Huachung
Academic
School of Education 1941-1947
School of Science 1939-1948

School of Education

ANNUAL REPORT OF THE SCHOOL OF EDUCATION
(1940- 1941)

President F.C.M.Wei,
Hua Chung College.

Dear Dr. Wei:

I beg to submit herewith the following report on the school of Education for the year of 1940-1941.

A General Statement. The work of the School for the year of 1940-1941, is not very much different from that of the School for the previous year. The general activities, the enrollment, and the faculty remain practically the same. Last year there were 23 students in the department of education, and this year there are 23 too, including a special student in Freshman, Robert Morse, an American, Last year the department graduated 6 students, and this year we are going to graduate 6 too. And there has been very little change in the faculty. Only Mr. Hugh White of the minor department of Music left us after the close of the previous school year. We expected a Mr. Weissler to take his place, but he could not get here from Shanghai. In the department of education, we have kept one of our own graduates, Mr. Wang Chi-chia, to assist Professor Anderson in his course of practice-teaching, and to help me in some office work.

Seminar In Education. The teaching work of the deepartment of education during the year has been divided among Dr. Hu, Mr. Anderson, and myself. Dr. Taylor is responsible for only one course: philosophy of education. But most of the time Dr. Hu has been teaching the course for him. One of the major improvements we have made about our education courses during the year has been the Seminar course. It is an informal gathering, once every 2 weeks, or educational majors and the faculty to discuss some important professional problems. At the meeting, the seniors also report on their thesis work and thus secure some helpful suggestions from the faculty in addition to those of their own supervisors. Some general problems presented by the faculty and the Seniors at the Seminar are as follows: Place of emotion in education, place of religious insturction in education place of skill in education, place of books in education, teacher-training in a university, problems of the adolescent, guidance work, practical aims of secondary education, problems of higher education in China, Etc. The course has been well attended and appreciated by both the students and the faculty. We will surely continue the same arrangement next year.

Senior Class. This year we have in the School six candidates for graduation, three boys and three girls. And three of them are trained to be English teachers, two to be social science teachers, and one to be a mathematics teacher. Most of them have already found their jobs, and only one has not made up his mind as to which position he is going to take. It may be of some interest to note the titles of their thesis work:

Chow Tsu-hua: A Study of the Teaching Load of Middle School Teachers in China.
Hsia Fu-shien: A study of the Yunnan Students's Difficulties in the English Pronunciation.
Hwang Chu-hsin: Translation of Arlitt's "The Adolescent."
Liu Yung-sheng: A Workbook in Wrold History for Junior Middle Schools.
Pen Hsu-fang: A Textbook for Junior Middle School Algebra.
Wu Nang-ting: A Study of Responses of Village Adults to Items in an Advanced Psychological Test.

The first study in the above list is really a preliminary report of an investigation conducted by myself and financed partly by the School of Education. We hope to continue the study next year.

Practice-teaching. Another important phase of the work of the department of education is practice-teaching. It has been well handled by Professor Anderson during the year. Let me quote here what he was written in regard to this important piece of work.

Student Teaching In Wu Tai Middle School. "During the year it has fortunately been possible to continue the arrangement with Wu Tai Middle School whereby students of the Junior and Senior years take full responsibility for courses in the school under supervision by members of the Education Faculty. Altogether seven students have taught in ths school throughout the year, one of them without credit, taking responsibility for 22 hours' teaching per week. Two of the students have used their practice teaching as an opportunity for trying out materials for a textbook in algebra and a workbook in world history respectively, which they were compiling as graduation thesis.

Faculty Contribution to The Wu Tai Middle School. "Mr. Paul Wu, junior lecturer in the Department of Education, has been lent for the year to the Wu Tai Middle School, where he has given valuable service both as dean of the school and chief teacher of English. The school is anxious to retain Mr. Wu's service for another, and as his presence in the dean's office greatly facilitates the making of arrangement for practice teaching, the College is willing to continue lending him for another year. Mr. Wang Chichia, one of last year's graduates, has assisted Mr. Anderson in supervising practice teaching, and has also taught six hours a week in the middle school, thereby helping to maintain standards of teaching in the school, while at the same time building up his own experience of science teaching, which he plans to make his specialty.

Future Relations. "In the middle of the year the Wu Tai Middle School moved from its original quarters in a temple to a splendid new building which has been erected through the generosity of the local gentry. The teaching staff has also been considerably strengthened during the year. As the school thus grows stronger from year to year, it may become increasingly difficult to continue co-operating for purposes of practice teaching. From the point of view of an independent middle school, there are a number of administrative disadvantages in using part time teachers who are primarily students in another institution. It was similar difficulties which originally forces us to establish our own practice school in Wuchang. With the help of Mr. Wu acting as dean, it may still be possible for us to continue the present arrangements as for another year, but we must not lose sight of the possibility that the present basis of co-operation may braak down as the middle school becomes progressively stronger and more independent in its staffing. Should that happen, our only alternatives would be either to drop the requirement or practice teaching, or to establish our own junior middle school in Hsichow."

Minor Department of Music. The music work of the school during the year has been somewhat handicapped by a shortage of teaching staff. Nevertheless, Miss Zenk and Mrs. Anderson have done very creditable work for the department. The later has charge of voice-training and offers a singing program every Thursday evening with the help of Mr. Anderson. It has certainly done a great deal towards promoting music-appreciation in the College.

In a brief report to the Board of the Evangelical and Reformed Church, Miss Zenk writes: "On both Christmas Eve and Easter evening we presented sepcial programs, ending with combined choruses. Such things happen all too seldom in this remote part of the world, and, consequently, are very much appreciated by everyone. The majority of our college students seem to have a keen desire to hear and to learn more about western music.....

On Thursday evening, June 5, we presented our annual recital, in which all students of voice and piano participated. We had too limit the attendance to invitations only, and yet our small room was far too crowded....I hope and pray that through the medium of music our students may be able to contribute toward the spiritual development of the people of this great land of China."

Future of the School. In my last year's report I mentioned about the favorable attitude of the Government howard the school. This year, however, we can not say what the government has in store for us though we have been allowed to enroll new students for the following year. The ministry of Education may order us to stop enrolling new students 2 years from now or it may commission us to do some special educational work for the country. All this is not certain. But as long as we are allowed to go on, we will do our level best to train good teachers for Christian as well as Non-Christian Middle Schools.

Respectfully submitted,

Pu Hwang

(signed)

June 12, 1941.

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Dw.

REPORT OF THE SCHOOL OF EDUCATION
(1943-44).

To the President of Hua Chung College.

Sir:

I submit herewith my brief report as Dean of the School of Education for the academic year 1943-44.

Education Department. The work of the department during the year has been carried on very much in the same wasyas it was during the previous year. One improvement, however, has been made in having one teacher instead of two handle the course of educational measurement and statistics. Another change has been made in regard to the requirement of the special method course. Such a course is very important for teacher-training. But since we do not have proper persons to handle the course for all middle school subjects except music and English, we have decided to waive for the time being the requirement of the course with the exception of those in music and English.

In the first term of the year there were 16 students: 4 seniors, 7 juniors, 2 sophomores and 3 freshmen. And in the second term one new student joined the freshmen. Considering the unpopularity of teaching profession among the youth of the country during this wartime, this enrollment is not too small. I am glad to report that most of the students have worked very hard and seem to be quite interested in the calling of teaching. All our seniors and juniors are Christians and have played during the year a leading role in all the religious activities of the college.

In regard to practice teaching, Prof. Anderson reports: "During the year 7 students have done practice teaching in the Wu Tai Middle School in the following subjects: Music (2 students) English, History, geography, algebra, Chinese. In organizing this work one of the difficulties is the fixed number of hours required by the government curriculum or by the school. In music, geography and history a student can get 2 hours a week to teach, which considering the time required to preparation, going to school, and the weekly conference of practice teaching and attendance at "open lessons" makes a reasonable load of 3 credits per term. In the case of students teaching English and alegbra they are required to go to teach 4 periods per week, which makes the load of work involved rather too heavy for the amount of credit given. Chinese represents the most extreme case of overloading. The school authorities require that a Chinese teacher must take responsibility for both literature (3 hours per week) and composition (2 hours a week) and of course the correction load for composition is quite heavy. Naturally the practice teachers receive extra salary for the extra hours taught, but this does not affect the problem of the effect of this extra work on their other studies."

Music Department. This department still remains a minor department. As Mrs. Allen, the acting head of the department is getting ready to go home on furlough, Mrs. Anderson, Assistant Professor of Music reports the work of the department as follows: "Courses studied. As there are only 2 teachers in the department and one presentable piano, courses in piano (grades V-VII) were offered for special students only. Two juniors studied music teaching method and did supervise music teaching in the middle school. Courses in voice (elementary, intermediate, advanced) and a new course in conducting and accompanying included a few students in other departments. The policy of giving training in public performance was continued. Music in the community. Regular student recitals were well attended by students and teachers and a weekly gramophone hour in the second term provided orchestral music for 25 to 30 students, most of whom had had no musical training. Community service. Special music students showed good spirit in leading church services in the choir and at the organ and in conducting children's worship in the Sunday School and college primary school."

Primary School. The Senate of the college, seeing the need of a primary school for the children of the faculty, asked last summer the School of Education to start such a school in September and to take charge of its administration. Though elementary education is not within the province of our work, we realised at once that we could do some experimental work with it since we do not have our own practice school in Hsichow. Immediately we started to organize the work. Miss Huang Hsien-yuen, who was graduated last year from the School of Education, was appointed dean of the primary school. The school was formally opened on September 1, 1943 with 14 children, and a number of college students were engaged as voluntary teachers. In the first term the pupils were all faculty children, and in the second term one outsider was admitted with tuition equivalent to 6 shen of rice. About the middle of the second term 2 faculty children withdrew. So there were only 13 pupils toward the end of the second term. Though the number of pupils is small, they have been grouped into 5 classes. So in many classes the method of the one-room teacher has had to be adopted. Another feature about the school is that it is a half day school, and the pupils are expected to do their home work at home in afternoons. The school was formally registered under the Hsien government of Tali on June 15, 1944. One pupil is expected to graduate this summer, and has been ordered to take the Hsien examination in the city of Tali on July 2.

Of course, there have been many difficulties in opening a school like this in Hsichow. There is only one paid teacher for the school, and many kinds of equipment, children's books, and even textbooks cannot be procurred in this part of the country. We have, however, made a good beginning. We hope that we will be able to continue such a work when we go back to Wuchang after the war.

Respectfully submitted,

Pu Hwang.

June 28, 1944.

Report of the School of Arts

July 2, 1944

President Wei,
Hua Chung College,
Hsichow

Dear Mr. President:

During the academic year 1943-4, about 100 students enrolled in the School of Arts. The Department of Economics-Commerce had 40 students, and the remaining 60 students were registered in the Departments of Western Literature, Chinese and History. The Chinese Department was fortunate to secure the reappointment of Mr. Fu Mou-chi. He took over the administration of the Chinese Department at the beginning of the second session. There was little change in the personnel of other departments.
The series of public lectures given during the year under the auspices of the School of Arts proved again to be beneficial to the students as well as to some faculty members. I have approached Mr. Ma once or twice, but so far he has declined to assume any administrative duty.
The work of the School of Arts as a whole remains to be integrated. We now have several independent departments which have little to do with each

other. I am afraid there is little to distinguish the Hua Chung School of Arts.

