

二生相約拜師顏

歐陽藻

一九七二年十月七日費城陳志匡兄約同拜訪前南洋大學教授湯姆生先生於紐約「士達登」(STATEN ISLAND)島，事前函電相約該日前往，由湯教授先期函示詳細路程，以免誤時失途。十二時由此出發，水陸兼程，抵該島準時而到湯教授公寓。其公子及媳陪座，款以茶點，互叙離情，賓主至歡。湯教授以八四高齡，除局部失聰，右腿開刀後行步稍感不便外，餘均矍鑠，神志清明，不減當年。當場曾拍照數幀(見本期封面)，歸來特賦七絕四章誌念，願公諸友聲讀者，校友中亦有早年湯教授弟子或有同樣關懷之意。詩文工拙在所不計，特錄呈尚希 察政是幸。

其一

別來倏忽已三年

每念興居輒掛牽

相處雖云經水隔

事忙謀面屢遷延

其二

八四華辰先十日

二生相約拜師顏

路程逐節叮嚀咐

不減分時達寓前

其三

兩小無猜憶幼時

老來相遇感欽遲

市場結伴卿卿我

晚景堪娛殆心知

其四

卅五年前徐滙別

高談掌故叙離情

精神不減南洋日

百歲遐齡祝湯生

(一)湯教授十月十八日八四壽辰 (二)二生係一九二五級陳祖光一九二七級歐陽藻 (三)事前湯教授函示詳細路程 (四)準于下午二時到達門前 (五)湯生夫人去世多年童年女友現年八十二歲巧居鄰近 (六)每到市場辦料均由湯生接送。

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國立交通大學七十七週年校慶暨新建大禮堂破土典禮 **活動程序表**

- 10:45~11:00 大禮堂破土典禮
- 11:05~12:00 慶祝大會
- 10:45~15:00 遊園會暨土風舞
- 12:10~12:20 凌前校長八秩雙慶切壽糕
- 12:20~13:00 午餐
- 13:00~15:30 教學研究成果展覽
- 13:00~14:30 校友槌球比賽暨趣味競賽
- 14:40~15:40 清華交大足球籃球友誼賽
- 15:50 離校

國立交通大學七十七週年校慶典禮程序

- 一、典禮開始 (奏樂·鳴炮)
- 二、全體肅立
- 三、主席就位
- 四、唱國歌
- 五、向國旗暨國父遺像行三鞠躬禮
- 六、主席致詞
- 七、凌前校長代表捐贈交大教學基金
- 八、來賓致詞
- 九、唱校歌
- 十、禮成

地點：圖書館禮堂

國立交通大學新建大禮堂破土典禮

- 一、典禮開始
- 二、奏樂
- 三、主持人就位
- 四、破土 (同時奏樂)
- 五、禮成

地點：圖書館前

光臨

郭盛

南慶

宏球

謹訂

本年四月八日 (星期日) 為母校七十
七週年校慶特假新竹本學院舉行慶祝大
會暨新建大禮堂破土儀式 恭候

校慶快報

△今年母校七十七週年校慶，歲次癸丑，時值孟春，欣逢凌前校長竹銘先生八十華誕，同學會特訂於四月八日（星期日）在新竹母校舉行慶祝會。凌竹公親友暨交大海內外師生為表示祝嘏敬意，發起籌募交大教學基金，國內（包括日本、英國、東南亞地區）新臺幣貳百萬元，國外（包括美、加、巴西）美金五萬元為目標。訂於四月八日校慶會上由凌前校長代表捐贈。

△校慶日，臺北同學乘火車專車返新竹母校，八時半左右（明確時間尚待車次調度）在臺北車站前貴賓室集合候車，下午四時返回臺北。校慶籌備會文書組將個別郵寄通知登記。歡迎中、南部同學請來臺北參加。

