

Isay

泛華統計協會

International Chinese Statistical
Association

前 中國留美統計協會

(formerly Chinese Statistical Association in America)

會刊暨通訊錄

January 1989

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泛華統計協會會址

1989會刊暨通訊錄

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會務報告

鄭惟孝 (89年 Secretary)

陳順益 (88年 Secretary)

1. 協會的業務在1988年中更向前邁進了一大步，各項工作如正式立案，Fund Raising, Membership Drive, 籌辦 Journal 等，均能配合預定進度。88年8月於紐奧良舉行的年會中，會長刁錦寰，傅權及各工作小組召集人，對過去一年協會所進行的各項業務，均作了詳盡的報告。而隨後所召開的理事會，亦通過多項決議並確定今後工作目標。有關會議報告及決議事項記錄，請參閱本期會刊的“紐奧良年會記”及“1988年理事會會議記錄”。同時年會宣佈，傅權為1989年會長，及經全體會員郵寄投票表決，由蔡嘉永獲選為會長當選人 (President-elect)。會中並宣佈，協會於1988年8月8日已登記成為正式立案組織，即日起，各種對協會的捐助，均可以免稅。有關立案經過情形，請參閱本期會刊的“泛華統計協會之立案經過”。

2. 目前協會的所有資料均已建立電腦檔案，包括會章，By-laws, 會員資料及繳費記錄等。資料均存於個人電腦 P.C. 的 disk 裡，由於多數 P.C. 都有許多現存的程式來處理文件，方便又迅速。更重要的是，這些 disk 可隨時移轉，交接，協會的事務因而可適時地分散到熱心會務的會員手上。在協會事務日益增多，繁瑣之際，這實不失為一個企業管理的好方法。目前通訊錄，繳費記錄等，由加拿大的鄭惟孝負責。會刊、會訊部份則由威斯康辛的同學負責編輯、印製及發行。

3. 本期通訊錄的格式，略作改變，除了姓名中文電腦化外，同時也加入 E-mail address 和 FAX Number。要維持一份完整的通訊錄，有賴全體會員的共同努力。尤其是住址變更時，請務必附上 zip code。目前以大宗郵件交寄會訊、會刊時，郵局規定每份郵件均得有完整住址 (包括 zip code)，方能寄出。希望同仁能儘量配合。

4. 我們的會員已增至五百餘人，可說是個不算小的組織，為了使我們的辦事效率提高，我們正在建立一系統化的作業程序。這很需要所有會員的合作，使我們更有效地為會員們服務：

(1) 每年的會費通知單會在年底寄出，請儘早抽空繳交。

(2) 以後會員通訊錄擬每三至五年印發一次。如您有任何建議或批評，請不吝提供高見，使協會發揮聯繫會員，推展中國統計事務的目的。

(3) 歡迎多提供動態，音訊，及有趣的文章，使我們的“通訊”能達到它的功效！

(4) 會費用個人支票付款時，請注意你們銀行中是否有足夠的費用。因為我們最近收到一張 NSF check，被罰款美金十元！

5. 1988年共有214人繳交會費，謝謝繳費同仁的熱心支持。同時感謝捐款同仁的大力相助，謹列出捐款同仁的大名如下：

陳占平，黃偉民，黃美滿，彭文富，鄭治明，丁承，
劉忠榮，蔡嘉永，蔡知令，陳惠森，魏慶榮，向傳心，
周賢忠，楊照崑，唐冬明，王肇齡，譚外元，張林東貞，
葉翹，董永良，魏武雄，刁錦寰，韓建佩，許德安，
彭先恐，廖茂雄，王永雄，郭新光，袁人俊，謝暉光，
劉江，蔡偉彥，劉本傑，丁迺迪，王堯弘，韋端，
陳曉雲，黃國立，傅權，鄭惟孝，張健天，魏立人，
藍光國，林宗華，陳惠森，逢甲大學統計系。

6. 1987-1988年收支報告 (於1988年理事會通過)

	收 入	支 出
會 費	5831.69	
文具等		113.53 (NT\$ 3256)
郵 費		538.67 (NT\$15449)
印 刷		1150.62 (NT\$33000)
總 數	5831.69	1802.82

結 存： +4028.87

1988年理事會會議記錄

時間：1988年8月24日下午4:00

地點：Marriott Hotel, New Orleans

主席：刁錦寰

決議事項：(1) Bylaw由全體理事投票贊成通過。感謝蔡嘉永、羅昭容及藍光國盡心盡力擬定 Bylaw.

(2) 會費維持學生 US\$5, 非學生 US\$10.

(3) 吸收大陸會員：會費人民幣 10元，暫存於王壽仁處。(1988-89 only)

(4) Membership Committee (審核會員資格)：張健天、李昭勝。

(5) Fund Drive Committee：葉翹、向傳心、蔡(永)嘉、丁迺迪、李全序、傅權、鄭惟孝。

(6) 預定在 Dec. 18-20, 1989於香港舉行一國際性學術會議，香港方面正由李錫欽籌劃中。

(7) 由鄭惟孝任 Secretary 兼 Treasurer 三年。

(8) Finance Committee：鄭惟孝、陳占平、張健天。

(9) Publication Committee, studying how to divide workload：魏立人、劉本傑、鄭惟孝及陳順益。

(10) 1989 program chair：羅昭容、韓建佩、蔡嘉永。

(11) Nominating Committee：魏立人、胡乃介、葉翹、向傳心。

記錄：傅權、齊茂松

紐奧良年會記

韓建佩

泛華統計協會在1987年舊金山正式成立，這次在紐奧良的年會是協會成立之後的第一次大會。年會於1988年8月24日下午五時在 Marriott Hotel 舉行，計有七十多位同仁參加。年會中首先由現任主席刁錦寰及下任主席傅權報告過去一年中協會進行的各項工作，其中最主要的工作為協會正式立案。這項工作由蔡(永)嘉負責，他向大會報告 State of Delaware 已正式發給 Certificate of Incorporation of International Chinese Statistical Association，因此協會已成為 Nonprofit Organization，今後對協會的一切捐款都可以獲得免稅優待。協會成立之初，需要很多經費，希望各位同仁踴躍捐獻，以鞏固協會的財政基礎。大會並決議由理事會頒贈獎狀給承辦的義務律師，以為酬謝。

協會的另一項工作為吸收新會員，由張健天和李昭勝負責。張健天向大會報告協會已在台灣吸收了很多會員，在中國大陸方面，現正積極宣傳協會的宗旨，相信也會有不少會員參加。

協會每年都要選舉下年度的主席當選人 (president-elect)，今年由會員郵寄投票，結果蔡嘉永當選為下任主席當選人。

協會的宗旨之一是促進學術交流，所以協會將出版一份學術雜誌。刁錦寰報告他已和中央研究院簽好合同，共同出版 "STATISTICA SINICA"，請大家踴躍投稿給主編 Prof. G.C. Tiao, Graduate School of Business, University of Chicago, 1101 East 58th Street, Chicago, IL 60637 U.S.A. 在協會主席刁錦寰報告之後，全體會員以熱烈的掌聲酬謝他對協會及 "STATISTICA SINICA" 創辦的貢獻。