Respectfully submitted,

C. F. Lo, Dean School of Arts.

One of the outstanding features of the College at the present time is the change in proportions of Christian to non-Christian students. In the first term of last year, out of a total of 150 students, only 42 were Christians, or 28% (as compared with 40% in the previous year). By the end of the year, the proportion had risen slightly to 32% (as compared to 44% in the previous year). At first sight there may appear to be no great cause for concern in these figures, but when analysis is pushed a little farther, the fact emerges that while the two senior classes were almost solidly Christian, the proportions in the freshman and sophomore years were much lower, being 12% and 23% respectively at the end of the year. We also face the fact that of the 70 to 80 students who entered Hua Chung for the first time in October 1943 only three had already been baptized, while the great majority of these new students had had no previous contact with Christianity whatever. The reason for the change is obvious. The majority of the students in the junior and senior years came to the college as Christians and many of them from our affiliated Christian Middle School, but the great majority of the students in the first two years are from Yunnan, and there is only one Christian Middle School in the Province.

The number of students from Christian Middle Schools in the spring term of this year was only half the corresponding number for the previous year. Does this mean that then within the next two or three years the Hua Chung Student body will become overwhelmingly non-Christian in character? A report is not the place for prediction. What can be said is that the effort to meet this new challenge and opportunity has been the keynote of much of the religious work carried on during the year. On the first Friday after registration, all the new students were called to a meeting in the chapel at which President Wei and other speakers explained the attitude of the College towards Christianity and invited the freshmen to attend the chapel services and investigate the teaching of Christianity for themselves at a series of Friday night meetings. These meetings had been planned particularly to meet the needs of those who were entirely ignorant of Christianity. Eight fundamental topics such as "How does Christianity compare with other religions?" "What is the Christian idea of God?" "Who was Jesus Christ?" "How do Christians worship?" What is the Church?" etc. were treated in an elementary way. After an introductory talk by a Faculty member, the audience divided into small groups for discussion, so that questions could be raised and answered more informally and important points amplified. This series received a good response from the students for whom it was intended, attendance varying from around 30 to over 60. In the second term a similar series was organized during Lent, the topics being based on the Sermon on the Mount. After Easter a smaller number of students continued their study by reading parts of the Gospel According to St. Mark in English (using Moffat's translation) along with the Chinese. Several of the new students have also attended chapel services from time to time, and apparently

feel quite at home in taking part in Christian worship. In addition to these public activities, some ten or a dozen students have received individual instruction during the year in preparation for baptism and church membership. Not all who have received instruction have been baptised as yet, and no undue pressure is put upon them to take that step, but six students have been baptised during the year and two of these have been admitted to membership in the church. The general attitude among the students of the first two years is at least tolerant towards Christianity, and in many cases there is genuine interest and sympathy with Christian ideals. Some of the Christian students have actively fostered such interest and we have heard of at least one informal discussion about Christianity which went on well past the time for "lights out." What the future character of the student body will be is hard to predict, but at the present time there is an undoubted opportunity for direct evangelism and for training Christian students to meet their responsibility for passing on the Gospel. Let us work while it is given today.

The situation with regard to the further training of Christian students is less encouraging. The elective courses on the "The Bible" and "Christianity in the Light of Modern Knowledge" have again been offered to the students of the junior and senior years, but have been chosen by only a very small proportion of these two classes. As regular scheduled courses meeting twice a week they naturally add somewhat to the students' load of work, but they are not counted by the Ministry of Education as credit towards a degree. As the requirements laid down for the degree are already excessive one can to some extent understand the students' reluctance to undertake this extra work. Along with this, however, there is a certain failure on the part of the Christian students to realize the extent of their own ignorance of the Bible and of Christian teaching. We are now reaping the fruits of the last 15 to 20 years during which, owing to government restrictions, no systematic instruction in the Christian faith could be included in the curricula of the Christian middle or primary schools. Students tend to think that their Christian duty has been fulfilled when they attend chapel (provided they are not too busy with their studies) or by doing a piece of social service as occasion arises, but they have very little idea of applying themselves to the study and intellectual understanding of the Christian religion. Heads of departments also seem to give very little stimulus to their students to pursue such studies. The attitude of the students in this matter needs to be changed from the middle school years upwards. One of the important question to be faced after the war is whether the religious liberty guaranteed in the new Chinese constitution will be interpreted by the government as including the right to give Christian instruction as part of the curriculum of Christian schools. If such a right should be granted, the next problem will be to find teachers who can make such Christian instruction attractive to students who have to regard any compulsion or persuasion in the matter of receiving instruction in religion as an infringement of their personal freedom. The importance of the Hua Chung School of Education and the proposed Theological Department in this connection needs no emphasizing.

Finally, a few matters of record. 1) Early in the year the Christian students voted to dissolve the Students' Christian Fellowship. In place of the Fellowship Committee, the student chairmen of the three denominational fellowships have met from time to time with the secretary of the Chapel Committee to plan matters of common interest, such as, Christmas celebrations, a moonlight service on the beach, organizing some help for wounded soldiers in the Hsichow military hospital, etc. The new method of working is less cumbersome than the old, and leads to less duplication of committee offices, so imposing less burden on a decreased number of Christian students. 2) Last summer vacation the Friends' Ambulance Unit medical team at Hsiakwan found itself without an interpreter.

On the need being made known, three Christian students volunteered to fill the gap for about a month until classes were resumed. Later one of the interpreters reported on the work being done by the F.A.U. for wounded soldiers and as a result a collection was made, and added to money which had been raised during the vacation by dramatic shows, so that a total of NC$22,000 was sent to the F.A.U. to provide special diets for sick soldiers. 3) During the autumn, distressing reports reached the College of famine conditions in Kwangtung. Special offerings were made at Christmas amounting to $3,144; the Sunday School children added their collections for the term amounting to $500; the local Hsichow church, which is led by one of our students, contributed a further $345, thus making a total of $4,000 which was sent to Kukong. 4) the Sunday School has continued its valuable work during the year. To care for the special needs of adolescents, a Young People's department has been started, through which it is hoped to interest some of the students in the local middle school. Over twenty children of the faculty and staff have been taught, but it is becoming increasingly difficult to find College students who are competent to act as Sunday School teachers. 5) The Chapel Choir has continued its contributions to the Sunday worship. At Christmas special music from the "Messiah" etc. given on Christmas eve was repeated in Tali on Christmas night at a party given by General Sung for the foreign and Chinese military officers in this area. Similarly at Easter a special service in English with special Easter music was organized in the chapel for the benefit of American soldiers in the district and was attended by over fifty from Tali and Hsiakwan. 6) The meetings of the Faculty Christian Fellowship have been kept up monthly during the year. The lack of new books has proved a handicap, but a number of the Hazen books were reviewed and also the first volume of Reinhold Neibuhr's Gifford Lectures. Mrs. Anderson gave a talk on the appreciation of Church Music, Miss Bleakley one on Greek Tragedy, Dr. Wei on the Bhadavagita, and Mr. Ma gave his idea on the Future of Christian Education from the point of view of a non-Christian, Bishop Hall during his visit last summer vacation, conducted a one day retreat for members of the faculty and staff, which was most helpful and inspiring. In our continued isolation we urgently need more help along this line to nourish the spiritual life of our community.

David F. Anderson, Secretary,
Chapel Committee.

Report of Registrar
Fall Term - 1943-44.

	Men	Women	Total
Seniors	7	6	13
Juniors	10	9	19
Sophomores	42	6	48
Freshmen	61	9	70
	120	30	150

Christian Students.	42	
Non-Christian Students	108	
	150	
Christian Middle School Graduates		24
Non-Christian " " "		126
		150

Geographical Distribution	
Fukien	7
Chekiang	3
Hopeh	1
Honan	1
Hunan	14
Hupeh	8
Kiangsi	2
Kiangsu	4
Kwangtung	16
Kwangsi	1
Kweichow	1
Shantung	1
Yunnan	91
	150

Report of Registrar

MAJOR	SENIORS	JUNIORS	SOPHOMORES	FRESHMEN	SPECIAL TOTAL
CHINESE	0	1	4	11	16
English	3	6	10	8	26
Econ.-Com.	3	0	6	0	9
Economics	0	0	9	20	29
Commerce	0	0	3	1	4
Hist.-Soc.	0	1	4	13	18
	6	8	36	53	102
Biology	1	1	2	0	4
Chemistry	1	1	2	4	8
Physics	1	2	6	10	19
	3	4	10	14	31
Education	4	7	3	3	17

SPRING TERM 1943-44

	Men	Women	Total
Seniors	5	6	11
Juniors	8	9	17
Sophomores	37	6	43
Freshmen	55	6	61
Special	0	2	2
	105	29	134

Geographical Distribution	
Fukien	6
Chekiang	3
Hopeh	1
Honan	1
Hunan	13
Hupeh	8
Kiangsi	2
Kiangsu	3
Kwangtung	13
Kwangsi	1
Kweichow	1
Shantung	1
Yunnan	81
	134

Christian Students	36
Non-Christian Students	98
	134
From Christian Middle Schools	21
" Non-Christian " "	113
	134

MAJOR	SENIOR	JUNIOR	SOPHOMORE	FRESHMEN	SPECIAL	TOTAL
Chinese	0	1	4	10		15
English	3	4	9	6		22
Econ.-Coml	2	0	5	0		7
Economics	0	0	9	15		24
Commerce	0	0	3	0		3
Hist-Soc.	0	1	3	13		17
	5	6	33	44		88
Biology	1	1	1	0		3
Chemistry	0	1	2	4		7
Physics	1	2	6	10		19
	2	4	9	14		29
Education	4	7	2	3	2	18

M. Bleakley

Registrar.

Copy

A TENTATIVE PLAN FOR THE SCHOOL OF EDUCATION OF HUACHUNG UNIVERSITY AFTER THE WAR

I. The Main Purposes of the School.

A. To train middle school teachers, administrators, religious directors, and student counselors.

B. To serve all the affiliated middle schools or other Christian schools in the region of Central China along the lines of improving their teaching and administration.

C. To carry on researches or investigations in the field of Christian education in China; and to publish, if possible, an educational periodical for the Christian educators in the country.

II. Curriculum:

A. The Teacher-training department (142-152 units)

1. General requirements:

a. Chinese	6
b. English	10
c. Sociology	6
d. Psychology	6
e. Introduction to Philosophy	6
f. Physical Education (4 years)	0
g. Music (1 year)	0
	34

2. Education requirements:

a. Introduction to education	6
b. Educational Psychology	6
c. Secondary education	6
d. General methods	4
e. Practice teaching	6
f. Special methods & material	4
g. Thesis work	4
	36

3. Subjects for teaching: 50-60 units each
   a. Chinese
   b. English
   c. Mathematics
   d. History & Geography
   e. Physics & Chemistry
   f. Biology & allied subjects
   g. Music

4. Electives: 22-32 units
   a. Education electives
   b. Subject Electives

B. Education Department (142-152 units)

1. General requirements: 34, same as the Teacher-training Dept.
2. Education requirements for each line of work:
   a. Administration (Principal & Dean)

(1) Introduction to education	6
(2) Educational psychology	6
(3) Secondary education	6
(4) General Methods	4
(5) Practice teaching	6
(6) Special methods & material	4
(7) Thesis work	4
(8) Educational philosophy	4
(9) Educational measurements & statistics	6
(10) Middle School Administration & Supervision	4
(11) Educational Administration & Supervision	4
(12) Comparative education	4
(13) History of Education	6
	64

b. Ethical Character (Religious Director)

(1) to (7) same as Administration. 36 units.	36
(8) Educational philosophy	4
(9) Middle School Administration & Supervision	4
(10) Child & adolescent psychology	4
(11) Mental Hygiene	3
(12) Religious education	6
(13) Character education	4
	61

c. Guidance (counselor)

(1) to (7) same as Administration	36
(8) Middle School Administration & Supervision	4
(9) Guidance in Secondary Schools	6
(10) Child & Adolescent psychology	4
(11) Character education	4
(12) Mental Hygiene	3
(13) Educational measurement & statistics	6
	63

3. Subjects for teaching: 30-40 units.
   Subjects as those in the Teaching-training Department
4. Electives: 14-24 units.
   a. Education electives
   b. Subject electives

III. Practice Schools or attached schools:
   A. Purposes:
      1. Affording practice and experiments for
         a. teaching
         b. administration
         c. direction of religious activities
         d. counseling
      2. Affording educational facilities for faculty children
      3. Preparing students for the university
      4. Serving as models for Christian schools in the region of Central China
   B. Grades of the schools:
      1. a primary school
      2. a junior middle with a girls' department
      3. a senior middle school with a girls' department

IV. Library: the library of the school should have the following collections:
   A. All important American and English education books.
   B. All important Chinese education books.
   C. All important educational documents, reports, pamphlets, tests, etc. (Chinese or English)
   D. All important textbooks for primary and middle schools (Chinese or English)
   E. All important educational periodicals (Chinese and English)

V. Faculty: depending upon the enrollment; minimum:
   A. The School of Education:
      1. Five professors and assistant professors
      2. Seven lecturers who will handle the 7 courses of Special methods and materials, and teach those subjects in the middle schools.
   B. The Practice Schools: besides the 7 lecturers, there should be enough teachers in the middle schools and the primary school to carry on the administration and teaching adequately.
   C. The Library: it should be an important branch library of the University Library, with a trained librarian and an assistant.