△校慶節目暫定如下：
 新建大禮堂破土典禮、校慶慶祝會、捐贈交大教學基金、分享凌前校長華誕八層大壽糕、聚餐。

園遊會、土風舞、熱門音樂（在校同學）、梅竹友誼籃球、足球賽（交大對清華）女生組織啦啦隊加油、教學研究成果展出（在校師生）、槌球比賽、趣味競賽（校友組隊參加）
 △今年校慶節目最突出有趣的是校慶籌備會節目組精心設計推出的槌球比賽。槌球賽也許很多人不太熟悉，可是易學，有趣味，不費力氣，老幼咸宜。節目組特別組織了滬、唐、平、吳淞、新竹五隊，每隊五人，屆時將各顯身手，看看英雄屬誰？請臨場加油，共享歡樂。

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凌前校長自訂年譜已出版

凌前校長竹銘用去一年多時間，憑其平日日記及搜集資料，編寫年譜一鉅冊，敘述八十年來身歷之個人及有關國家交通及經濟大事，足供各方參考。全書十六開用三號大字，共十餘萬言，計三百四十頁，附有照片。茲已於二月間出版，交由交通建設學會（台北市金山街七十七巷四號，電話：三五一五八七）總經理。該書工本費每本新台幣五十元（台省不加郵費，美、加等國平寄連郵資每冊美金二元，香港等地平寄每冊港幣八元）。台灣購者可將新台幣書款存郵政劃撥八四三六號帳戶，或向台北市長安東路二段一六〇號之六三樓食品工業研究所唐慧貞學姊洽購。

續訂購「自訂年譜」名錄

鍾 皎	光考選部十本	江 萬	齡	徐 名	標	五本
鐵 路	局 一百本	祁 偉	姓 彥	張 俊	彥	二本(菲律賓)
鐵路貨運服務所	卅本	呂 偉	基 彥	沈 觀	岳	
英國交大同學會	十本	泰 丕	基 彥	王 秩	忠	
李 孟	暹	孫 丕	衛 敦	汪 德	培	四本
高 振	華	金 輝	敦 敦	顧 湘	霖	
范 銳		彭 一	敦 敦	董慶邦先生		二本
陳 奇		周 一	士 敦	孫 金	聲	
溫 鼎		陳 仁	怡 敦	何 炎	先生	
戈 武		袁 森	泉 敦	李 其	昌	
沈 中		胡 定	華 敦	郭 南	宏	
				張 去	疑	

交大未來發展計劃

——敬請諸位學長匡正指教——

張去疑

盛慶珠院長自接長母校工學院以來，即積極計劃擴校事宜，去年感恩節前後曾專程赴紐約、波士頓及華盛頓等地訪問校友商討擴校及捐助母校等事項。

盛院長於去年十二月間返校時曾與在校教授成立交大發展委員會，以便擬定計劃進行擴校工作。

交大發展委員會經過廣泛研討，根據美洲校友會一九七一年六月間所擬定之「復大原則」配合國內經建發展之需要，並參考國內外校友對擴校之寶貴意見（例如在友聲198 201 203 205 210 212 216 218 各期友聲上所發表者，以及由盛院長口頭轉告者）爰先擬就第一期擴校四年計劃，附載於後，送請各位校友參考並請匡正指教。

六十二年——六十三年：不能增加系、所，因為六十二年秋季需增系、所計劃必須於六十一年六月以前送教
育部核定方得編列預算。

六十二年——六十四年：擬增加(1)運輸管理系

(2)公用事業管理系 (Department of Public Sector Management) 或

財務管理系，待會商決定。

(3)計算機科學研究所

六十四年——六十五年：擬增加(1)機械系

(2)材料工程研究所

六十五年——六十六年：擬增加(1)土木系 (包括污染控制與環境工程等)

(2)環境科學研究所

六十六年——六十七年：擬增加(1)應用化學系

1975-1976 Add (1) The Department of Mechanical Engineering. (In the first phase, we may emphasize Agricultural Machinery, Textile Machinery, etc.)

(2) the Institute of Material Engineering.
1976-1977 Add (1) the Department of Civil Engineering. (It may include Pollution Control and Environmental Engineering.)