在年會公開討論中，主要的有兩項事。第一項事是如何獎勵 Wisconsin 的中國同學，威大的中國教授及同學們歷年來對協會都出了不少力，年會決議由理事會商議獎勵中國同學辦法。第二項事是 Constitution

是否要翻譯成中文的問題。討論結果是 Constitution 可以譯為中文，但協會的正式立案是在 State of Delaware，只有英文本會有效，中文譯本只可作為參攷之用。

年會於下午六時在非常融洽的氣氛中結束。

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泛華統計協會之立案經過

蔡嘉永

一. 協會之成立

泛華統計協會(以下簡稱協會或 ICSA)是由中國留美統計協會演進而成的。後者在刁錦寰及吳建福兩位教授多年的輔導下，由無數的 Wisconsin 大學同學默默耕耘，使之成長、茁壯。願在此向 Wisconsin 大學歷年來各位參與協會工作的同學們致最大敬意。個人深知，他們應得的 credit，實非在此的敬意所能 balance。

協會的演進過程，從1986年在芝加哥成立籌備小組，到1987年在舊金山協會正式成立，其詳情請參閱1988年3月會刊中，刁錦寰、傅權的“泛華統計協會之起源、發展與期望”，以及魏立人、齊茂松的“舊金山年會記”，在此不另贅述。不過，我要藉此機會感謝幾位在起草會章(constitution)及章程細則(By-laws)時，給我大力相助的人。羅昭容與藍光國分別在 constitution 和 By-laws 起草過程中熱心參與，鼎力相助。刁錦寰自始至終，提供許多寶貴意見，使這些文件能順利完成。願在此向他們致最大謝意。

二. 協會法人資格之立案(Under State Law)

協會成立後，要與外界簽訂契約或申請某些法律文件，應該要有法人身份。刁錦寰會長交帶我負責進行各項立案事宜。所幸有位與我一齊服務美華協會多年的律師朋友願意協助我辦理立案工作。我們斟酌各州立案的利弊後，選定在 Delaware 進行。申請書中，須填一位該州居民作為 Registered Agent。住在該州的葉翹理事答應義務掛這個名。否則，我們必須花二百元雇用專作這種服務的公司(謝謝葉翹為 ICSA 省了二百元)。申請的結果，在1988年8月中我接到 Delaware 的州務卿寄來了 ICSA 的法人身份証(Certificate of Incorporation)。

-ation)。有趣的是在通知單上說，ICSA在該州正式立案的時間為：“The Eighth Day of August, A.D. 1988, at 9 o'clock A.M.”。此乃夏令時間也！若當地標準時間，該是：88年8月8日8時立案。中國人一向喜歡吉利的話。若ICSA立案時間以廣東話發音，它讀作：發發年發月發日發時。上上大吉！！記得八月八日那天，CBS News特別報導，在這百年才一天的黃道吉日裡，許多中國人選這天開張、破土、結婚、生子。我們立案於百年一時的黃道吉“時”，會員們不發也難。還沒參加ICSA的同仁們！要發趁早，繳了會費就有份，快！快！

三. 非營利團體免稅資格之立案 (Under Federal Law)

協會有了法人身份後，還不能保證各位的捐款可合法地從收入中免稅扣除。我們還須向IRS申請非營利團體免稅資格（即 Tax Code 中，有名的 501(c)3 status）。此項申請要比法人身份的申請更複雜好幾倍。有好多的表格要填，每個表格有許多難題要回答，還有許多要附繳的文件。這項立案非專業律師很難順利進行。只好再請求上述那位專於稅法的律師再度協助。經過幾次的 appointments，作了好幾次的修改，終於11月初送到IRS申請。在此有件事順便向各位交待。即在 New Orleans 年會中，我說會員今年起對協會的捐款在美國可合法的免稅。當時有位同仁提出質疑，我僅憑那律師的話回答。現在我手上有個IRS的 publication，叫 “Tax-exempt Status for Your Organization”。它的 chapter 3, 第二 column 的最後一段，寫得清清楚楚。我們的律師沒說錯。各位可放心捐款。捐越多、免稅越多！減低你稅額好方法之一是多捐款給ICSA！！

四. 她的服務精神，可為典範

中國人（廣義的）不再是自掃門前雪的民族。她為大眾服務的精神是個明顯的例証。她為許多華人團體奉獻無數的時間，消耗了無數的心血。她的服務精神，可為典範！她是誰？各位一定這樣問著。她就是為本協會申請法人身份、申請非營利團體免稅資格等等各項立案

工作的那位律師。前面我說，她協助我辦協會的各項立案。其實更正確地說，是我協助她辦這些立案，因為她做得比我多！她提供所須表格，屢次不厭其煩地和我討論如何最有利的回答問題。當我給她所須的資料和文件後，她還在百忙中抽空把申請表打起來。我僅付上申請費把表格寄出而已。她沒要協會付一毛錢！若要照正常的律師鐘點費算的話，恐怕本協會剛成立不久就要 file chapter 11 了！記得在 New Orleans 有位同仁告訴我，他們的中文學校為上述各項立案，花掉一萬多元律師費。話說到此，若我不把這位律師介紹給各位的話，我真是 guilty！這位ICSA的朋友叫趙子萍 (Margaret T. Chao)，在華府某個 Law Firm 服務多年 (for pay)。多年來為華人服務不遺餘力，現任為美華協會全國總會副會長。當我們完成各項立案工作後，我邀請她今後做我們協會的法律顧問時，她很樂意地答應了 (Thank you again, Margaret!)。89年在華府的年會中，希望她能與各位同仁見面。最後，我要深深感謝各位同仁對我的信任與愛戴。把協會第三任會長的重任交託給我。個人深感惶恐。除當盡棉薄之力、效犬馬之勞外，還懇請各位先進、各位同仁今後多多指教、多多幫忙。

(編按：作者雖然於12月底因患腎結石住院，猶能忍住這十級劇痛，念念不忘地為會刊完成這篇文章，衷心感謝及恭賀他康復。)

我們不見得是在創造歷史；

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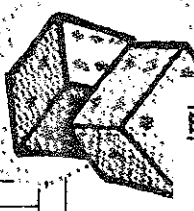
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輪盤之解答