Copy

ANNUAL REPORT OF THE SCHOOL OF EDUCATION.
(1944-1945)

To the President of Huachung University

Sir:

I submit herewith my brief report as Dean of the School of Education for the academic year 1944-1945.

The work of the school during the year has been carried on very much in the same way as it was during the previous year. One conspicuous thing about it is that a dwindling faculty has been able to handle the work. Mrs. Walter Allen, the acting head of the minor department of music, left us last year. The music work has been carried on by Mrs. D. F. Anderson alone. Prof. Anderson, who has been all these years a full-time teacher in the school, has been appointed acting dean of the faculty of the university during the year, and has to devote more than two thirds of his time to the work. Mr. Paul Wu, a lecturer in the school, has taught two sections of the conditioned English class for the English department. Because of this short-handedness, we have to resort to the practice of offering alternate years required courses for the juniors and seniors.

During the year we have tried very hard to find some teachers either for music or education. But we have failed to do so. Our only hope is that when we move back to Wuchang we may be able to find a few good teachers. At present we simply have to go on with our limited faculty as best as we can.

As to the enrollment of the school, I am glad to report that we have more students this year than we had last year. In the first term of this year there were 27 students; 12 girls and 15 boys, and in the second term one girl has asked for leave on account of sickness. About 80% of them are Christians. There are seven seniors who are to graduate this week; two for music, two for Chinese, one for English, one for history and one for chemistry. All of them have already found proper teaching positions.

During the year the primary school has got along nicely. At present there are 24 pupils, and 17 of them are our own faculty children. Miss Huang, the dean of the school, with the help of ten part-time teachers is doing a good piece of work. Seven of the part-time teachers are college students who are on relief, and one of the rest is a junior of the education department who is teaching in the primary school for the purpose of practice-teaching. Six pupils are expected to graduate this summer.

To close this report I like to attach a copy of "A Tentative Plan for the School of Education of ~~the~~ Huachung University after the War." I hope due consideration may be given to it.

Respectfully submitted,

Pu Hwang (signed)

June 27, 1945.

ANNUAL REPORT OF THE SCHOOL OF EDucation
(1946-1947)

To the President of Huachung University

Sir:

I submit herewith my brief report as Dean of the School of Education for the academic year of 1946-1947.

One of the main purposes of the School is to serve all the Christian middle schools in the region of Central China along the lines of improving their teaching and administration. Ever since we came back from Yunnan, this purpose has been kept much in the foreground. At the beginning of the year we started to organize the local Wuhan association of the Christian middle schools' principals. During the year this organization has been very active, and has helped a great deal in solving many common knotty problems of the administration of the eight middle schools in Wuhan.

A conference was held under the auspices of the School in Huachung from January 28 to January 31, 1947 for all the principals of the Christian middle schools in Hupeh, Hunan, and Kiangsi. About 17 of the 23 principals of the whole area attended. Many important administrative problems were discussed. A detailed report of the conference has been prepared and sent to each principal. This conference was the first one after the war, and we are planning to hold it once every two years as we did before the war.

A good way to help the Christian middle schools near the university in Wuchang is to encourage the teachers of those schools to attend, free of charge, the courses offered by the school. In the first term of the year ten teachers of Boone School and two of St. Hilda's School joined some of our courses. But on account of the pressure of their work in their own schools, they did not turn out in the second term.

During the year we have also revived the publication of the Middle School Bulletin. It is a statistical study of all the Christian middle schools in this area. The first issue after the war was published in April 1947. We intend to publish one for each term. This kind of data will be useful not only to the individual schools, but also to our school, for the study of the Christian middle schools in Central China.

As a kind of extension work of the school, the dean during the year has been asked by the Governor of Hupeh to serve as chairman of the division of rural education in the Organization for the Promotion of Rural Reconstruction in the province of Hupeh. A number of trips were made to the rural districts near Wuchang. And plans have been drawn to improve the rural education of a particular rural district. It is up to the provincial government to carry them out. As an institution of higher education in Hupeh, we have every obligation to serve the provincial government as much as we can.

Our faculty has been strengthened during the year by two additional members: Miss Venetia Cox for the minor department of music and Dr. Paul V. Taylor for the department of education. The latter, however, has offered only one course, for his time is devoted largely to the direction of the Language School and to the care of college buildings and grounds. Mr. and Mrs. David F. Anderson have not returned from their furlough in England. Mr. Paul We has taken charge of Mr. Anderson's work and Miss Cheng Wen-tan has served as junior lecturer in the minor department of music. Mr. Shao Ese-feng, a new member of the department of Chinese in the School of Arts, has offered a course on Special Methods of Teaching Chinese. The rest of the program of the school have been carried on by Mr. W.M.Hsiung, Dr.W.K. Taai, and the dean.

Since the buildings of the Practice School were much needed to house college staff members when wer returned from Yunnan, we have had to postpone the reopening of our Practice School for the year. The Boone School

and the St. Hildas School have been very kind to allow our junior and senior students to practice teaching in their regular classes.

As to the enrollment of the school, there were 54 students in the first term of the year. In the second term four left on account of illness. There were only two students in the senior year. Both of them were graduated in June. One is Marion Wang who intends to continue her music training in America. The other is Li Chin-chang. He has been appointed a teacher in our Practice School which will open this fall.

During the year the curriculum of the school has been thoroughly studied by the dean and the school faculty. Our problem has been how to provide adequate training for those who want to enter into teaching as life work and for those who want to enter into various kinds of educational work in additional to teaching. Two separate departments: teaching-training department and education department, have been suggested, and adopted. The new curricula for the two departments have been made. They have been approved by the curriculum committee appointed by the general faculty of the university. We are going to try them out this following academic year.

In regard to the minor department of music, Miss Cox, the acting head of the department writes: "The Music Department of the year 1946-1947 began with many handicaps: no music rooms, no gramophone, no metronomes, and only one piano. The faculty also numbered two instead of the needed four or five instructors. By borrowing one piano and buying another we were able to start work the last week of October. In November and December four second-hand pianos arrived from America and we have enough to carry us through the year. Also in November one temporary classroom and six small practice rooms were finished for us to use. In the fall term Miss Cheng Wwn-tan and I taught eight piano students registered in the Department of Education; three of whom had chosen Music as their minor subject; and six from other departments who are promising music students. A class in voice, fifteen in number, was also taught and very satisfactory results were realized especially from students from Boone School and St. Hilda's. Students in this class who had not studied piano were urged to join a class in piano instruction this spring so they could learn to play accompaniments for their songs. This brought our enrollment up to twenty.....Repeated requests have been made for violin lessons and instructions on Chinese orchestral instruments, and we hope we can soon give these opportunities. Also instruction on band instruments is wanted. The students are eager for more and better opportunities in music and we look forward to providing them. As to equipment, Dr.T.G.Djang has returned and claimed his piano, which we have been using. We must have another to replace this, also a gramophone and two metronomes. More piano music and gramophone records also are needed, and one more teaching room with cupboards to hold the music and records".

Respectfully submitted.

signed: Pu Hwang.

School of Education
Hua Chung University
Wuchang, Hupeh

ANNUAL REPORT (1947-1948)

To the President of Huachung University

Sir:

I submit herewith my brief report as Dean of the School of Education for the academic year of 1947-1948.

Since 1937, the National Government has adopted a policy that no private institutions should undertake the task of teacher-training. Our School has been in a precarious position. Though the Ministry of Education has allowed us to go on, we have had no legal status. However, in January, 1948, the National Goverhment promulgated the revised set of statutes concerning higher institutions. Article 4 runs: "A university consists of the following schools or colleges: Arts, science, law, medicine, agriculture, enginaering, and commerce. Teachers colleges must be established independently by the government, but it may be attached to a national university. Any schoolof education established before the promulgation of this revised set of statutes may continue to operate." Henceforthwe will by virtue of this article have our legal status in the national system of education. This has been a great relief to us, for we have in the past suffered very much from the uncertainty of our future.

The Ministry of Education up to the present has set no curriculum standards for us to follow. We have to reconstruct our own curriculum. In my last report I mentioned that two departments were needed: teacher-training and education; and the former had the emphasis on training middle school teachers, and the latter on training administrators and students of secondary education. I am glad to report that the curricula of the two departments have been put into practice during the academic year for the freshmen and sophomores. The upper two classes still follow the old curriculum. The new curricula will be reported to the Ministry of Education in the near future.

As to the enrolment of the School, there were in the first term 97 students: 5 seniors, 10 juniors, 48 sophomores, and 34 freshmen. In the Teacher-training Department there were 13 sophomores and 12 freshmen, and in the Education Department 35 sophomores and 22 freshmen. The reason for a large number of students in the sophomore year was that quite a number of students were transferred from the other schools to the School of Education. In the second term there were 85 students; and twelve students left on account of illness or on account of poor work. Three seniors were graduated in June.

As to our faculty, we have had a few changes during the year. Mr. Paul Wu, a lecturer of the School, went to America in August on the Associated Board Fellowship to study in Teachers College of Columbia University, and Miss Clara Cheng, a junior lecturer in the minor department of Music, went to England in July to study church music in St. Nicolos College, Canterbury; and Mr. and Mrs. D.F. Anderson returned from their furlough in September. Mr. Anderson has been appointed head of the Teacher-training Department, and Mrs. Anderson has returned to her work in the Music Department. Mrs. Van Sant and Mrs. M. T. Wu have joined the Music Department as part-time teachers. The department has been further strengthened by the return of Mrs. P. V. Taylor, who came back in January. Mr. W. M. Hsiung left us unexpectedly at the beginning of the second term. Dr. Taai and Dr. Taylor were very kind to take up his teaching work, and I myself assumed the administration of the Practice School.

School of Education, Huachung University, Annual Report 1947-1948 -- 2.

Another important thing about the School of Education during the academic year has been the reopening of the Practice School. The school had been closed since the university moved from Kweilin to Tali, Yunnan, in 1939. It was reopened in September, 1947. Mr. Chu Shen-Ya ('37) and Mr. Li Ching-Chang ('47) were appointed two full-time teachers of the school. There were 26 pupils in the first term and 39 in the second term. We started with two classes: Junior I and Junior II. It is intended to be a six year coeducational day school. It is a laboratory for the School of Education for the courses of practice-teaching and middle school administration and supervision.