(2) the Institute of Environmental Science.

1977-1978 Add (1) the Department of Applied Chemistry.

2. Justifications for the 4-year development plan.

The formulation of the 4-year expansion plan is based on three fundamental requirements: (1) the new departments and institutes should be relevant to the current needs and demands of the age of the Seventies; (2) the new departments and institutes should serve the particular needs and demands of Taiwan; (3) the new departments and institutes should be capable of being materialized without much difficulty by the existing facilities, regular government funds, and alumni support.

A recent 4-year Economic Development plan will demand increasing management personnel by both the government organizations and private enterprises. Therefore two new departments belonging to the future College of Management are recommended for establishment during the first year of the expansion plan. An Institute of Computer Science is also included in the first year because

A PROPOSED 4-YEAR EXPANSION PLAN FOR THE COLLEGE OF ENGINEERING NATIONAL CHIAO TUNG UNIVERSITY

For the purpose of planning and implementing the expansion work of the National Chiao Tung University, a Developing Committee was established at the University on December 26, 1972. This Committee comprises the President of the present College of Engineering and fifteen faculty members.

In order to introduce new fields of studies and to meet the requirements for a series of Economic Development plans for the Province of Taiwan, the Committee has formulated a 4-year Expansion Plan for Chiao Tung University.

1. The proposed 4-year development plan.

1973-1974 No action can be taken because any development plan for 1973-1974 must be approved by the Ministry of Education before June, 1972.

1974-1975 Add (1) the Department of Transportation Management.

(2) the Department of Public Sector Management. (An alternative for this department by a latest recommendation is the Department of Finance Management.)

(3) the Institute of Computer Science.

Department of Public Sector Management will be a unique department that will train civil servants to meet the requirements of City Planning and the emerging Urban Science and Engineering in Taiwan. It incorporates modern planning via operational research subject to engineering specifications and the articulation and enactment of legal regulations. This department will be without equal in any other university in Taiwan, and will serve well the needs for the present projects of city planning and urban development.

A latest consultation with Chiao Tung Alumni in Taipei has resulted in the recommendation for a Department of Finance Management in place of the Department of Public Sector Management. This department might be a good alternative, because, in view of the rapid growth of government and private enterprises, finance management personnel will be in urgent and great demand.

(3) Justifications for the Department of Mechanical Engineering

As the broadest in scope of all engineering fields, Mechanical Engineering is now not restricted to a particular technology. Mechanical engineering concerns Mechanics, Materials, Thermal and Fluidal Science, Control Systems, Machinery, and other related systems and sciences in both heavy and light industries.

Mechanical Engineering, a formerly celebrated department of Chiao Tung University, has produced many excellent engineers now working abroad or at home. Therefore to serve the need for the recent Taiwan economical and

Chiao Tung University already has a Department of Computer Science and the purpose of establishing such an institute is to produce scientist of advanced level in this growing area.

During the subsequent years of the plan, our primary goal is to re-establish the Departments of Mechanical Engineering and Civil Engineering, the formerly celebrated departments of our Alma Mater, as advocated by a number of enthusiastic alumni, while another department and two more institutes, which are considered to be relevant to the current needs and demands, are also recommended for addition.

The justifications for each additional department or institute are given below:

(1) Justifications for the Department of Transportation Management.

For many years, both government organizations and private enterprises have been in urgent need for management personnel in various sectors. Chiao Tung people have been playing a very important role in transportation fields. However, due to the suspension of the Management School since 1947, we have faced the severe problem of disrupted supply of management personnel from Chiao Tung University. Therefore the Department of Transportation Management should be a first priority for consideration.

(2) Justifications for the Department of public Sector Management.

As mentioned in Dr. Franklin Wang' proposal, the

is also a potential new department for Chiao Tung University to develop during the subsequent years.

(6) Justifications for the Institute of Computer Science.