胡乃介

與陳順益總幹事商量以後，覺得可以向諸位同仁敘述一下我解答輪盤之經過，希望沒有太多負面的影響。

一九七九年夏天，和以往很多年一樣，我去新澤西州海邊渡假，我當時是住在 Englewood, N.J. 住過東部的人都知道，去新州海邊渡假，可說是最簡便的渡假方式。那年稍有不同的是大西洋城新建立了賭城不久。我與家人到達後，就去 Casino 遊玩，不料在十五分鐘到三十分鐘光景，就有一位經理模樣的人，很有禮貌的請我離開。最初兩家是如此，經理人則男女均有。起初我並不太在意，認為這多半是生意興盛，顧客過多之故。但是，再到不太擁擠之處所，仍是被人請走，在假期中，這個現象，一直持續下去，而且有一兩家 Casino，當我在 Cashier window 兌換錢鈔時，頭頂上有很明顯的照像聲音，使我很不自在。當時在 Boardwalk 上，一共只有十家左右 Casino，幾乎已走遍了。所以，就渡假而言，並不是愉快假期，一直到第三天晚上，回到 Englewood 以後，與家人相談後，我才恍然大悟，原來在無心中，我（可能）解出了一個賭博上，也是或然率上的難題，就是輪盤。

因為自始至終，我沒有玩其他 game，而且錢數目不多，但我也一直很滿意我十發九中的成績，這是唯一能構成被驅逐出境的理由。所以我知道我有可能將此題目徹底解出。當時，我實際上具有的知識，是大致能記憶輪盤上數字之排列，但也不能全部記得，唯一理論根據就是它數字之排列，決非 random，因為 random digit number 只適用於千萬以上之數字，輪盤上只有 36 個左右的一二位數字，如果設計人用彈球方式選出，如果 2, 3, 4, 5, 6, 7 剛好跳在一起，則無法成立，所以它決非 random。從這樣開始，我就利用空餘時間，去解輪盤。

當然，坊間所有輪盤書籍，均不堪一讀，否則輪盤早不存在。總之，第二年夏天，我順利地解出了美式輪盤，然後開始解歐式輪盤，它比較困難，因為它不是對稱的。又過了兩個夏天，在一九八二年，終於解出。沒想到這已是三年以後了，為了保障權益，寫成「輪盤之解答」約六十頁，並取得版權。

很巧的是，在同一年，在JASA上，有位 S.N.Ethier 提出輪盤是 open problem，徵求答案 (JASA, 1982, September)，我考慮以後，決定不予反應，我到現在仍持此態度，這是JASA的失誤，這道理太簡單了，其一，好的統計學家，一定能成為好的賭徒，其逆定理則不成立。同仁之中，棋橋國手不少，是為明證。其二，如果我將答案交出，則此例一開，營利性問題接踵而來，賽馬、股票、Bingo、Lotto等，統計學家都忙著去解決這些問題，則後果堪虞。

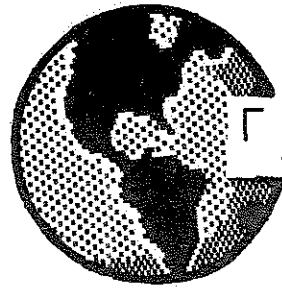
一直到去年，即一九八七年，國際賭博學會在 Reno 開會，我因去舊金山開年會，就順便去，將此文發表，提倡賭博與禁止賭博的人一起開會，也是在民主國家才有，與會者各行各業都有，教授也有三十多位。我提出論文時，有四五位教授集中火力，主要是如何能解釋 Classical gambler's ruin 現象，因為所有 Game of chance，對 House 均有一定利益（輪盤為 5.26%）。我當即用經濟學之 in the long run, House 有其一定比例之利益，但 in the short run, 則不一定，此為賭博存在之原因，並不違背或然率法則。所以，我去了以後，頗有收穫。第一，與會之兩位權威教授，一為 Stanford U. 之 Dr. Thomas Cover，一為 U.B.C. 之 Dr. William Ziemba，均為統計和 OR 在 game 上之權威。二人均承認我的答案正確。第二，Dr. S.N.Ethier，即 JASA 之原作者亦在座，並無異議。第三，Bally casino 經由大會主持人之夫人，Ms. Eadington，(Dr. Eadington 在 UN-Reno 任教) 告訴我，在一九七九年，在大西洋城對我有照像事，並非我向壁虛構。

以上閒話，浪費會刊寶貴篇幅不少，現轉入正文，將輪盤之解答分成

四部份向同仁報告如下：

- 一. 美式與歐式輪盤二者數目字排列均非偶然，以往僅用數學（或然率）或統計均不能解出，一定要結合 Cryptography 和 Combinations 才能解出。對統計上來說，只要能證明其具有非偶然性，則問題即已解出。
- 二. 在輪盤上，紅黑與單雙數字均等，各為 18。但紅單、紅雙、黑單、黑雙則不等，應該各為 9，但分別為 10 和 8。歐美二式皆然。此缺點在現行 36 數制度下無法克服，惟有 48 數制度，才能將此差異消除。個人認為此為輪盤設計之重大缺失。理論上，高手憑此點即可擊敗輪盤。
- 三. 在偶然性排除以後，輪盤上之數字已實際上化為自然數列，讀者只要選取適當地段 (Segment)，設 $N=36$ ， k 為任意數目， $k < n$ ，設球速與起點均固定，則只要成功與失敗區域劃分成功，則亦可破解輪盤。此為實用之情形。
- 四. 如何解釋 Classical gambler's ruin 現象，此一 random walk 或 Markov Model，在數學上，只是解一個 first order difference equation，邊際條件為已知，二人沿著平面軸上移動，此解答各書均有，在長期觀點言，莊家勝，短期則不一定。其實莊家在輪盤上可以從一個零，兩個零，加到三個或四個零，以保持其在或然率之優勢。到某一程度，則賭徒只好去玩其他 game of chance，如二十一點之類，在長期觀點，仍屬 random walk model 之範圍，並不違背或然率法則。

註：同仁們如要見原文，可向我函索，地址見通訊錄。



「入世」與「出世」之間

董永良

ICSA會刊的老編來函催稿，限期交貨，一時文思枯竭，不知從何寫起。突然想到趙民德兄在上一期會刊中為文，把從事應用統計的工作稱作「入世」，相對的我就把理論統計之研究比作「出世」工作，願就入世與出世之間，略作申述。