In regard to the minor department of Music, Miss Venetia Cox, the acting head of the department, writes: "Twenty-two students took courses given by the Music department this past year, two more than the previous year. In this number five were taking Music as their content subject in the School of Education, two in the junior class, one in the sophomore class, and two in the freshman class... We are each keenly interested in our work and I notice a marked improvement over the standards of last year. Other improvements have been: (1) a course of study in Music, planned by members of the Music faculty, has been accepted by the university faculty as the one to be followed in the future, (2) new equipment in the form of another second-hand piano was bought in Hankow in the fall, (3) new supplies in the form of gramophone records, music and books for our shelves in the library from the British Council; and music and gramophone records from America have been received. The two major needs for next year are: (1) a concert grand piano for recitals and concerts, (2) a young missionary teacher of piano."

Respectfully submitted,

Pu Hwang (signed)
Dean, School of Education

School of Science

私立武昌華中大學

HUA CHUNG COLLEGE

(CENTRAL CHINA COLLEGE)

WUCHANG, CHINA

BULLETIN No. 2

OF THE

YALE-IN-CHINA SCHOOL OF SCIENCE

JAN. 1934

FACULTY OF SCHOOL OF SCIENCE

Paul Chi-ting Kwei, Dean of Science and Professor of Physics
B. A. (Yale); M. S. (Cornell); Ph. D. (Princeton).

BIOLOGY

Beh K'ang Ch'en, Assistant Professor
B. S. (Shanghai); M. S., Ph. D. (Chicago)
Formerly Professor of Biology, National Peking University.
Fu-chun Hsu, Instructor
B. S. (Shanghai)
Sidney Dji-ti Siao, Instructor
B. S. (Shanghai); M. S. (Yenching)

CHEMISTRY

Tse-gung Djang, Professor
B. S. (Shanghai); Ph. D. (Johns Hopkins)
Formerly Dean of College of Science and Professor of Chemistry, University of Amoy.
Phillip Marcus Fisk, Assistant Professor
Associate City and Guilds' Technical College; B. Sc. (1st class Hons.), Ph. D. (London)
Formerly chemist to British industrial concerns.
Chia Chung Shih, Instructor
B. S. (Tsing Hua)
Keet-ye Siao, Instructor (on leave of absence)
B. S. (National Central)
Liang Fang Djung, Assistant
B. A., B. S. (Shanghai)

PHYSICS

Paul Chi-ting Kwei, Dean of Science and Professor of Physics
B. A. (Yale); M. S. (Cornell); Ph. D. (Princeton)
Formerly Assistant Professor of Physics, Yale-in-China; Professor of Physics North-eastern University, and Shanghai College.
Richard Peng Bien, Assistant Professor (on leave of absence)
B. Ph. (Brown), graduate study (Harvard)
Formerly Professor of Physics, Northeastern University.
Shi-chin T'ao, Lecturer
B. A. (Yale-in-China); M. S. (Yenching)
Hsi Yin Sheng, Instructor
B. S. (Yenching)

MATHEMATICS

John Leslie Coe, Lecturer
B. A. (Hamilton); M. A. (Michigan)
Elizabeth M. Osborn,
B. A. (1st Hons.) (Cantab.)

REPORT ON THE PRESENT POSITION AND FUTURE REQUIREMENTS OF THE YALE-IN-CHINA SCHOOL OF SCIENCE, HUA CHUNG COLLEGE, WUCHANG.

In the four Central provinces of China, serving a community of over seventy million souls, there is at present being conducted a unique departure in University Education. In the Wuhan area, where the Han River flows into the Yangtse, and the projected rail communication from Peiping to Canton breaks—at this strategic point stands Hua Chung College. Here in a Union institution an attempt is being made to take all that is best in American and British University life and transmute it to the needs of this vast area. It is a young institution just ten years old, but its roots are deep in the great past of its combined progenitors: Boone, Griffith John, Wesley, Huping and Yale-in-China Colleges. These five Colleges, whose names are something to conjure with in Central China, previously carried on their own University work, but believing that in unity is strength they combined together to form one College, the first three in 1924, and the last two in 1929.

The object of the College is to produce students of the highest type, intellectually and morally. It plans to remain small and only those students who can really benefit by training of the highest intellectual level can hope to enter.

The College is unique, in that in his first two years, the student takes a "general" course reminiscent of American practice, but he has a concentrated programme during the last two years and the standard of his work is checked by both Intermediate and Final Examinations in the way usual in British Universities.

The experiment is unusual in another way: the College stands at the peak of an educational erection. On the lowest stratum is the Junior Middle School, next above is the Senior Middle School, and on top the College. The College is not only the goal of the student, it not only advises affiliated Schools on Method, Content, and apparatus, it aims also at providing fully trained teachers who shall carry back to these schools, as masters, something of the idealism in Life and Letters, that the College aspires to teach.

When in 1929 Yale-in-China decided to join the College it brought with it a long tradition of sound Scientific work. It was therefore decided that this Mission should undertake the upkeep of the School of Science, which now bears its name. The School was in its inception, therefore largely maintained by Yale Alumni in America. Recently, however, the Chinese Yale graduates have commenced the raising of an endowment of $50,00.00 Mex. to aid the American grants now so sadly depleted by the Depression. As the School numbers among its members American and British mathematicians, and a British chemist, it can be said to be truly international.

The Yale-in-China School of Science is divided into three Major Departments: Biology, Chemistry, and Physics, which also offer Minors, together with the Minor Department of Mathematics. Each of the three Major departments is under a member of the Professorial staff, who happens at present in each case to be Chinese, and in the case of Physics and Chemistry he is assisted by a senior man.

The College has been opened on a compound lent by the American Church Mission, originally the site of Boone University. This has meant that such buildings as were originally in situ have been altered to house the rapidly-growing departments of the School. Whereas in 1930-1, the number of Science students was 15, this has now been increased fourfold. The definite programme laid down by the College limits its expansion, by regulated growth, to a maximum of 300 students, approximately one half of whom will be Science students. The present buildings cannot hope to house this number. However good the equipment provided, however popular the College, expansion is stopped by the physical impossibility of housing more students in the laboratories.

At present the three Major departments occupy buildings originally intended by Boone University for other purposes. The Biology and Physics Departments are in the two wings of Ingle Hall, a building whose architect designed it as a dormitory, while the Chemistry Department occupies the upper floor of the Administration Building, some fifty years old.

STAFF

DEPARTMENT	1933-4	1937-8
Biology	1 Assistant Professor	1 Professor
	2 Instructors	2 Lecturers
	2 Collectors	2 Instructors
Chemistry	1 Professor	1 Professor
	1 Assistant Professor	2 Asst. Professors
	1 Instructor	2 Instructors
	1 Assistant	1 Technician
	1 Technician	
Physics	1 Professor	1 Professor
	1 Asst. Prof. (on leave)	1 Asst. Professor
	1 Lecturer	1 Lecturer
	1 Instructor	2 Instructors
	1 Technician	1 Technician

N. B.: In each department, assistant would be engaged as required.

COURSES OFFERED

(exclusive of seminars)

DEPARTMENT	1932-3	1937-8
BIOLOGY	Year : General Biology	Year : Plus,
	General Zoology	Comparative Anatomy
	General Botany	General Physiology
		Genetics
	Term : Invertebrate Zoology	Term : Plus,
	Vertebrate do	Experimental Embryology
	General Embryology	Comparative Histology
	Bacteriology	Cytology
	Histology	Physiological Zoology
	Genetics	Ecology
	Twinning	Animal Behaviour
		Evolution
		Entomology
		Parisitology
		Protozoology
		Plant Morphology
		Plant Ecology
		Systematic Zoology
CHEMISTRY	Year : General Chemistry	Year : Plus,
	Pandemic Chemistry	Technical Analysis
	Advanced Physical Chemistry	Industrial Chemistry
	Term : Elem. Physical Chemistry	Term : Pandemic Chemistry
	Elem. Quantitative An.	Thermodynamics
	Adv. do An.	Electrochemistry
	Adv. Organic Chemistry	Adv. Inorganic An.
	Organic Analysis	History of Chemistry
		Elem. Organic Chemistry
PHYSICS	Year : Elementary Physics	Year : Plus,
	General Physics	Advanced Heat
	Advanced Mechanics	Elec. Oscillations
	do Light	Applied Electricity
	do Elec. and Magnetism	Theoretical Physics
	do Physical Lab.	Scientific Photography
	Term : Radio Communications	Term : Precision of Measurement
	Modern Physics	

The number of students majoring in Natural Science is 67, 55% of the College roll. The total number of student hours is 847, including Science Minors and extra-Departmental students taking Science courses. In the case of Freshmen, the laboratories are in practically every case too small to accommodate the class.

The equipment at present in use in the laboratoratories of all Departments compares favorably with any university in China for the present enrolment, yet the lack of a suitable building means inevitably that a large number of students choose colleges whose physical plant leads them to suppose a higher standard of scholarship.

Circumstances have reduced the College to the policy of purchasing equipment rather than spending grants on buildings, however urgent the latter need may be, with the result that at present it is in possession of equipment adequate to the small classes of advanced students, but insufficient to meet the needs of classes of the size which it is anticipated will develop from the present Freshman Class. The Biology and Physics Departments are considering the erection of temporary "side" buildings, pending the erection of a Science Block. This means that the two Departments can expand to scheduled capacity, though not without handicaps, over the next five years, provided further apparatus can be purchased. The Chemistry Department has sufficient facilities for its present use, but cannot offer further courses, nor can it increase its number of students, because its position prevents further expansion by a temporary building. Only a new building will enable the School to house its present equipment in all Departments to better advantage and provide for its urgent needs for natural growth.

The work of the School, however, is not confined to teaching. Research in the Natural Sciences is one of the unexplored fields in China. A certain amount of research work has been turned out by the School since its inception, as far as equipment has permitted, and as half of its teaching staff hold Doctor's Degrees, it is qualified to do more. Research work during the next year or so, however, must be limited to graduation thesis work, as advanced work is practically impossible, owing to the fact that no Departments have complete sets of back numbers of scientific literature. Current literature is paid for by cutting out the purchase of much needed apparatus in the annual budgets, but no Department can bear the cost of purchasing sets of journals out of its running expenses.

Furthermore, the services of the College ought to extend beyond its walls. China offers at present unlimited opportunities for Applied Chemistry. An Industrial Chemistry Laboratory would not only provide students with factory practice, but would also enable a certain quantity of chemicals to be made, at present only obtainable at prohibitive cost from abroad. It is hoped, if such a laboratory could be built, to co-operate with Chinese industries in various problems and projects When the Canton-Hankow Railway is completed in the near future, the Wu-Han cities will develop into perhaps the largest industrial centre in the country and the services of the College will be increasingly called for.

The fauna and flora of Central China offer another unexplored field for research and the Biology Department plans to meet this opportunity by establishing a Biological station for the exchange of specimens and for the supplies of biological materials and preparations for various schools and colleges in China and abroad.

TYPICAL RESEARCHES

BIOLOGY:	An anatomical study of Pseudobagrus aurantious Temm and Schegel. A study of the protozoa in the freshwaters in the vicinity. The relation of the embryonic axis to the egg axis of Wuchang hen's egg.
CHEMISTRY:	On Induced Reactions. Micro-determination of Copper and Iron in Oysters.
PHYSICS:	Experiments on the Dielectric constant of Tung Oil. Magnetic Survey of China. (in conjunction with the Carnegie Institution)

STUDENT HOURS (Exclusive of Thesis work)

	Freshmen	*Sophomores*	*Juniors*	*Seniors*	*Total*
Biology	56	83	24	8	171
Chemistry	155	40	50	7	252
Physics	84	71	41	39	235
Maths	111	54	15	9	189
Total	406	248	130	63	847

PRESENT AND REQUIRED ACCOMMODATION

	Biology	*Chemistry*	*Physics*
Lecture Small	— 2	— 1	1 1
Theatre Large	— 1	1 1	— 1
Labs. Main	1 1	1 1	1 1
Sectional	2 4	2 6	4 6
Research	1		
Office and Staff working rooms	2 5	3 4	2 4
Photographic room	— 1	1 1	1 1
Library and reading room	— 1	— 1	— 1
Special	Pond Animal House	Industrial Chemistry Lab.	Larger Machine shop

SCHEDULED REQUIREMENTS 1933-7 (5 years)

GENERAL
- Science building G$50,000
- Gas Plant 3,000
- Constant source of Electricity
- Artesian Well
- Back numbers of periodicals 3,500
- Increase in amount of equipment, reagents etc

BIOLOGY
- Total value required 11,000

e.g. Edinger apparatus. Microscopes and accessories.
Epidiascope—projection lantern.
Photomicrographic outfit. Microtome and accessories.
Models and demonstration specimens for zoology, comparative anatomy embryology, and botany.
Equipment for physiology and ecology.

