meuser
Assoc. Director, Miss S.Y. Tan

BUILDING ACTIVITIES

The various buildings for the Science College, now under process of erection have made great progress. The smaller Pharmacy Building has had work started and has about four feet of brickwork completed. Work is being actively pushed as it is badly needed and it should be completed in early summer.

The Stubbs Memorial, is the name given to the new Science building to be used by the Department of Chemistry. Over half of the building is now being used by the departments of chemistry of the four institutions which have co-operated in its erection.

PUBLICATIONS

Among recently published articles by members of the staff are the following.

1. Li Hen; Dr. Joseph Beech, a Biography; Science (科學) 24, no. 5 (May, 1940).
2. Li Hen; Development of Amateur Astronomy; *ibid*, 24, no. 4 (April 1940).
3. Li Hen; Computation of the September, 1941 Total Solar Eclisne; *ibid*, 24, no. 11 (Nov. 1940).
4. Li Hen; Astronomical Societies of the World; Universe (宇宙) 11, no. 3, 4, (Sept., Oct. 1940).
5. Chang, H.L.; Mathematics and the War of Resistance; Scientific World (科學世界) 9, no. 5.
6. Chang, H.L.; Mathematical Education; Science Weekly (科學週刊) no. 5.
7. Sewell, W.G.; Szechwan Natural Dyestuffs; C.I.C. special pamphlet (工合技術特刊) July 1940.
8. Sewell, W.G.; An Investigation of Chengtu Dyehouses, *ibid*, July 1940.

Continuing the list of research publications of the staff are the following additions:

14. Andrade, E.N. & Chow, Y.S.; The Glide Elements of Body-centered Cubic Crystals with reference to the Effect of Temperature; 1940 Proc. Roy. Soc. (London) A, 175, p, 290-315.
15. Liu, C.C.; Life History of Trimeresurus Jerdonii; Peking Nat. His. Bull. 15, part 4, p 245-252.
16. Liu, C.C.; Natural History Studies of West China Amphibia I, (Adaptation in West China Salientia); *ibid* 15, (Dec. 1940)
17. Liu, C.C.; Natural History Studies of West China Amphibia II. & III (Rhacophorus davidi, Rana Boulengeri); *ibid* (March, 1941)

STUDENT'S THESIS

Each student of the College of Science is required to submit a thesis as part of the requirements for graduation. These are based upon experimental work done upon a problem selected in consultation with faculty advisers. The topics selected for thesis work by some of the fourth year students are as follows.

Biology; Huang Chen-Yung (黃正蓉); Study of fifty Chengtu Medicinal Plants.

Chemistry; Yen Chang T'ai (閻長泰) and Yoh Ih Lun (樂以倫); A Study of the Fixation of Valonia by Collagen (皮質與橡梳子結合情況之研研)

Physics; Ho Yui-Kang (賀永康), Computation of the Total Solar Eclipse of Sept 21, 1941 at different stations of Hupeh Province (民國三十年九月十一日湖北境內各站所能見之日全蝕之記錄)

Mathematics; Huang Chi-Chuin (黃琪俊); The Problem of Two Bodies in the Theory of General Relativity (相對論中之兩個物理同起)

Ko Hsiang Ling (郭象臨); The Constrained Motion of a Particle on different Surfaces of Revolution (質點在轉面上相束運動的研究)
Tai Liang Li (戴良驥); Computation of the Total Solar Eclipse of Sep. 21, 1941 at various cities in China. (民國三十年九月二十一日中國境內各大城市所能見之日全蝕之計算)

Pharmacy; Fan Yu-Ts'ing and Fan Tao-An: (范毓菁, 范道安) Vitamin Content of Fruits and vegetables in Szechwan.

Chien Su-Mei and Yang Shu-Chuen: (錢素梅, 楊煦春) Assay of Native Phizom Filicis.

Chen Shuen-Fan and Chang Chen-Yun: (陳訓方, 張承雲) Nicotine Content of Tobacco in West China.