Chiao Tung was the pioneer to introduce the first computer to Taiwan and to promote Computer Science in this country, and has already established a Department of Computer Science. The purpose of establishing such an institute is to produce high-level scientists for the country in this growing area.

(7) Justifications for the Institute of Material Engineering.

Referring to Dr. F. Y. Wang's recommendation in his letter of October 20, 1972, a Department of Material Science could be operationally feasible because Chiao Tung is well equipped with electronic materials. However, due to the fact that Tsing Hua has just established a Department of Material Science, it may be difficult for us to duplicate the same department. Despite this fact, with the strong foundation in electronic materials and our close relation with government and private industries, an Institute of Material Engineering might be justified for addition to the College of Engineering if we oriented our programs towards engineering rather than science. The purpose of establishing such an institute is of course to produce competent engineers who will add to our faculty for the preparation of establishing a Department of Material Engineering later on.

(8) Justifications for the Institute of Environmental Science.

Our general environment is undergoing a rapid change

industrial development, the addition of the Mechanical Engineering Department is well justified.

(4) Justifications for the Department of Civil Engineering.

The present Civil Engineering ranges widely from Earth Science, Water Resources and Hydrodynamics, Soil Mechanics, Material Science, Structural Transportation Systems, Urban Systems Engineering, Environmental Control, to the conventional Construction and Operations.

In alignment with the recent economical development of Taiwan, Civil Engineering will play an important role. In order to meet the rapidly increasing demand for civil engineers to serve in Transportation, Construction, Communication, Urban Development Housing Projects, Water Resources Utilization, Defence Projects, etc., Civil Engineering is the principal instrument for focussing man's scientific and technological skills on this adaptation and control of our environment. Although many other institutions in Taiwan have had the conventional Department of Civil Engineering for years, Chiao Tung may focus the training on new areas such as Pollution Control and Environmental Science.

(5) Justifications for the Department of Applied Chemistry.

The Department of Chemistry exists in many other universities in Taiwan as a pure science department. Therefore there is no reason why Chiao Tung University has to duplicate this department. However, Applied Chemistry is required in many areas such as electronics, petroleum, polymer, and food industries, all of which are expanding rapidly in Taiwan during recent years. So this

National
Chiao Tung
Univ.

College of
Engineering

1. The Institute of Electronics
2. The Department of Electronics Engineering
3. The Department of Control Engineering
4. The Department of Communication Engineering
5. The Department of Mechanical Engineering (1975)
6. The Department of Civil Engineering (1976)
7. The Institute of Material Engineering (1975)

College of
Management

1. The Institute of Management Science
2. The Department of Management Science
3. The Department of Transportation Management (1974)
4. The Department of Public Sector Management (1974)
(An alternative is the Department of Finance Management)

College of
Science

1. The Department of Electrophysics
2. The Department of Applied Mathematics
3. The Department of Computer Science

due to social and technological reforms. This is also the case with the Province of Taiwan where rapid economical and industrial development is proliferating complex changes within our environment. Today the protection of the environment from man's diverse activities, total development and utilization of renewable resources, pollution control and environmental improvement, etc., are all challenges of special significance for study. This field will be very new in Taiwan. It is proposed to establish an Institute at the outset because it is difficult to start a department of this nature without good foundation.

3. Comparison of the present structure and the expanded structure of Chiao Tung University.

A. The present structure.

- The College of
Engineering
National Chiao
Tung Univ.
1. The Institute of Electronics
 2. The Department of Electronics Engineering
 3. The Department of Electrophysics
 4. The Department of Control Engineering
 5. The Department of Communication Engineering
 6. The Department of Computer Science
 7. The Department of Applied Mathematics
 8. The Department of Management Science
 9. The Institute of Management Science

B. The expanded structure of Chiao Tung University
after the 4-year plan.

6. Government funds and personnel support for new departments.

For each new additional department, our government will grant the university each year a fund of NT\$ 650,000 (equal to US\$16,250) for laboratory facilities, classrooms, dormitories, etc., and an increasing budget per year for two professors, one instructor, one clerk, and one janitor. This financial support will continue for four years, until the senior year is completed.