CHEMISTRY
- Total value required 12,500

e.g. Electrical apparatus, furnaces, thermostats etc
Heavy miniature plants for Industrial Chemistry
Technical and Quantitative Analysis Apparatus

PHYSICS
- Total value required 11,750

e.g. Apparatus for Applied Electricity
Micro-photometer
Spectrometer and Quartz Spectrograph
Dividing and Milling engines
Photographic Laboratory

PRESENT APPROXIMATE VALUE OF EQUIPMENT (BOUGHT SINCE 1929)

BIOLOGY G$10,000 CHEMISTRY G$12,500 PHYSICS G$13,500

ESTIMATED EXPENDITURE

	Biology	*Chemistry*	*Physics*	*Total*
1933-4	G$ 2700	3489	2757	8946
34-5	3000	3018	3007	9025
35-6	3500	3350	3663	10513
36-7	3700	3550	3765	11015
37-8	3600	3690	3930	11220
Total	16500	17097	17122	50719
Equipment only	11000	12500	11750	35250
Books	2200	1250	1100	
Running expenses	3300	3347	4272	

The machine shop has made some elementary apparatus for the Physics Department which would cost considerably more if imported from abroad. It has made a limited amount of equipment for the other Science Departments and for some of the affiliated Middle Schools. At present it stands in urgent need of more room and machinery in order to provide machine shop instruction for the students and render better service to the community.

As the teaching of Science in the Middle Schools, both Government and Private, is poor, the School aims at producing students of the highest calibre, in the hope that teachers graduated from Hua Chung may not only help to popularize Science in this vast region of four provinces but also raise the standard of students graduating from the Middle Schools and entering College. Close affiliation with twelve Senior Middle Schools and ten Junior Middle Schools in the Central China region alone, places the College in a unique position to do this kind of work. This has meant aiming at reaching the highest possible standard in the subjects taught rather than teaching over a wide range of subjects.

Opportunities for development and service in the Central China region are most challenging. If financial assistance is given to the College for the erection of a Science building and for the provision of better facilities for laboratory work and research, we would feel confident that it would be able to do full justice to its position as a private institution holding up the highest possible standards for the intensive training of a well-selected number of students.

Francis C. Yü Wei

President.

Paul Chi-Ting Kwei

Dean.

P.T.O.

Further information may be obtained from

Dean of the School of Science,
Hua Chung College, Wuchang, China. or

Executive Secretary,
Yale-in-China, 905A Yale Station, New Haven,
Conn., U.S.A.

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June 9, 1941.

President Francis C. M. Wei
Hua Chung College
Hsichow, Yunnan.

My dear Mr. President:-

In compliance with your request to prepare a report on the School of Science in our college for the year 1940-41, the undersigned has the honor to submit it under the following main headings:

1. Faculty of the School of Science
2. Enrolment of Students
3. Courses offered and the Teaching Load
4. Research Projects and Other Activities
5. Appropriations and Grants
6. Additional Equipments, Books and Journals
7. Problems and needs of the School.

1. Faculty of the School of Science.

Even with the termination of the appointment of Dr. B.K.Chen, professor of Biology, the teaching load of each staff member in the Department of Biology has not been beyond the maxium, i.e., 14 credit hours. However, the quality of the instruction might have been deficient. We have explored all possibilities to secure a competent teacher for the Biology Department, but for one reason or the other no such person could be found until recently Dr. Sidney D. Hsiao has definitely promised to join our Biology Department in September, this Fall. Dr. Hsiao was one of the instructors in our Biology Department from the Summer, 1929, to the Summer, 1931, and from the Summer, 1933, to the Summer, 1935. He was responsible for starting our Department of Biology. He went to Yenching University to study for his Master degree in 1931-33. In 1935, he won a Tsing Hua Fellowship to pursue advanced studies in Harvard University along the line of Oceanography. He received his Ph.D. degree in Harvard in 1938, and has been continuing his work there as a scientific Research Fellow of the Rockefeller Foundation. Therefore next year the staff in the Biology Department will be better provided.

With the new appointment of Dr. Ck K. Cheng, Assistant Professor of Physics, the Physics Department has been greatly strengthened. Dr. Cheng, B.S., 1935, was an assistant in the Physics Department in 1935-36 and went to the University of Toronto for further studies. He received his Ph.D. Degree in Toroto in 1939 and was the Head of the Physics Department of Chiloo University in 1939-40.

Among the senior staff members of the school, so far as the knowledge of the writer goes, this is the first time to make an appointment to our own alumnus. It is the opinion of the writer that more such appointments should be made, whenever it is possible, because our own alumnus will never be less loyal to his or her alma mater than one from an other institution.

The list of the Faculty members of the School is as follows:

Tsoh-Wu Zee, Dean of the School of Science
B.S., M.S., (Soochow); Ph;D. (Chicago).
Department of Biology:
Kang-hua Yuh, Professor and Acting Head of Department
B.S. (Shanghai); M.S. (Chiaago).

Hsien-fu Wu, Junior Lecturer, B.S. (Hua Chung).
Pei-Shen Chen, Junior Lecturer, B.S. (Hua Chung).

Department of Chemistry:

TsoheWu Zee, Professor and Head of Department
B.S., M.S., (Soochow); Ph.D. (Chicago)
Tse-Gung Djang, Professor
B.S.(shanghai); Ph.D. (Johns Hopkins)
Wesley Shen-wu Wan, Professor
B.S.(Yale-in-China); Ph.D. (Yale)
Dji-Bin Hua, Junior Lecturer, B.S. (Hua Chung)

Department of Physics:

Richard P. Bien, Professor and Head of Department
B.S. (Brown); D.Sc. (M.I.T.)
Paul Chi-ting Kwei, Professor (on leave)
B.A. (Yale); M.S. (Cornell); Ph.D. (Prinecton)
David S. Hsiung, Professor
B.S. (Heidelberg); M.S.(Cornell); Ph.D. (Chicago)
Chien-Kuo Cheng, Assistant professor
B.S. (Hua Chung); Ph.D. (Toronto)
Pu-ho Liu, Assistant, B.S. (Hua Chung)
Chung Fu Ying, Assistant, B.S. (Hua Chung) Part time.

Department of Mathematics:

John Leslie Coe, Professor and Head of Department (on leave)
B.A. (Hamilton); M.A. (Michigan)
ChiOsen Shen, Assistant Professor, B.S. (North Eastern National);
Post Graduate work (Berlin)
Chung Fu Ying, Assistant, B.S. (Hua Chung) part time.

2. Enrolment of Students

Major in	Senior	Junior	Sophomore	Freshman Fall	Freshman Spring
Dept. of Biology	1	5	3	1	1
Dept. of Chemistry	0	3	2	4	2
Dept. of Physics	3	5	1	0	0
Total	4	13	6	5	3

Grand Total (Fall Term) 28 (30% of the total college enrolment)
(Spring Term) 26 (30% of the total college enrolment)

The dropping of enrolment in the School of Science was probably due to our high standards in admitting new students. Last summer, there were more than three hundred applicants to take our entrance examinations. One third of them was to major in science. In looking over thier entrance examination grades most of them were rejected because they were poor in English and in Mathematics. By the establishment of our pre-freshman class, the future enrolment is expected to be higher.

3. Courses Offered and the Teaching Load

With the dropping of enrolment, the teaching load has not been and can not be reduced because all courses required by the Ministry of Education have to be offered, except in the Chemistry Department as there is no senior this year in the Department.

Courses Offered:-

Department of Biology	Credit Hours
1. General Biology	4-4
2. Biology for Non-Science Students	3-3
3. Biological Technique	2
4. Comparative Anatomy	3-4
5. Animal Physiology	3-2
6. Plant Physiology	2-2
7. Plant Morphology	3-3
8. Twinning	2
9. Entomology	3
10. Invertobrate Zoology	2-2
11. Seminar	2-2
12. Special Problems	2-2
13. Histology	-4
	30-28

Department of Chemistry	Credit Hours
1. General Chemistry	4-4
2. Qualitative Analysis	5
3. Quantitative Analysis	-5
4. Organic Chemistry	5-3.5
5. Junior Organic Chemistry	3.5
6. Physical Chemistry	4.5-4.5
7. Industrial Chemistry	3-3
8. Junior Quantitative Analysis	3.5-3.5
9. Organic Analysis	-4
	28.5-27.5

Pre-Freshman Chemistry

Department of Physics	
1. General Physics	4-4
2. General Physics Laboratory	1-1
3. General Physics (survery course)	3-3
4. Photography	2-
5. Mechanics	4-4
6. Light	3-3
7. Intermediate Laboratory	1.5-1.5
8. Advanced Laboratory	3-3
9. Introduction to Theoretical Physics	3-3
10. Theory of Electricity and Magnetism	3-3
11. Electric Oscillations & Electric Waves	3-3
12. Special Problems	2-2
13. Seminar	1-1
14. Radio with Lab.	-45
15. Sophomore Electricity and Magnetism	3
16. Senior Electricity and Magnetism (Make up)	3
	39.5-36

Pre-Freshman Physics

Department of Mathematics	
1. Advanced Calculus	3-3
2. Vector Analysis	3-3
3. Mathematics for Economic Students	3-3

4. General Mathematics	3-3
5. Differential Equation	3-3
6. Pre-Freshman Mathematics	
	15-15

Teaching Load:

	Fall Term(creditHrs.)	Spring Term (Credit Hrs.)
K.H.Yuh	13 and one thesis student	8&one thesis student
H.F.Wu	10	12
P.S.Chen	7	8
T.W.Zee	8.5	7.5
T.G.Djang	6.5	6.5
S.W.Wan	7.5	7.5
D.B.Hu	6	6
R.P.Bien	9 & 3 thesis students	9 & 3 thesis students
David S.Hsiung	10.5	8.5
C.K.Cheng	12.5	9.5
P.H.Liu	4.5	9.0& Pre-Freshman
C.F.Ying	7.0	7.0& Pre-Freshman
C.S.Shen	9.0	9.0

4. Research Projects and other Activities

Research Projects:

There are four seniors working on special problems. The titles of their these are as follows:

Chang Hsiow Tsu--The Photogenic Organ of the Local Lampyrids.
John Yang The Impulse Generator
Hwang Gih A Study of Cathode Sputtering Conditions and products.
Hwang Hsin Yu A Study of Edge Effect of Parallel Plate Electrodes.

In spite of the difficulties and inconveniences, practically all senior members are very enthusiastic in doing some formm of research, not only for their own interest but mainly for the needs of the community in this time of emergency. A statement prepared by Professor Richard P. Bien, which is to be quoted below indicated that such research projects are being carried out in the Department of Physics.