我個人讀書的經過非常曲折。中學畢業那年正逢到台灣四大院校第一次聯合招生。當時立志作工程師，報考機械系，不知何故被分到台大農業經濟系就讀。因為志趣不合，常常逃課。偶爾讀到張果為老師所編「財政與經濟」上幾篇經濟理論的文章，感到興趣，乃在這方面下過一陣工夫。生吞活剝，不求甚解。大學三年級時系裡請來鄭堯梓師講授統計學。四年級跟他唸完高等統計學，由陳超塵師作助教。陳先生非常熱心講解，使我對統計學發生濃厚興趣。畢業論文是由張德粹師與李師共同指導，作計畫經濟學需要曲線方面之研究，每星期坐零南路車去李師家中討論一次。畢業後去農復會農村經濟組作研究助理。與謝森中師、王友釗師、李師合寫過幾篇論文。因為參與一項台灣農業普查的工作，乃對抽樣之理論與應用頗感興趣。一年半後我即離開農復會去 Minnesota 唸書。當時該校統計與生統二系人才濟濟，受到席伯乘、韓健佩、張健天諸兄之影響，有計劃攻讀生物統計。後來接受業師 Richard Savage 及 Milton Sobel 的指導，才決定唸統計系，與林英祥、嚴士溥二兄甘苦與共。如果說我的讀書經過就是一「隨機過程」之實現，亦無不妥之處。總之我是誤打誤闖才摸進了統計學的山門。

自 Minnesota 畢業以後一直從事教書研究工作，匆匆已有二十年。雖然我的研究是以數理統計為主，但也作過些「入世」的工作。其中包括與電子計算機系、生物系幾位教授的小型研究計劃，及與 Georgia

Pacific, Southern Bell 有關統計學與工業管理之間的問題。另外的主要工作是參與一項 Minnesota 醫學院對生理循環 (biological rhythms) 之研究計劃。其中包括判別分析與富氏分析 (Fourier analysis) 之結合運用，以解決生理循環在疾病診斷及癌症研究中之有關統計問題。此一研究工作之主持者 Franz Halberg 教授已被提名為今年諾貝爾醫學獎候選人。能否得獎到 1989 年秋天便見分曉。

至於數理統計與應用統計之間應該如何協調配合，是一個很常見的話題。George Box 曾把二者之間的相互發展比作夫婦間的相持相守。一定要密切配合，方能枝葉繁茂，子孫滿堂。這種說法雖然失之過簡，但卻一語道盡其間之關係。如果借用我國哲人辜鴻銘先生的妙語，我們不妨把理論統計比作茶壺，應用統計比作茶杯。等到理論統計發展到某一階段，便可芳香四溢，應用到各個分枝。但是搞理論統計的人也要把應用問題放在心上。所謂出世之士仍有入世之胸懷，才能見山也是山，見水也是水。Oscar Kempthorne 即對有些統計定理的假定不切實際，深惡痛絕。(這位老先生一向言詞鋒利，有機會罵罵人，絕不輕易放過。) 他說如果你搞理論統計，有定理無法證明，不妨。你只管繼續增加條件，管它適用不適用，直到能證明為止。這話雖然有所偏失，但亦不無道理。反過來說，搞應用統計的人也需要有起碼的理論訓練，不可認為 software package 能包醫百病。舉個實例來說，有一位博士論文作者在作雙方分析時遇到困難，他說他只要一個 F ratio，結果 computer 給他兩個 F ratios。乃問我到底應該選擇何者為宜。原來他不知 one-way ANOVA 與 two-way ANOVA 之間的區別何在。試問理論基礎如此薄弱的人，作出來的研究含有甚麼價值可言呢？關於這方面的問題，已有多人討論過，也就不必再作陳述了。

華人統計學者之成長

謝暉光

最近十年來有志從事數學研究的學生有顯著減少之趨勢，為此美國 National Research Council 曾對美國的數學高等教育做了詳細的調查與探討，而於 1984 年發表了具體的報告 (見 Ref. [1])。報告中指出全美國獲得數學相關科系博士學位的人數由 1951 年的 200 人增至 1970 年的 1217 人，然後卻逐次減少至 1982 年的 796 人。最近美國數學學會數學教育小組召集人 Prof. Edward A. Connors 也在 The Scientist 發表文章 [2] 討論這個問題，其文中指出目前大學數學主修生繼續深造 (不一定數學) 而獲博士學位的只有三分之一為數學博士，其他三分之二為數學以外之博士，該百分比在 1975 年時為 40%，而在 1965 年時有 43% 為數學博士，這顯示有能力念博士的數學系主修生改行的趨勢愈來愈嚴重。

由於對研究數學有興趣的學生愈來愈少，很多人擔心到了公元 2000 年，當現有的數學家逐漸退休後，新產生的數學博士將供不應求而嚴重地影響到整個數學教育。

這些報導引發了我對統計學博士產量的興趣。我於是寫了一封信到 ASA 查詢，所得的答覆竟是：對不起，我們沒有這樣的統計資料，不過請參考每年底 AMSTAT NEWS 所登各校統計相關科系所授之學位數字，自己算算吧！(當然我很失望，這麼大的統計學會竟沒有去統計一下自己最切身的統計博士人數)。因為整個美國的人數不易整理，我想至少可先了解一下我們華人統計學家人數之成長吧！於我做了以下的整理工作，供大家參考。

我的主要參攷資料是泛華統計協會 1988 年度的會刊暨通訊錄。表一與圖一為 1953 至 1987 各年華人獲得統計相關科系博士學位之人數，圖二為累積成長曲線，至 1987 至少有 253 個華人獲得統計相關之博士。當然真

正的數字一定超過此數，因為可能有部份學者未列入通訊錄。這裡所稱的統計學者包括生物統計，經濟學，管理科學等相關科系。

華人統計學先進早期獲博士者包括蔣慶琅先生 (1953)，鄒至莊先生 (1955)，周元榮先生 (1958)，涂硯詒先生與郁保羅先生 (1961)，刁錦寰先生與吳賢銘先生 (1962) 等人。華人獲統計相關科系博士學位人數最多之年份為 1982 與 1984 (各 22 人)，1985 年後有減少的趨勢，但顯這是暫時性的。不過從圖二的累積成長曲線，我們可見到最近 29 年來華人統計學家平均每年以約 10 人的成長率增加。

因時間與資料的關係，我沒有整理獲碩士學位的統計學者，因為我相信有很多此類學者尚未納入通訊錄。如果將獲碩士與博士的統計同仁一併計算，華人統計學者之成長率一定相當可觀。

References:

- [1] Renewing U.S. Mathematics. Report of the Ad Hoc Committee on Resources for the Mathematical Sciences (National Research Council), National Academy Press, Washington D.C., 1984.
- [2] "A Decline in Mathematics Threatens Science - and the U.S." by Edward A. Connors, The Scientist, November 28, 1988, pages 9 and 12.