For each new additional institute, our government will support the university for two years with a fund of NT\$600,000 (equal to US\$15,000) for research facilities and construction plus an increasing budget for two professors per year.

It is thus seen that government funds are very limited, and to start a new department or institute effectively it is very desirable to solicit extra funds from other sources.

- 4. The Department of Applied Chemistry (1977)
- 5. The Institute of Computer Science (1974)
- 6. The Institute of Environmental Science (1976)

.....indicates new addition

5. Procedures for implementing the 4-year plan.

(1) The 1974 (July)-1975 (June) Plan.

- (a) By March 30, 1973, suggestions and recommendations are consolidated, accordance is reached between Alumni Association and the University, and final plan is drafted for submission to the Minister of Education (MOE).
- (b) By April 30, 1973, the expansion plan is submitted to MOE for approval.
- (c) By June 30, 1973, the proposed university budget for the 1974 fiscal year, which includes the budget for the proposed departments and institutes if they are approved, is submitted to MOE.
- (d) By December 30, 1973, funds and construction plans for dormitories, classrooms, and laboratories must be ready.
- (e) From June 1973 to June 1974, efforts should be made to find competent teachers for the proposed courses of the added departments and institutes.

Similar procedures apply to the 1975-1976, 1976-1977, and 1977-1978 plans.

編者的話

一、仲肇湘學長所撰「國際形勢的總趨向」(下)及「海角嘔鳴」詩選均在下期友聲繼續刊登，請原諒。

二、四月份校慶專號，祈請諸位學長惠賜鴻文。

三、來信及稿件請寄臺北第五六六號信箱。西寧北路六號已改作他用，請勿再寄上址，以免遺失。

蔣院長巡視新竹母校

沈中益

對教育成果備致嘉勉

行政院長蔣經國，於今年元月三十一日上午十一時，由教育部長蔣彥士及經濟部長孫運璿陪同，到新竹交大巡視。聽取郭代院長南宏所作之簡報，參觀圖書館、研究工場及實驗館。並到學生宿舍和留校同學們親切交談，至十二時許始離校。

郭代院長在簡報時表示，本校大學本科因課程設計週詳，內容新穎，兼以嚴格勤學的校風，理論實際的並重，所以學生課業甚佳。無論繼續深造或就業，均能精進致用，極受歡迎。電子研究所的研究範圍着重於半導體物理、應用電子學、電漿物理、計算機科學及其應用。管理研究所則強調數學、工程、計算運用等基本課程，作為研習管理與決策等專業基礎。交大因為配合國家經濟發展的需要，目前集中全力於五項研究發展：一為電晶體及積體

電路之研究，二為電視機製造之研究，三為計算機方面之研究，四為通訊技術方面之研究，五為雷射方面之研究。

郭代院長曾將交大目前亟待解決之困難情形書面報告蔣院長，請求協助解決。第一為學生宿舍和飯廳的增建問題。六十二年度應付自然增班而學生人數增加時，已無宿舍可以容納，六十三年度預備增系時更將不足，所以學生宿舍之增建，實屬刻不容緩。現有餐廳同學已必需分三梯次先後用膳，下學期人數增加時，無法再容納，所以急需另建第二餐廳。第二為校地問題。現有校地十二甲，勢難發展，將來恢復三院九系學生人數達二千人時，將無法容納。所以鄰近土地之收購，亦將早做籌劃。

蔣院長參觀研究工場與實驗館時，對於電子設備零件之製造，自製電晶體與積體電路之性能，垂詢甚詳。對於雷射之功能以及可能之發展，甚感興趣。蔣院長並對交大設備之充實，校園之優美，表示讚許。對於交大同學們朝氣蓬勃，富有研究科學之精神，表示十分欣慰。嘉勉他們精益求精，發揮團隊精神，做好科學工作，將來報效國家。