"Dr. Hsiung's project on gas generator study is now much more than plans on paper. The generator built of bicks with iron parts cast locally under his expert direction is rising four feet high above ground at the time of writing. When these studies bear fruit, it will become a great economy to all small plants which find the fuel supply problem a great handicap. In this connection it might be mentioned that no less than two leading institutions of learning wrote for Dr. Hsiung's plans for our power plant in use at present. Dr. Cheng is busy with the study of grid-loak making. An oven is buildt. The press is on the way to completion. When grid-loaks are successfully made, they will be of importance for radio communication in both military and commercial sense. Dr. Bien is ready for measurements on thermionic emission as soon as summer vacation begins, the required impulse generator has been successfully completed by Mr. John Yang, a senior. His project of studying the use of bamboo poles to take place of cast iron piping for low pressure use in the transmission of water or gas will be started next year, delay during the current year owing to a lack of funds and tie-up in the machine shor for other researches."

In the department of Chemistry, with the ample funds from Mr. Thorne and from Mr. Chambers Chow and the special grant from the Administration of the British Boxer Indemnity Fund, Professor Wesley S.W.Wan with the assistance of Mr. D.B.Hu is attacking several problems of research. They have sent you a detailed report on their work which is not to be repeated here.

The writer has been continuing his work on Chinese drugs. Owing to the lack of ear-marked funds to purchase the necessary equipments such a combustion furnace and its accessaries, and tie-up of his time in attending trifle matters in the Chemistry Department, the progress is very slow. However, he did isolate a kind of crystals from the root of Asarum Forbesi, a local drug, its water solution being used by the natives for curing goitre, malaria, etc. This crystal and the crystal from bamboo leaves which he prepared last year have been sent to Dr. K.F.Tseng, Research Director of New Asia Drug Manufacturing Factory, Shanghai, for combustion analysis. With the arrival of the analytical data, he expects to draw conclusions on his work.

Owing to the heavy teaching load during the current year the staff member in the Department of Biology found no time to do research. Nevertheless, a piece of work on the unit character variation in ducks concerning the inheritance of white spotting has been completed by Mr. Yuh Kang Hua.

Other Activities:

The radio club is as active as usual in rendering service to the college. One or two student members usually staid on till 11:30 p.m. to receive broadcast war news in Chinese. It is certainly remarkable of their spirit of service.

The science club and the Biology club held their regular meetings during the year. Popular lectures and excursions are their main functions.

The writer has helped the local people in the technical part to initiate a sugar refinary factory in Ing Chwan about 200 li east of Hsichow. He has also been serving at the invitation of the Chinese Chemical society on the Committee of Chemical Research and as an editor or "Chemistry" published monthly by the Society.

From the local gentries the Department of Chemisty has received many samples of minerals, herbs, seeds for analysis. A more friendly feeling between Hua Chung and the local people is hereby cultivated.

5. Appropriations and Grants

Appropriations:-

	Budgeted		Receipt	
Yale-in-China Association	N.C. $	U.S.$	N.C.$	U.S.$
	48,000.00	4,000.00		5,000,00
Reformed Church	3,540.00		3,540.00	
Laboratory Fees	1,000.00		600.00	
From the College Budget	660.00		660.00	
	53,200000	4,000.00	4,800.00	5,000.00

Grants:

From the Ministry of Education, for Jan. To Dec., 1940, a grant of NC$12,000 was received.

* By action of the Senate on April 14, 1941, the payment of laboratory fees is suspended during the war period.

6. Additional Equipments, Books and Journals.

About $900 US currency have been spent on new books and journals. 150 volumes of books and 40 kinds of standard scientific journals have been ordered. Chemicals and equipments valued at U.S. $2,000 have also been ordered from the United States through the New Haven Office. Materials like glass ware, biological supplies, machine shop equipments, etc., amounting to more than NC$20,000 have been purchased in Kunming.

The above statement indicates that in addition to the current maintanence fund from Yale-in-China Association, the balance which is carried over from last year from the grants of the China Foundation and the Administration of British Boxer Indemnity Fund has also been spent to a large extent. The exact figure will appear in the Treasurer's report to you.

Among the additional equipments the arrival of the vacum tube making outfit for the physics Department is worthy to be reported.

7. Problems and Needs of the School

The school of Science has encountered many difficulties in past two years. It is the opinion of the writer that although the wounds are being gradually heeled up, special attention should be constatly paid towards such wounds in order to have them completely heeled up and progress may continue. We pray that this may soon come true.

The writer sincerely believes that cooperation among the colleagues is the manifestation of our best well fare of the College at heart and is one of the fundamental principles in education. With it, the problem of small enrolment of students and the problem of poor facilities for instruetions and reasearches are all easily solved.

The outstanding problem is, therefore, how to cultivate a spirit of cooperation among the colleagues. The one way out is probably to have more alumni on the staff ø/ of senior members. It does not mean to increase the staff. It refers to the case of replacement.

It goes without saying that in war times the School has been suffering all sorts of inconveniences. We are contented with whatever facilities available. We know that our finance only enables to mark time and it is useless to attempt the impossible in pushing forward any progressive educational program. We also believe that the goal of education in a Christian institution is to be the training of Men and Women rather than technical experts and scholars. Nevertheless, our high standards of learning should not be lowered and the following things have to be purchased:

1. A set of equipments for the bacteriological and parasitological laboratories.
2. A drilling and a planing machine.
3. An incubator heated by oil.
4. A combustion furnace and its accessaries
5. A drying oven

In the next year budget the above articles are not included. Special funds or the reserved fund will be resorted to

Respectfully submitted,
T.W.Zee (Signed)
Dean of the School of Science.

Coppy./DW

School of Science Report to the President, 1944-45. Copy

Mr. President:

I have the honor to submit the following report on the Yale-in-China School of Science, concerning staff, curriculum, student hours, student spirit, activities, research, School activities, societies, publications, Faculty research projects, projects in progress, results , departmental problems, difficulties and wants, and a short survey for the future.

I. Staff, curriculum, student hours:

It is my happy duty to report that the year 1944-45 marked a turning point in the school during these refugee years. All departments for the first time were fairly staffed, and a spirit of cooperation and research atmosphere xxxxxxxxxx revived. If it were not for the late arrival of Professor George Bien, Mr. Shen and Mr. Ma all of the chemistry department, and slenderness of the budget and other financial resources, much more might have been accomplished than at present.

A. Biology Department.

Professor Sidney Chi-ti Hsiao, Ph.D. Head of the Department.
Daniel Yuinling Chen, B.Sc., Lecturer in Zoology.
San-Chun Seng, B. Sc., Lecturer in Botany.

Course	Lecture	Lab.per.	credits	no.Students	Stud.hrs.	Teacher
101 General Biology	3	2	5	3	15	Hsiao and Chen
102 " "	3	2	5	3	15	" " "
105 College Biology	3		3	83	249	Hsiao
106 " "	3		3	62	186	"
201 Systematic "	1	3	4	1	4	Seng
208 Vertebrate Emb.	2	2	4	1	4	Chen
301 Plant Morphology	2	1	3	1	3	Seng
302 " "	2	1	3	1	3	"
331 Genetics	1	1	2	1	2	Chen
332 Cytology	1	1	2	1	2	Seng
401-2 Thesis			4	1	4	Hsiao
12 courses			38		487	

B. Chemistry Department.

George S. Bien, Ph.D., Professor and head of the department.
Pan-wen Shen, B. Sc., Lecturer.
Foo-hwa Chu, B.Sc., Lecturer.
Tsen-Chi Ma, B.Sc., Junior Lecturer.

Course	lect.	lab.per.	credits.	no.stud.	Stud.hrs.	Teachers.
101 Gen. Chem.	4	1	5	27	135	Chu
102 " "	4	1	5	17	85	Bien and Ma
203 Qualitative Ana.	2	3	5	6	30	Chu
204 Quantit.Analysis	2	3	5	6	30	"
205 Organic Chem.	3	2	5	11	55	Bien
206 " "	3	2	5	9	45	Shen
311 Adv.Inorganic	2		2	2	4	Bien
312 " "	2		2	2	4	"
313 Tech.Analysis	2	2	4	1	4	Shen
314 " "	2	2	4	1	4	"
318 Chem.Themro.	3		3	3	9	Bien
321 Indust.Chem.	3		3	1	3	"
322 " "	3		3	1	3	"
Seminar			4	1	4	"
Thesis			4	1	4	"
15 courses			59		419	

C. Mathematics Department.

John L. Coe, M. A., Professor and head of Department.
Chi-hsuin Shen, B.Sc., Graduate Studies Berlin University, Professor.

Course	Lect.	credits.	no. students.	student hours	teachers
Condition Math.	3	3	45	135	Shen
" "	3	3	29	87	"
	3	3	34	102	"
101 General Math.	3	3	22	66	"
102 " "	3	3	30	90	Coe
103 Calculus	3	3	22	66	"
104 "	3	3	5	15	"
105 Statictics	3	3	5	15	"
106 "	3	3	6	18	"
203 Diff. Equations	3	3	5	15	"
204 " "	3	3	4	12	Shen
301 Adv. Calculus	3	3	3	9	"
302 " "	3	3		630	
12 courses		36			

D. Physics Department

Richard P. Bien, D. Sc. Professor, Head and Dean of School
Chung-fu Yin, M.S. (Graduate School diploma, Tsing Hwa Univ.) Lecturer
Tao-Ngo Wei, B.S. Lecturer
Chin-ju Lin, B.S. Junior Lecturer.

101 General Physics	4	4	25	100	Bien
102 "	4	4	18	72	"
101L Lab		1 1	24	24	Lin
102L "		1 1	20	20	"
202 Radio	3	1 4.5	4	18	Wei
203 Elect. Mag.	3	3	4	12	Bien
205 Mechanics	4	4	4	16	Wei
206 "	4	4	4	16	"
211 Interm. Lab.		2 3	4	12	"
212 "		1 1.5	3	4.5	
209 Heat, Therm. Kin. Theory	3	3	3	9	Lin
210 "	3	3	3	9	"
Prec. Measurements	2	1 2	4	8	Bien
301 Adv. Lab.		2 3	3	9	Ying
302 " "		2 3	3	9	"
303 Theor. Physics	3	3	3	9	"
304 "	3	3	2	6	"
313 Modern Physics	3	3	1	3	"
314 " "	3	3	5	15	Bien
315 Adv. Elect.	3	3	4	12	"
316 " "	3	3	4	12	Ying
Seminary		3	3	9	"
Thesis		4	1	4	"
		4	1	4	Bien
13 courses		70		403.5	

The enrolment in the School was still small. The lower classes in both the Chemistry and Physics departments showed somewhat a material increase. Because of the small enrolment, student spirit naturally could not be expected to be exuberant. But hard working tradition in the School was maintained. This explains annually the rather large drop in course enrolment, particularly in the lower classes.

II. Student Activities. The Biology Club sponsored two public lectures and two picnics, and ran a wall paper publication. The Science Club, which ran a wall-paper Science Digest, sponsored two picnics, and a tea party with a lecture by Dr. Joseph Needham on his visit to Hsichow. The Radio Club collaborated with the Science Club in running the Digest. Three public lectures were also given, sponsored by the Science Club.

III. Faculty and Student Research and Departmental Cooperation:

A. Biology: Respiration of Margarya Melansides, Hsiao and student
First part on CO_2 completed.
Limnological study of Erh Hai, progress very slow. Limitation of time, physical energy, lack of financial support and assistance in personnel--Hsiao
Projected: Physical characteristics of Min Cha Students -- Chen

B. Chemistry: In progress:
The study of molecular structures by dipole measurements.....Chu
Preparation of Sodium hydroxide by causticizing Sodium Chloride with Silver Oxide. Bien and student.
Workability and MaCH of analysis purity ~~obtained~~ obtained. Data not complete.
Projected:
Properties of Tung Oil soaps. Its detertent effect, and application to lubricants..... Shen
Tung Oil Polymers and Walnut oil polymers..... Ma.
Boiling Point measurement of Electrolytic solutions as a means of finding dissociation constants... Bien..in cooperation with Physics Dept.