Table 1. Statistics Doctorates Earned by Chinese

Year	Number	Year	Number	Year	Number	Year	Number
1951	0	1961	2	1971	11	1981	6
1952	0	1962	2	1972	14	1982	22
1953	1	1963	3	1973	7	1983	14
1954	0	1964	3	1974	12	1984	22
1955	1	1965	1	1975	7	1985	10
1956	0	1966	4	1976	18	1986	9
1957	0	1967	3	1977	12	1987	7
1958	1	1968	6	1978	12		
1959	0	1969	3	1979	16		
1960	0	1970	10	1980	14		

談線上品管 (On-Line Quality Control)

向傳心

最近田口玄一 (Genichi Taguchi), Dr. Elsayed (Rutgers Univ. 工工系主任) 及本人合寫的一本有關線上品管的書已由 McGraw-Hill 出版, 書名 "Quality Engineering in Production Systems". 我願意趁這個機會介紹一下線上品管及田口玄一對工業界的貢獻.

田口為世界著名品管專家, 他的 "Off-Line Quality Control" 觀念及方法對美國工業界造成了極大的震撼, 也引起很多的爭論. 我用過傳統的實驗設計, 也用過田口的 Off-Line QC 方法. 我比較喜歡田口的方法, 並不是他的方法有甚麼奇特, 而是他把一些重要品管觀念溶入傳統的實驗設計而形成一套 "新" 的方法叫 Off-Line QC. 比方說他用 Loss Function 為實驗的 Performance Criteria, 以及他對 interaction 的一些積極處理方法, 是一般專搞統計者意想不到的. 順便要一提的是國內學者張里千 (中國現場統計研究會理事長及中國科學院研究院研究員) 夫婦把田口的 Off-Line 更簡化及實用化. 我個人很喜歡用張里千的 Off-Line 方法, 他的貢獻也是中國人的光榮.

以上所談其實是些題外話, 因為都是針對 Off-Line 方面. 我主要想談田口的 On-Line 方法 (線上品管), 前面所提和田口合著的書, "Quality Engineering in Production Systems", 全書是討論田口的線上品管觀念, 應用及實例. 田口的線上品管有列的特點:

1. 它依據田口對品質的定義發展出來的. 傳統所用對品質的定義是

"Conformance to specification", 這品質定義普遍地被用了很多年. 但這定義有極大的缺點: 第一, 它不夠嚴謹; 第二它的 loss function 是錯的. 田口對品質的定義是 "Deviation from Target". 這觀念是正確的, 由它配合田口的 Quadratic loss function 一起用時, 品質好

Figure 1. Number of Statistics Doctorates Earned by Chinese

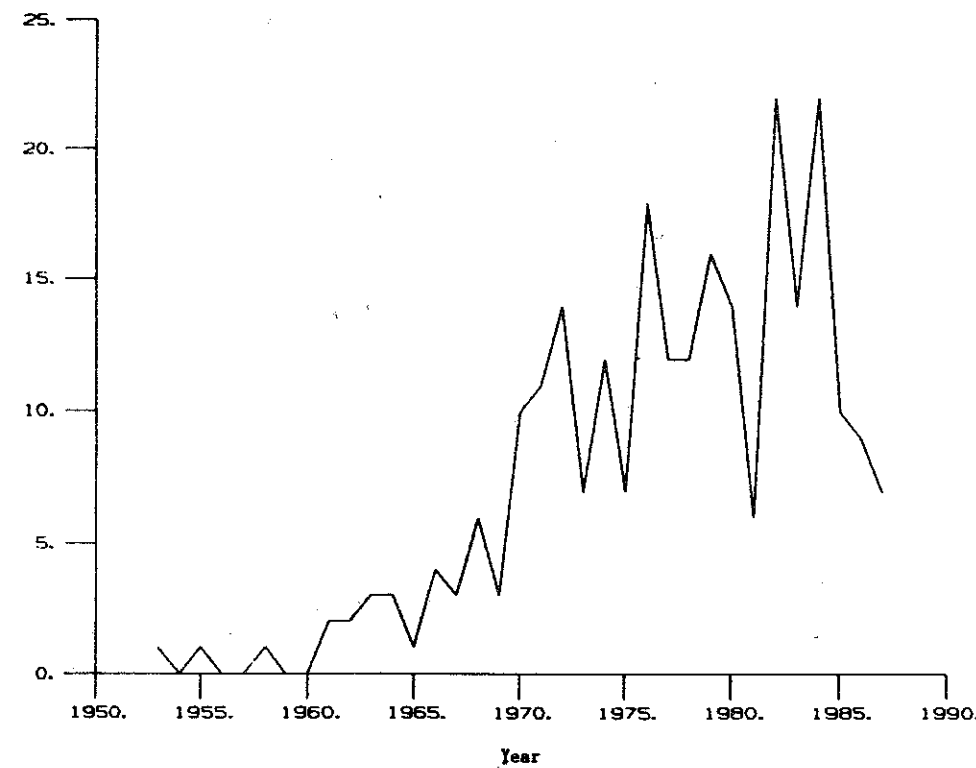
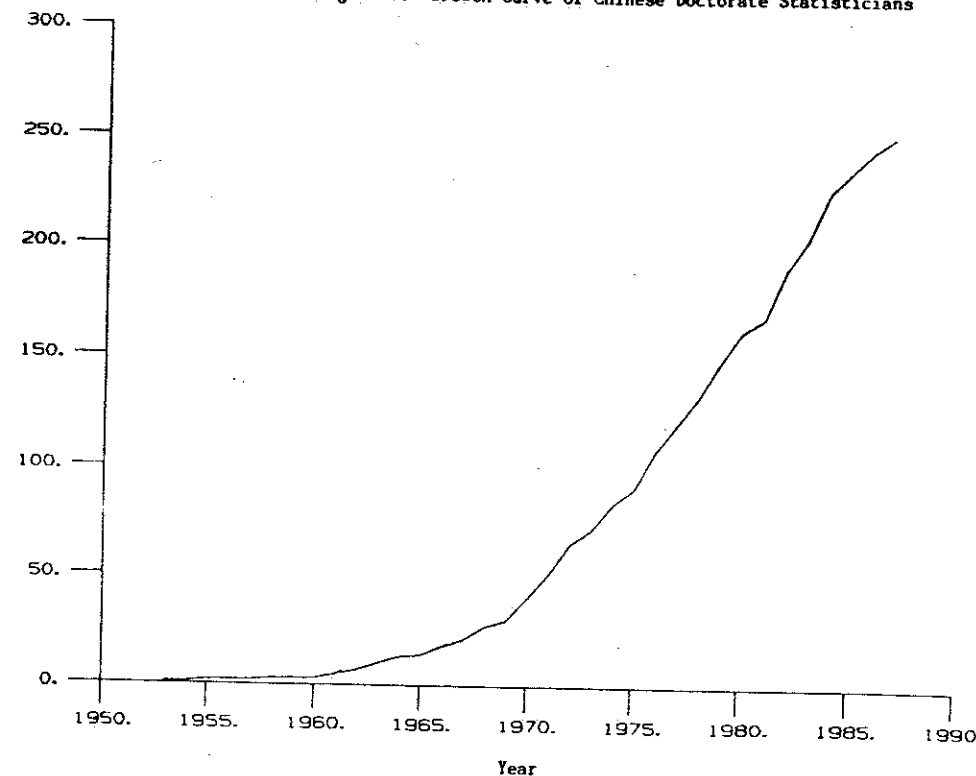