Chou Pang-Yuan and Chang Si-Kueng: (周邦元, 張錫勳) Study of the Preparation of Vegetable Casein.

Wu Yiu-Ping and Hsiao Cho-Ying: (伍友蘋, 蕭倬殷) A Study on Nisperdin in Native Cortex Citri Fruits.

Yien Yün-Lan: (顏韻蘭) Assay of Native Radix Senegae.

Chen Chien-Lu and Liao Kung-Tieh: (陳謙謙, 廖工鐵) The Antelmintic Principle of Native Quisalis Indica.

Liu Wei-Chieh and Hoh Shui-Fen: (劉偉健, 郝端芬) A Chemical Study on the Oil of Native Quisalis Indica.

Li Tai-Mei and Diang Tsin-Chang: (李黛霄, 梁靜瞻) Micro Determination of Iodine Content in Salt From Different Localities of Szechwan.

Yang Sih-Cheh and Pu Chuen-Hwa: (楊恩澈, 蒲春華) A Study on the Composition on "Shan-Tue" Native Cicada Shell.

Chen Sien-Tseh and Sung Chung-Shin: (鄭先策, 宋鐘興) Preliminary Study on Native Angelica.

NEWS OF ALUMNI

We are dependent upon our graduates for sending in news items for publication so we again ask for your help and co-operation.

Miss D. Y. Liu (劉正玉) Pharm.-'39' because of the bombing of the hospital in Chengtu in which she was working, has returned to the Department of Pharmacy for a few weeks to assist and gain additional experience.

Mr. C. H. Ku (顧春熙) Chem.-'40' has recently discontinued his studies as a medical student in the university to assist Dr. T. N. Li in a Chungking dietetic survey. During the summer he will continue to Peiping to study at Peiping, Union Medical College.

Mr. Hwang Mien (黃勉) Biol.-'28' and D. G. Wang (汪振培) have been successful with their agricultural work in agriculture in Lowing, in introducing several important plants into this area, using the virgin soil. Among these are Cape Gooseberry and Napier Grass. Both with their families had narrow escapes during a recent air-raid.

Roy C. Spooner
Editor

PLEASE GIVE TO MR. OLIVER CALDWELL FOR PUBLICITY ?

THE COLLEGE OF SCIENCE NEWSLETTER WEST CHINA UNION UNIVERSITY CHENG TU, WEST CHINA

Issue No. 4

May 1942

News of the Staff

We regret that little news has come concerning the welfare of Professor W. G. Sewell, who with his wife and three small children was caught in Hongkong by the outbreak of the Pacific War and is now interned, possibly in the Stanley Prison area. No letters have been received and all the information available has come through the general news concerning the group of interned British civilians.

Since the last issue, Dr. & Mrs. Dye have arrived on the campus and are now busy with their work. Both were taken ill with "dengue" and a touch of malaria while in Burma but have now recovered. They had an interesting truck trip from Rangoon to Chengtu by way of Lashio, Kwemning, Kweiyang and Chungking. Various observations along the way formed the basis of several interesting talks given by Dr. Dye on his return. Dr. Dye escorted to Chengtu a large shipment of freight and baggage for many people and institutions. The remainder of the freight had not arrived at Rangoon when he left. News now has come that some of it has arrived in China and it is hoped that the balance will shortly be arriving.

The Department of Chemistry has welcomed the addition to their staff of Professor Z. T. Ling (林兆棕), who last year was on the staff of the Department of Pharmacy. Professor Ling took his undergraduate training in Leeds University afterwards spending two years at the Imperial College of Science London, doing research on "Organic Tautomerism" and securing his Master's degree. Since his return to China he has taught at several national universities. He is taking charge of the work in dyeing of the Department especially the dyeing investigation under the Natural Dyestuffs Project which is financed by a grant from the Ministry of Agriculture and Forestry. For this spring term Professor Ling is teaching courses in Organic Analysis, Organic Chemistry and Dyeing Chemistry.