C. Physics: In progress:
The Bien-Wei Electronic switch... Bien and student.
Working range enlarged and reliability established.
Thermionic measurement of Shot effect..... Bien and Wei.
Theorectical measurement of parallel plates edge effect---- Ying.
Completed: Adsorption calculations by extending Bethe-wang methods... Ying
Adsorption calculations by applying Langmuir's third isotherm, and fitting with experimental data.... Lin.
Projected; Edge effect of Elliptical electrodes..... Lin.
Thermopile for small temperature difference reading. Bien and student with Chem. Dept.
Thermopile; automatic temperature recording together with pressure... Bien and student with Biology department.

As may be noted above, in some of the projects inter-departmental cooperation is achieved. To further closer cooperation, the Chemistry and Physics Departments ran their seminars jointly. For a small college, understaffed as at present, this is perhaps the only way to create sufficient intellectual stimulation for further research efforts.

IV. Difficulties, Wants and Survey for the future:

It is an irrefutable fact that, by and large, Freshmen admitted every year these last few year are of rather poor material, very ill prepared in English and Mathematics. But during this year, some departments like the Physics Department have been lucky in getting some adequately prepared freshmen, whose achievements compare favorably with good students of pre-war years. These students came from our affiliated schools of higher standards, and some from other better preparatory schools. If it be not out of ~~any~~ province to make a recommendation, it seems it should be our policy to attact good students on certificate from good schools, rather than placing the major reliance on extrance examinations held in Kunming and Hsiekow.

Staff spirit is excellent, and particularly the younger men are very eager to each tackle some problem for investigation. But with each department having one senior member a piece, intellectual help and stimulation is meager. When Dr. Needham was here last fall, he made the very pertinent remark, that the school needed urgently more senior staff members.

With old apparatus worn and chemicals consumed, order after order for replacements have been given, but during the year, outside of a very little quantity of chemicals and some B batteries, the whole school received practically nothing in the way of renienishment. This is making instruction and research increasingly difficult. It is honed that this situation may be remedied somewhat either by the arrival of orders placed through Dr. Needham's institute or by our own efforts from America and Kunming.

Dr. Hsiao is planning to have made in our own shop and laboratories a soil sampler. Lead alone required would cost somewhere near C$200,000. Still, it is my opinion that funds must be found by pooling possible resources of all the departments,

through further action by the finance committee,as lake soil investigation is not known to have been done elsewhere in China, and this may be the last year to find the college still situated near Erh Hai. The Chemistry department, by generosity of the British gifts, shall be in ample funds for their projects.

I have also both the honor and pleasure to report that Mr. Ying of the Physics Department has been appointed research assistantin Mechanics at Brown University, Providence, R. I. for the coming academic year. It is the school policy to encourage our younger members to seek opportunities for further research and study as soon as possible, with a view to their early return in strengthening the various departments to which they belong.The School recommended granting leave of absence to Mr. Ying with privileges of a member on leave to be extended to his family. It is our hope that all schools with the university might be doing similar things for their junior staff that within five or six years we may have built up our own senior staff in this way, without always the uncertainty as to interest personality and idocyncrasies that one has to consider in inviting a new senior member to the college with a view to long term appointment.

It may not be out to place to say a few words concerning the future, particularly as the war is nearing an end. The School hopes for adequate rehabilitation funds at a minimum of US$10,000 for each departments (Mathematics, say one-third).And if the ten year plan is to be adopted in all sincercity and earnestness, adquate funds for a sufficient beginning to be made for permanent programs for research and instruction be provided. For a workable minimum, an equipment funds of US$15,000 for each department should be secured, though the moneys need not be spent all at once. With adequately equipped laboratories,it ought to be simpler to find maintenance money instead of begging everywhere every year for odd funds which are never sufficient to start a real program but just enough to kindle dissatisfaction and dampen enthusiasm for research in earnest, as has been the School's experience ever since the reopening of Hua Chung. At present all departments have definite plans, and the above estimates were not given at random guesses. Given facilities to realize these plans, in three years' time, with the younger members returning from abroad and four or five good papers published in the fields chosen by the departments, the School need never fear competition from any other strong university in this country, be it governmental or missionary.

In conclusion, I must repeat again the yearly hope that the Mathematics department may be made into a major department, which will not help only in adding a major course, but also in strengthening the other departments, particularly Physics and Chemistry.

Respectfully submitted,

Richard P. Bien, Dean. (Signed)

In the year of Grace, 1945, June the twenty-sixth.

June 28, 1947.

Annual report for the Yale-in-China School of Science, 1946-1947.

Sir:

Herewith I am submitting the annual report for 1946-47 under the following headings:

I. Student enrolment and courses offered
II. Faculty
III. Research and other activities
IV. Recommendations

I. Student enrolment and courses offered: Sharing the general increase in enrolment of the whole university, enrolment in the Yale-in-China School of Science rose to 110 which was approximately twenty five per cent of the total (447). It was particularly encouraging that the Biology Department had its proper share. For the first time in many years the proportion of students in the three major departments begins to look normal. This twenty five percent ratio is a healthy figure for the school to maintain, since in effect the School of Arts really embraces the embryonic school of Commerce, and we have in effect four schools in this university.

The Biology Department without a senior class managed with offering 8 courses each term. Chemistry offered 13 each term, and Physics 15 and 14 each term.

A table showing the statistics in greater detail is appended below:

	First Term (enrolment)		Second Term
Biology	13		14
Chemistry	40		38
Physics	57		46
Total:	110		98
	447	University total	384
	24.6%	" "	25.5%

Courses Offered:

Course number	Class Periods Lect.	Lab.	Number Students	* *	Course number	Class periods Lect.	Lab.	Number Students
Biology								
101	3	2	17		102	3	2	12
105	3		9		106	3		9
201	3	1	4		202	3	1	4
203	1	1	2		204	3	1	3
205	3	2	4		206	3	2	4
					208	3	1	2
301	3		1		302	3		1
341	3		2					
343	2	1	4		344	2	1	4
Chemistry								
101	3	2	30		102	3	1	24
101A	4	1	45		102A	3	1	33
103	3		14		104	3		3
203	3	2	7		204	2	2	8
205	3	2	6		206	3	2	7
301	4	1	4		302	4	1	4
205A	3		2		310		2	3
311	3		2		312	3		2
313	2		6					
317	3		5		318	3		5

321	1		2	322		1	2
337	1		5	338	1		5
				340	3		6
401	2		5	402	2		5
Physics							
101	4		71	102	4		50
101L	1		71	102L	1		50
103	3		12	104	3		10
203	3		17	202	3	1	13
205	4		12	206	4		11
207	3		3	208	3		3
209	3		3	210	3		3
211		3	11	212		1	10
213	2		5				
301		3	2	302		3	2
303	3		3	304	3		3
307	1		3	308	1		3
313	3		3	314	3		3
315	3		3	316	3		2
401	2		3	402	3		2
Mathematics							
101A	3		32	102A	3		31
B	3		41	B	3		36
103A	3		50	104A	3		22
B and C	3		37	B and C	3		30
203	3		18	205	3		17
301	3		3	302	3		3
305	3		3	306	3		3

All three major departments offered courses specially for students in other schools, e.g. Biology 105-106, Chemistry 103-104 and Physics 103-104.

With the increase of senior staff in the Chemistry department a course on food chemistry was also added to the curriculum this year.

II. Faculty:

Dr. Sidney C.T. Hsiao, Head of the Biology Department, went on leave of absence, as he received a State Department appointment for travel, and a fellowship at Yale University. This left the department with Mr. Pi Lieh-cho, lecturer, as the only remaining member. Fortunately, it was possible to secure the appointment of Dr. Henry Tsung-tse Li, as acting Head and professor, Dr. Sen Tsen as half-time professor, and Miss Chang Pao-cheng (Mrs. Yang) as junior lecturer. The department functioned efficiently under the able leadership of Dr. Li with Herculean help and service contributed by Mr. Pi, particularly when he was one man in the department.

In the chemistry department, Dr. C. T. Ho was appointed as professor of organic chemistry, and Dr. Lilian Weidenhammer arrived in October as professor, also. As a result the chemistry department became the strongest department in the school. It was possible to add some new elective courses and also to further enhance the spirit of scholarly research. Mr. Chu Fu-hua, having passed the government examinations for privately supported students for study abroad is leaving for Yale University this summer.

The Physics department failed to secure the appointment of either of two scientists from England. As a result, when I go on sabbatical leave there may be no senior staff member in the department. Dr. Sheng Shi-ying may yet be persuaded to accept our appointment if her health permits. Failing this, part-time service from physicists in the National Wuhan

University may have to be secured.

Mr. Ying Chung-fu and Mr. Lin Ching-ju were designated number 3 and 4 for the Huachung scholarship 1947-1948 and number 1 and 2 for 1948-1949. Mr. Lin also was recommended for the Associated Boards Fellowship. There is a possibility that Mr. Ying may be able to go to Brown University. That will further deplete the number of staff.

As Mr. Coe was going on his sabbatical leave in February 1947, it was fortunate that Mr. Hu Lo-teh was appointed assistant professor in the mathematics department. Owing to the large size of the classes, services of Miss Hwang Chieh (Mrs. Y.H.Yang) were secured to meet the need of two or three sections for the Freshman mathematics courses.

A list of the staff of the department is appended below:

Biology:
- Dr. Sidney C. T. Hsiao, Head, professor (on Leave)
- Dr. Henry T.T.Li, acting head, professor.
- Dr. S. Tsen, professor.
- Mr. Pi Lieh-cho, lecturer
- Miss Chang Pao-cheng(Mrs. Yang) junior lecturer.

Chemistry:
- Dr. George S. Bien, head, professor.
- Dr. C. T. Ho, professor.
- Dr. Lilian Weidenhammer, professor
- Mr. Chu Fu-hua, lecturer.
- Mr. Chang Tse-hsiang, junior lecturer.

Physics:
- Dr. Richard P. Bien, Head, professor.
- Mr. Ying Chung-fu, lecturer.
- Mr. Yang Yo-han, lecturer
- Mr. Lin Ching-ju, lecturer.
- Mr. Chao Yo-hsien, machinist.

Mathematics:
- Mr. John L. Coe, head, professor.
- Mr. Hu Lo-teh, assistant professor.
- Miss Hwang Chieh(Mrs. Y.H.Yang) lecturer, part-time.

III. Research and other activities.

It has already been reported that since Dr. Hsiao's return the atmosphere for research was created, and all departments were occupied with some problems which were somewhat of fundamental interest. It is owing to such an atmosphere that in spite of war conditions in Hsichow, Mr. Lin Ching ju produced a paper on absorbtion and Langmiur's third isotherm, Mr. Chu Fu-hua had an article sent to the Journal of Chemical Education, and even Mr. Su Sze-hsin, a senior had a paper published in that Journal.

At the time of this report, Dr. Tsen has already started his studies on local incubation methods. Dr. Li and Mr. Pi are both getting ready for zoological and botanical collection trips. The Chemistry department produced a new salt, and are embarking on new measurementssof diffusion in relation to chemical reactionin liquids. The Physics department has just made a report on its measurements of the Flicker and the Schrot effects, largely the efforts of Mr. Y.H.Yang, and calculations on a simple theory presented by MR.C.F.Ying which measurements checked quite well with Johnson's older data by an indirect method of tuning circuits. Further studies of the oxide surface by means of fluctuation measurements are going on apace.