Figure 2. Growth Curve of Chinese Doctorate Statisticians



壞可以用錢的單位來表達。田口的品質定義非常有用，現在一些品質上先進的公司都採用田口對品質的觀念，譬如福特汽車公司，等等。

2. 品管從不同的利益觀點來做，會產生不同的結果。譬如可以從生產者的利益觀點來做，也可以從顧客的利益觀點來做，也可以從生產者和顧客一起的利益觀點來做。Shewhart 的品管圖 (Control charts) 是從生產利益觀點所產生出的一套方法。很多線上 100% 檢驗的品管方法是從顧客利益所產生出的方法。而田口的線上品管是從社會利益的角度下所導出的方法，因它同時考慮生產者及顧客的利益。

3. 上面已提及田口的線上品管是從社會利益的角度，而 Shewhart 品管圖是從生產者利益所導出。同時還有另外一個很大的不同就是 Shewhart 品管圖是追求一個 "State of Statistical Control"，而田口的線上品管是要減少 State of Deviation from Target。"Deviation from target" 有它實際品質的意義，而 "State of Statistical Control" 非常玄，同時也只是一個統計的觀念而已，它只存在於數學的領域裡，許多人包括田口不承認它實際的存在。(這個討論要牽涉到熱力學第二定理，不在此多說)。另外一點是一般的品管圖 (control chart) 其名稱是言過其實，因它只是一個圖來 monitoring process。它並不實際控制 (control) 程序，也沒有提出一套相關程序控制的觀念。而田口的線上品管實際討論到如何來控制程序以達到品管的目標。這和傳統的品管圖是很不同的。

上面拉拉雜雜的談了一些，希望大家有機會研究田口的線上品管，它的確對線上品管這領域帶來了新的觀念。

Malcolm Baldrige National Quality Award 簡介

陳以文

統計在品質管理和改進方面扮演著一個極重要的角色。統計方法在近年來已成為工業界改善品質的基礎。越來越多的統計專家學者投身工業界，幫助工業界用系統的分析方法降低成本，增進生產力，以增強競爭能力。

1988年，美國品質管理界有一項極重要的突破，就是創立了美國國家品質獎。這個獎的創立過程中，許多統計界人士盡了很大的力。在此借用泛華統計協會年刊一角園地，向各位對此國家品質獎作一簡介。

1987年8月，美國總統雷根在美國國會通過的 "The Malcolm Baldrige National Quality Improvement Act of 1987" 上簽名，正式創立了一年一度的美國國家品質獎。設立這個獎的目的，是要增進大家對品質重要性的認識，彰顯在美國的公司特殊的品質成就，並且發佈成功的品質策略 (Successful Quality Strategies)，使各公司單位互相切磋學習，以增進美國工業界的環境競爭力。這項法案 (Act) 使得 Malcolm Baldrige National Quality Award 成為任何美國公司所能得的最高榮譽。

這個獎以美國前商務部長 Malcolm Baldrige 命名 (Baldrige 在 1987年7月在加州墜馬去世)，以紀念他在部長任內對美國經濟的貢獻。上述法案指定美國商務部長和 Institute of Standards and Technology (前 National Bureau of Standards) 負責此獎的推動和行政工作。

美國國家品質獎分為三類：

1. 製造廠商或他們的子公司；
2. 服務性廠商或他們的子公司；
3. 小型企業。

每一獎類每年最多可有二名得主。

1988年,第一屆國家品質獎頒給了 Motorola, Inc., the Commercial Nuclear Fuel Division of Westinghouse Electric Corp., 和 Globe Metallurgical Inc.,沒有服務性廠商得獎。這三個公司是六十六個申請公司中脫穎而出的。

所有申請此獎的公司需要繳交一份書面報告,由國家品質獎的評審委員(Board of Examiners)根據七項評斷準繩(Award Criteria)評分。得高分者由數名評審委員到公司作實地參觀評鑑,最後由一組裁判(A Panel of Judges)審查所有資料,決定得獎名單。

1988年的裁判組有九位成員,其中包括數位統計界知名人士。裁判名單如下: William Eggleston, James Bakken, Richard Freund, Blanton Godfrey, William Golonski, Brian Joiner, David Luther, Frank Pipp 和 Kent Sterett。美國國家品質獎的精華在於評斷準繩。任何公司想要改進整體品質,都可用這些準繩作為藍圖。為避免翻譯失真,作者決定以原文呈現各位。這七項準繩之下還有極為詳盡的細則。

1. Leadership:

The senior management's success in creating and sustaining a quality culture.

2. Information and Analysis:

The effectiveness of the company's collection and analysis of information for quality improvement and planning.

3. Planning:

The effectiveness of integration of quality requirements into the company's business plans.

4. Human Resource Utilization:

The success of the company's efforts to utilize the full potential of the work force for quality.

5. Quality Assurance:

The effectiveness of the company's systems for assuring quality control of all operations.

6. Quality Assurance Results:

The company's results in quality achievement and quality improvement, demonstrated through quantitative measures.

7. Customer Satisfaction:

The effectiveness of the company's systems to determine customer requirements and demonstrated success in meeting them.

作者很幸運的擔任1988年評審委員,並參加了1988年11月14日在白宮舉行的第一屆頒獎典禮,親見雷根總統頒獎給三位得獎公司的總裁,作為評審委員,雖然需要花費很多心力和時間,但從中汲取的經驗是非常可貴的。希望泛華協會的會員們能大力支持並參與這項有意義的活動。如果您需要更詳細的資料,請寫信或打電話給:

Malcolm Baldrige National Quality Award
National Institute of Standards and Technology
Gaithersburg, Maryland 20899
(301)-975-2036

或然率在算法上的應用

黃光明

算法的分析傳統上是考慮在最不利情況下的性質，有名的「不定性完備」(NP-complete)理論就是討論在最不利情況下一個算法所需的時間是否能以輸入量的一個多項式函數表示。學統計的人比較習慣於考慮平均情況而不是最不利情況，但在算法分析上平均情況往往比最不利情況為難；因為後者只要抓住一個情況，而前者要掌握所有情況才能計算平均值。