Dr. C. C. Liu of the Department of Biology has recently left on a six months collecting trip to Hsi Chang and vicinity. This region has not as yet been thoroughly surveyed and it is expected that this trip will add greatly to the Biological Museum's specimens. With Dr. Liu are S. W. Chang (張孝成), Y. W. Kweh, (郭友文) and N. S. Wang (王宜生) This important collecting trip is financed in part by a special grant from the National Government.

Dr. Paul Chang and Mr. N. Glass, from the Departments of Chemistry and Pharmacy, are both expecting to visit the North-West this summer as technical advisors to the Chinese Industrial Cooperatives. Dr. Chang will leave in June and return in July, but Mr. Glass will not likely return until early in the fall.

Dr. T. H. Tang of the Department of Pharmacy has recently returned to Chengtu after spending some time in Chungking on government affairs.

The College of Science is very happy to welcome to its staff Dr. Lu Kao Hwei (呂高輝). Dr. Lu has just returned from the United States. He was caught in Hongkong last December but managed to get out. Dr. Lu is a graduate of Soochow University (1934). After graduation he was employed by the Central Government until he went to the United States in 1935. He secured his M.S. and Ph.D. degrees from Cornell University in the field of Dairy Farming. This was followed by a year's experience in the Beagacres Dairy. He will take special responsibility in the field of animal husbandry under the recently organized Institute of Agricultural Research.

News of the Departments

With the return of Dr. Florence Pen (彭榮華) as announced in our last issue, plans for the beginning of work in Household Economics have taken definite shape. Government permission to open this department has already been secured and the first class of first-year students will be received next fall. In addition a small class of second year transfer students will also be received. Plans are now being made for securing the necessary equipment needed for this department.

A special committee appointed by the College has recently recommended that a magazine to be called "The

West China Union University Scientific Magazine" (華西大學科學叢刊) should be published by the College of Science, once a year beginning in September 1942. Publications are to be in either English or Chinese. This magazine will be available to members of the staff and others for the publication of articles on various aspects of science and scientific research. Student theses may be included in this but only in the form of a brief summary. This recommendation has been approved and Dr. Ho Wen Chuin appointed as the editor.

Plans are also under way for the field investigation by various staff members of certain scientific problems of the Sino-Tibetan Border.

A new departure this spring was the observing of a Science Week in the university from April 1-7 when by means of public addresses, movie shows, social gatherings and an Open-House Day, public interest was aroused. During the Open-House Day, the four departments put on exhibition, interesting displays of apparatus and had staff and students doing popular demonstrations which were of great interest to the many visitors. The College was honoured by a visit from Governor Chang Ch'uin who displayed great interest in many aspects of our work. It is hoped that this programme can be repeated next spring with even greater success.

The Department of Chemistry took advantage of the Open-House-Day to welcome all of its graduates, living near Chengtu to a dinner, given in the Stubbs Memorial Chemistry Building. In addition the three 1942 to-be graduates were present.

In connection with the Science Week, a special Retreat was held on Sunday afternoon, April. The general topic of discussion was Science in its relation to Life. The two speakers were Principal Wu Yu Fang of Ginling College on "Science and the Personal Religious Life" and Professor R. C. Spooner on "Science and the Kingdom of God". The meeting was well-attended and interest was keen.

The new Pharmacy Building is practically completed and is being occupied by divisions of the department as speedily as possible. It is planned to have the official opening some time early in June.

It is a pleasure to announce the gift of NC 2000. to the Department of Pharmacy by the Yoh-You Pharmaceutical Manufacturing Company, for student scholarships. This company was founded by several graduates in Pharmacy two years ago. This gift is a recognition of their loyalty to their department. It is hoped that similar gifts by graduates of other departments may be received in the future.