With more adequate equipment, and somewhat enlarged staff, it is not unthinkable that graduate schools in the country are to be compared with ours. However it is far from the intention of the staff of the school to offer graduate work. Rather it is proposed that more intensive research work according to definite long term programs should be adopted, so that real, serious contributions may be made to the scientific world. For this purpose

a number of assistants or teaching fellows should be appointed, and funds for such appointments found within the nearest future.

Student club acitivities are at present limited to the Biology club and the Science club. The Radio club has gone into hibernation owing to the lack of room assignable for the club by the Physics department, and the very much delayed arrival of the US Mark II type tank radio sets. An automotive club has been in the air for two years. Although Governor Wan promised the university two or three old trucks, nothing has materialised.

IV. Recommendations:

a. By the nature of their courses, science students generally need more time for preparation. For example, it takes more time to write a report on an experiment than writing a short English composition. The report requires drawing, long calculation and short composition on theory and discussion. A science student generally has two such reports to write a week. As a result students in other schools have somewhat more leisure. And it is impossible for the busier ones to ask the others refrain from an occasional game of bridge, when there are more than ten to a room. Noise is usally very upsetting. So Long as small rooms are not available to house our students, it is recommended that some way be found to put the busier students together in so far as can be managed.

b. Loyalty and a wonderful esprit de corps have been the distinctive features of all junior members of the staff. And in view of the need to build the departments with more senior staff, whom we know will carry on the tradition of the university, it should be the policy of the university to seek in every way and look for every means to obtain opportunity for advanced training for our junior staff.

Even with the national Wuhan University near by, the staffs of both universities are so small in number, that it is not easy to find two professors working in closely related fields. It is still necessary to maintain sabbatical leave in such a way as to enable a senior staff member to seek fresh stimulation and advice on work already under way in laboratories abroad in leading universities. This we know has been university policy in the past, but for fear of vacillation now, we joined the United Board, it seems appropriate here to reiterate, whatever weight such reiteration may carry, that the putting into practive of this policy is one of the urgent needs of the School of Science.

c. It is recommended that negotiations be resumed with Governor Wan for for the trucks verbally promised and if possible to ask for other enemy held electrical machinary, not in general use now, for the automitive engineering club to dissect and to learn the functions of such machinery as may be made available.

d. The Physics department suffered particularly heavily in having lost most of its demonstration apparatus. The Biology department may begin collecting again for specimens, and orders made during the year will enable it to carry on normal class-room instruction. Some funds, it seems, should be made available while I am abroad to attend to replacing these things, which did not appear in the lists submitted for the rehabilitation and 10 year plan.

e. It is recommended that at least two teaching fellows, outlined in 10 year plan and approved, and also told to be effective 1947-1948, should be appointed in each major department. Since this does not seem possible for the coming year, it is to be emphasised again, that this policy should be put into effect as early as possible.

f. This is probably the fifth time, but still necessary for the school to recommend again the the mathematics department should be made into a major department with emphasis on applied mathematics.

Respectfully submitted,
Signed: Richard P. Bien,
Dean.

ANNUAL REPORT OF THE YALE-IN-CHINA COLLEGE OF SCIENCE. 1947-1948

Sir:

I am submitting herewith a report for the College of Science for the year 1947-1948. The past academic year has been a hard year for the College with Dean Richard P. Bien away on his Sabbatical leave. We felt that we were in a ship without a skipper. However, I am grateful to report that we passed the year successfully through frequent correspondence with Dean Bien and the whole-hearted cooperation of all the faculty and staff members of the science college.

This report will be divided into five main headings: namely, I. Enrollment, II. Courses Offered, III. Faculty, IV. Research and Activities, V. Recommendations.

I. Enrollment

First Term

	4th yr.	3rd Yr.	2nd yr.	1st. yr.	Total
Biology	2	2	7	15	26
Chemistry	0	7	19	28	54
Physics	2	4	17	22	45
Total	4	13	43	65	125

Total enrollment in the university, --- 537
Percentage, science students in total enrollment, -----23.25%

Second Term

Biology	2	2	7	11	22
Chemistry	0	6	16	20	42
Physics	2	3	16	19	40
Total	4	11	39	50	104

Total enrollment in the University,---- -470
Percentage, science students to total enrollment, --- 22.13%

These statistics and the statistics in the Registrar's Office show that we generally have more than our share of students who start as freshmen but very few who really graduate with a B.Sc. degree. I do not think that this is a healthy sign for the college. Most of the first year students who o join the science college really do not know what they want in college and go into science simply because it is "more fun." Quite a number of these have very low aptitude in science and will eventually be dropped. There are, however, a few who are good science students who drop off at the end of either the first or the second year. These are the students who go into engineering or medicine. Personally, I feel that we should encourage the latter class of students to join us since we do give them a good foundation in the sciences before they embark on further studies in medicine or engineering. We must curb the "science craze" of the former class of students among the entering freshmen. As to how to do this, I will discuss under the heading "Recommendations."

II. Courses Offered

The Chemistry Department, without a senior class, offered 10 courses in the first term and 12 in the second. One of the courses in the second term was offered for biology or premedical students. The Physics Department offered 13 courses each term and the Biology Department 14 courses each term. The following is a summary of the courses offered.

Biology Department

Course No.	Title	Instructor	Lectures	Lab.
Biology 105-6	General Biology	Chang	3-3	-
" 121-2	General Zoology	Li	3-3	2-2
" 111-2	General Botany	Pi	3-3	2-2
" 205-6	Comparative Anatomy	Li	3-3	2-2
" 343-4	Invertebrates	Chang	3-3	2-2
" 241-2	Histology	Tseng	2-2	1-1
" 207-8	Embryology	Tseng	2-2	1-1
" 204	Technique	Li	2	1
" 349-50	Plant Taxonomy	Pi	3-3	1-1
" 351	Animal Taxonomy	Tseng	4	1
" 332	Cytology & Genetics	Tseng	4	1
" 337-8	Animal Physiology	Li	3-3	1-1
" 411-2	Seminary	Department	1-1	
" 401-2	Thesis	Tseng, Li	2-2	

Chemistry Department

Chemistry 101-2	General Chemistry	Weidenhammer	3-3	2-2
" 101-2A	" "	"	3-3	1-1
" 103-4	Essentials of Chemistry	Chang	3-3	
" 201-2	Analytical Chemistry	Weidenhammer	2-2	2-2
" 203-4	Organic Chemistry	Li	3-3	2-2
" 204A	" "	Bien	3-3	1-1
" 309	Organic Analysis	Li	2-2	2-2
" 311	Advanced Inorganic Chemistry	Bien	3	
" 312	Advanced Organic Chemistry	Li	3	2
" 321-2	Industrial Chemistry	Bien	3-3	
" 301-2	Physical Chemistry	Bien	3-3	1-1
" 326	Scientific German	Weidenhammer	3	

Physics Department

Physics 101-2	General Physics	Ying	4-4	
" 101-2L	General Physics Lab.	Hsiao		1-1
" 203	Electricity & Magnetism	Yang	3	
" 204	Radio	Yang	3	1
" 205-6	Mechanics	Hsiao	4-4	
" 211-2	Intermediate Lab.	Hsiao		2-1
" 209-10	Heat, Kinetic Theory & Thermodynamics	Bien	3-3	
" 315-6	Theory of Electricity & Magnetism	Yang	3-3	
" 313-4	Modern Physics	Ying	3-3	
" 301-2	Advanced Laboratory	Ying		2-2
" 303-4	Theoretical Physics	Yang	3-3	
" 307-8	Seminary	Department	1-1	
" 401-2	Special Problems	Bien, Yang	2-2	

III. Faculty

Dean Richard P. Bien spent the year at Brown University, U.S.A. as Visiting Professor in Physics on his Sabbatical leave. He spent part of his time doing research work at M.I.T. and part of his time teaching at Brown. His absence left the Physics Department terribly short-handed. We are grateful that the junior members of the staff in the Physics Department showed such wonderful spirit that it could carry on as usual.

Mr. Ling Chin-yu of the Physics Department received an appointment from the University of Alberta in Canada as a Reader in Mathematical Physics late last October. Since this was a wonderful chance for Mr. Lin to advance himself in the field of his choice, we felt that it was unfair to keep him. Mr. Hsiao Fu-yun was then appointed as a substitute. Mr. Hsiao made a very good substitute and did even better at directing the laboratory work.

In the Chemistry Department, Dr. C. K. Li was appointed as Professor of Organic Chemistry. Mr. Yen Deh-fu was appointed assistant in the organic chemistry laboratory and the stock-room.

There was no change in the Biology Department.

The following is a list of the staff in the various departments.

Biology: Dr. Henry T.T. Li, Head, professor
Dr. S. Tseng, professor
Mr. Pi Lieh-cho, lecturer
Miss Chang Pao-chen (Mrs. Yang), junior lecturer.

Chemistry: Dr. George S. Bien, Head, Professor
Dr. Lillian Weidenhammer, professor
Dr. C. K. Li, professor
Mr. Chang Chi-hsiang, junior lecturer
Mr. Yen Deh-fu, assistant(left at the end of 1st term)

Physics: Dr. Richard P. Bien, Head, professor (on leave)
Dr. George S. Bien, Acting head, professor
Mr. Ying Chung-fu, lecturer
Mr. Yang Yo-hang, lecturer
Mr. Lin Chin-yu, lecturer (left for Canada in November 1947)
Mr. Hsiao Fu-yun, junior lecturer
Mr. Chao Yo-hsien, machinist

Mathematics: Mr. John L. Coe, Head, Professor (on leave fall term 1947)
Miss Hwang Chieh (Mrs. Y. H. Yang), lecturer

IV. Research and Activities.

A. Research

Due to the heavy teaching duties of the faculty members, hardly any far reaching research project has been under way. The program on the investigation of thermionic emission in the Physics Department was continued. The senior research problems as required for graduation were conducted in the various departments with satisfactory results. They are:

1. A study of the Fluctuations of Emission of an Oxide Coated Filament --- Li Yung Chang
2. The Concentration Gradient of a Solution in a Centrifugal Field -- Lin Hsin-chien

3. A Preliminary Survey of the Mosquitos in Wu-jan Area--Wu I
4. An Anatomical Study of Seniperca --- Li Ying-pin

B. Activities.

The Science Club has been exceptionally active this year. It is the first time since I joined the faculty of Huachung that I have seen the Science Club so active. Two groups of special interest were organized--the radio group and the photography group. Both these groups have learned much and did much service to the student body. It is very encouraging to see how these young people go into these activities with zest. It is my sincere hope that more of these groups may be formed in the future and that their activities may eventually lead to scientific research out of their own volition.

V. Recommendations

1. It is recommended that some kind of a psychological test be given to the entering freshmen to ascertain their aptitudes in the various branches of study in this university. Thus, we may be able to filter out from the College of Science those students with low aptitude in the field of science from the beginning.

2. It is recommended that at least two teaching fellows be appointed in each department to carry on whatever research projects there are in the departments. I do not believe in asking senior students to do a very minor portion of a big project as his graduating thesis. The student does not learn much, and it is generally a waste of time since most of the data cannot be used for publication. Since all the professors have their pet problems waiting to be investigated and yet cannot do the research entirely by themselves because of heavy teaching loads, I strongly recommend that teaching fellows be appointed so that we may realize a small part of our dreams.

Respectfully submitted by
George S. Bien, Acting Dean (signed)
College of Science
Huachung University

ADDENDA

Courses Offered in the Mathematics Department

Course No.	Title	Instructor	Lectures
Math. 101	General Mathematics	Bien	3
" 102	" "	Hwang	3
" 103-4	Calculus (there were 2 sections)	Hwang	3- 3
" 201-2	Differential Equations	Hwang	3- 3
" 302	Advanced Calculus	Coe	3

(Note:--Advanced Calculus should have been Math. 301-2. It was not offered until Prof. Coe came back from his furlough. This class will complete the course next year by taking Math. 301.)