1959年鬮木[1]和同仁們考慮一些計算幾何的問題(旅行售貨員，最短生成樹，最短斯坦納樹)，提出了一個輸入點集合為隨機而以平均值為目標函數的模型。他們用一個分解(點集合)的方法得到了一些最佳算法的漸近性質，計算科學大師，也是不定性完備理論的創始人之一的Karp，秉承了上文的精神，在1977年發表了有名的旅行售貨員問題分解算法[5]，為以平均值為目標函數的算法分析打開了一條康莊大道。Princeton大學教授Steele和他的一些博士生們[8]也在這方面作了不少工作。在非幾何問題上最著名的結果大概是Smale[7]證明了線性規劃的單純算法所需的平均時間和變數量成正比。在實用的排序(sorting)，合併(merging)問題上，平均值分析正開始邁步[6,9,10]。

除了輸入和分析可以有隨機的模型外，算法的本身也可以隨機。一般的想法隨機算法沒有甚麼奧妙，一定表現不好，但在很多問題上專家們百思不得其解，大自然卻借著隨機算法來展示她的法力和神奇。譬如我們要造一個有 n 個點 m 條線具有某種性質的圖，當 n 和 m 相當大時，由於選擇太多，正確的造法往往並不明顯。但是有一類的定理(參攷[3])告訴你，當 m/n 達到某一臨界值時，一個隨機圖具有所需性質的或然率趨於一，在編碼[2]和篩選[4]問題上，隨機算法也被證明了在或然率趨於一的

條件下相同於最優算法。

類似的觀念也可用在一些表面上似與或然率無干的組合問題上[3]。譬如欲証在某些條件下一定存在一個有某種性質的圖。我們可以先計算在這些條件下圖的總數，然後再列舉沒有所求性質的圖的類別，把各類的數目分別自總數中減去，如果所剩數不為零，則證明即成立。(注意分類不一定要很嚴格，一個圖歸入好幾類也可以，只要每一無所求性質的圖都被歸類即可。)如果定義一個變數對無所求性質的圖其值為零，對有所求性質的圖其值為一，則上一問題也可看成是証明當圖在均勻分佈下時此變數的期望值不為零。

寫這篇短文的目的是指出雖然傳統上算法是離散數學的禁地，但近年來或然率已佔領了若干橋頭堡，而且趨勢是愈演愈盛。對或然率有興趣的朋友，何不佔此先機，猛著先鞭、先入為主、先馳得點呢？

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EQUITY INVESTMENT



蔡敏演

We of the Chinese International Statistical Association are a group of highly trained professionals. Our compensation, in dollar terms, are the pay checks from our jobs. How, where and when to preserve and to put our money to grow are our choices, presumably we have the knowledge, time and ability to do so.

It is interesting to see the similarity when comparing how to invest one's assets and how to educate one's children. We send them to the best schools, find good teachers, watch them grow up. After the assets reach a certain size, we need to have professionals to help in planning, and managing our assets with disciplines in order to maximize the risk.

As a statistician and money manager myself, I would like to share some of my work and experience to show you how we can take advantage of our technical training with long term views to let our assets and children grow simultaneously. The words are "equality investment."

Profile of An Average Chinese Statistician

1. Age: 42.
2. Income per household: US\$75,000-95,000.
3. Tax bracket: 23% weighted average.
4. Risk tolerance: low, but rewards also limited.
5. Decision making: slow, lack of update information.
6. Investment preference: real estate and CD.
7. Need to invest: high (interest to invest: increasing).
8. Using professional service: 20% and less.
9. Average capital for investment: US\$50,000.