The Division of Agriculture for a number of years has been emphasizing the need of improving the local goats for milk production for humans. During the last year 1941—two hundred and forty-nine native goats were bred to the stud goats at the University stables. As a result of this heavy breeding programme, by the end of May 1942, there will have been born at least five hundred kids. This figure is based on an average of two kids for each breeding. People who are interested in goat improvement will be happy to hear that one native goat, bred to the University Billy has just given birth to four kids—all females.

Last year one native goat gave birth to six kids—3 male and 3 female, from breeding to the University Indian-Nubian Billy.

Student's Thesis

Each student of the College of Science during their senior year, does experimental work on a problem which is usually concerned with some phase of applied science. Work required is from 6-12 hours a week during the year. The results obtained are used in preparing the thesis required for graduation. The topics of this year's class are as follows:

- Chemistry:** Chen L'un: (陳淪) Mechanism of Vegetable Tannage, Part II; The Effect of Deaminised Collagen on the Fixation of Valonia by Collagen
Hou Chu Tsung; (候助存); Investigation of West China Union University Campus Soils.
Tao Hai P'ung; (陶海鵬); The Chengtu Lacquer Industry.
- Biology:** Chu Yung Yin (朱容英); Morphology and Histology of the Tadpole Mouth of Bufo Gangarizans.

Bi Chi Hsien: (畢繼先); Comparative Histology of the Skin of Some Aleintia.

Gi Chien Chen: (綦建鎮); Notes on Insects Injurious to Stored Grains and Seeds in Chengtu.

Wu Min Chin: (吳名清); The Early Development of the Fresh Water Viviparous Shale.

Chang Hsi Chang: (張錫昌); Squirrels of Szechwan and Hsikang

Liao Shih Mai (廖世邁); The Ostology of the Giant Panda

Math-Physics: Li Hung Deh: (李宏德); The Theory of Limits

Ho Yung Chin: (賀永清); Integrability of Some Discontinuous Functions

Pharmacy: Chiao Chung Len (譙中廉); Food Value of Chengtu Grasses

Wang Shan Kai (王憲楷); Preliminary Study on the Preparation of Peptone from Vegetable Casein

Chen Shih Yi (陳世億); Extraction of Iodine from Salt Bittein

Tai Shen Lun (戴先倫); A Note on the Preparation of Liver Extract

Hsiao Yi Chuan (蕭義全); A Note on the Preparation of Calfein from Native Tea Dust.

Ts'ao Ru Pin & Lan Wen Hsi (曹如平, 藍文熙); Food Value of Chengtu Wild Vegetables

Yu Deh Yin (喻德英); Preliminary Study of Eghedria Extract

Shen Pon Yu (孫博義); Preliminary Study of the Active Substance in Liver

Staff Research

In addition to the work being done through fourth year student work, a large programme of active research work is being done in all departments by staff members. Among the subjects being investigated are the following.

- Biology,** Saliencia of West China
Reptiles of Mount Omei Region
Life History of Some Snakes from Mount Omei
New Types of Frogs from the Mount Omei Region
Life History of Insects Injurious to Bomboo
Study of Local Oil Plants
China Tibetan Border Plants
Potato Diseases in Szechwan
- Chemistry,** Indian Content of Szechwan Indigo and the Effect of Fertilisers
Colouring Matter of Native Dyestuffs
Sulphonation of Local Oils and Waxes
Preparation of X Ray Plates from Local Materials
Preparation of Soft Soaps for use in Tanning
A Study of Chinese Alchemical Documents
- Maths-Physics;** Study of Actinic Rays
Loessial-like Materials in West China
Lattice Patterns
Rivers of the Chengtu Plain
Study of special Radio Circuits
- Pharmacy;** Studies on Glycerine Fermentation
Studies on Organic Acid Fermentation
Constituents of Native Oleum Valerianae
Vitamin B Potency of Rice Dust
Preparation of Pepsin from Local Raw Materials
Studies of Native Yeast Cake
A Survey of the Medicinal Resources of Szechwan

The Editor again wishes to remind all staff and alumni that he is very anxious to receive news items of our alumni. Please forward written either in Chinese or English.

Roy C. Spooner, Editor