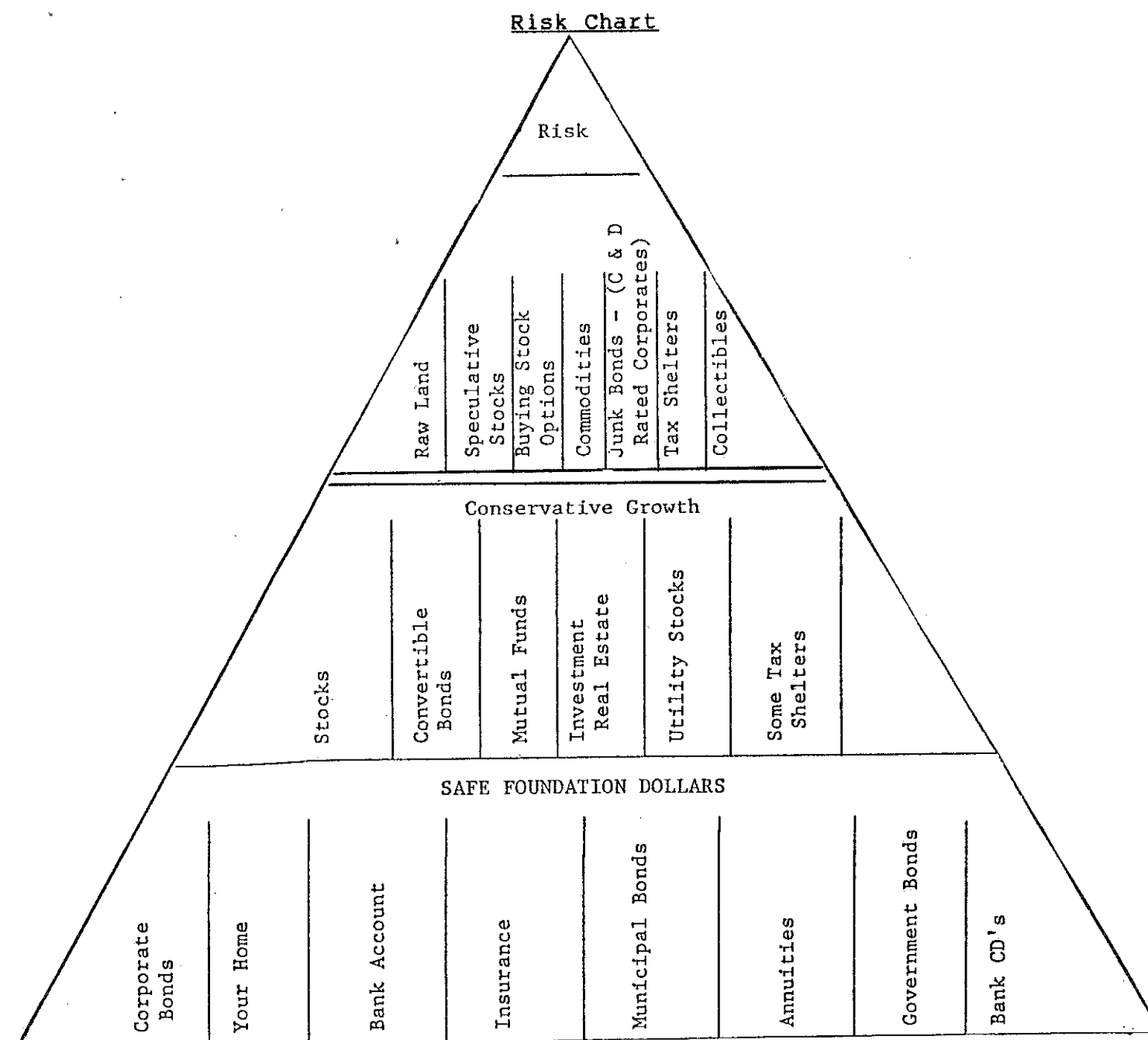
Steps to Get Start

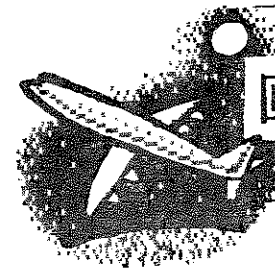
1. Find what levels of investment you need.
2. Know what kind of investor you are.
3. Understand the products in the financial supermarket.
4. Find a reputable investment firm.
5. Find a good money manager to assist you.
6. Plan a portfolio.
7. Know the market and the art of how to listen to the concert of Wall Street and Main Street.
8. Learn investment disciplines.

Try to Know These Markets

1. Bull market
2. Bear market
3. Consolidation market

4. Trading market
5. Psychological fear and greed market; panic market
6. Over-evaluation market, high P/E, high P/D
7. Bond market, interest rate
8. Commodity lead market
9. Currency leading market
10. Global market
11. Takeover market; LBO market





回台一年生活點滴

傅權

What Stocks to Invest

Quality :

1. Do not buy cheap stocks, buy fewer shares of a high price, sound company than more shares of a bargain stock.
2. Think in terms of the number of dollars you are investing.
3. Cheap stocks can drop 15% to 20% more quickly than most high price stocks. Professionals and institutions will not buy \$5 - \$10 stocks.

Growth :

4. Concentrate on stocks that sell for over \$20 a share that have some institutional acceptance.
5. The current quarterly earnings growth rate must be up at least 20%.
6. Historically, tops of stocks prices occur around 2 to 3 times after a stock splits.
7. Buy when corporation has been reducing debts over last two years. When corporate quarterly earnings increase, it always means the stock price has upward movements.

When to Sell

1. Keep better performing stocks. Sell under performing stocks.
2. Common sense in retailing business.
3. When a loss is really a loss, whether convert it to cash or hold the stock, the total worth is the same.
4. Whether you want to buy that stock at that price, if the answer is no, then why not sell them.
5. Cutting loss at 10%, like 10% insurance premium.
6. Take losses quickly and profit slowly.

Strategies on Market Cycles

1. In early stage of bull market, be a follower.
2. Late stage of bull market, be contrary.
3. Middle stage of a market cycles, when market is digesting advanced or declined, be a trader. If not, park your money in CD or treasury bills.
4. Stay with the market, up or down, watch the tide, you will gain experience and become a winner.
5. Find a good broker to guide you. You need timely information.
6. Investing in different market cycles is fascinating and very profitable.

(編按:這篇文章是一種新的嚐試,希望能達到為會員服務的目的。有關 Major Market Trend 及如何投資等詳細資料,有興趣的同仁請與作者直接聯絡。)

離開台灣已有25年了,雖然曾經回去過幾次,但都是短期的停留。1987年7月始,適逢休假一年(Sabbatical Leave),趁機回台灣中央研究院統計研究所工作,除了做研究工作並與雙親團聚之外,另一件主要工作便是代表泛華學會與中央研究院統計研究所協商聯合創辦"泛華統計學報"事項。

我們一家三口於1987年6月5日抵達台北,全家搬進雙親的木欄小公寓,雖然擠了一些,父母親的興奮盡在不言中。我們在加拿大住慣了,對於台北又熱又濕的氣候起初很不習慣,過了一段日子,也就漸漸的適應了。

抵達台灣的次日,就到中央研究院統計所拜見了趙民德所長,同時也與所中很多同仁見了面。所中辦事人員很快的替我安排好了工作房間與所需用的東西。中央研究院位於台北之東郊南港區山邊,院內風景優美,環境清靜。統計研究所是一幢設計新式、美觀新造好的四層樓的建築,為中研院中最佳建築之一。所中辦公室均有自動調節的冷暖氣設備,冬暖夏涼。它的圖書館內藏有大量的統計研究書籍及一百多種學術性的統計雜誌。有一間寬大舒適的休息室,除供應茶水、咖啡之外,還有多種國內、外的報紙和雜誌。在這一年中我曾花了不少的時間在這個休息室中討論問題與天南地北的聊天。聽說今年中央研究院將會有一個 Super Computer 供研究人員使用。

在這樣美好的環境中愉快的工作了一年,除了感謝統計所的朋友們對我們的照顧外,更讓我懷念的是所中學術氣氛與青年朋友們對研究工作的朝氣與信心。如能有更多統計學者回去工作,十年後的統計所可能會成為國際知名的統計研究中心呢!

在台的一年中，我曾訪問了許多大學的統計系和統計研究所，其中清華大學與中央大學的統計研究所均已設有碩士與博士班，教授陣容也很堅強。我應中央大學的邀請開了一門課，Fundation of Statistics。學生在數學與理論統計方面的程度較強，但在應用與直覺方面則較弱。其研究工作的水準與風氣均不下於美、加很多大學的統計系。

目前，台灣在統計學術研究方面，大部份尚集中在數理統計與理論統計方面，而且常有很好的結果。最近，工業統計、生物統計、與社會統計等等也都在加速發展中，相信不久的將來這方面也會有很高的成就。

每次回去都覺得台灣在各方面皆突飛猛進，尤以物質生活為盛，台北生活費用之高可比擬北美。但生活上最令我們不習慣的是台北交通混亂，開車人不遵守交通規則。有人告訴我在台北開車的原則是“拼、擠、闖”，不然不要開車。我每天花兩個多小時擠公共汽車往返南港，也別有風味，特別是欣賞“台北人”的匆忙。

由於台灣的高度工業化與人口向城市大量集中，前者破壞了環境生態，後者則帶來了城市的交通與社會問題。雖然在物質生活上有很大的改進，但也付出了相當高的代價。目前台灣最主要的三大問題：環保、交通、和社會都是急待解決的。

這一年中正巧趕上蔣總統經國先生不幸去世，但是政權在民主的聲浪中平靜而成功的轉移了，這在中國的歷史上是難得一見的，很值得我們這一代自豪。且由於政府對大陸政策的開放，讓民間有自由的接觸，台灣在政治上邁進了一個展新的時代：民主與理性的時代。

與國外機構共同創辦國際性雜誌對台灣學術界來說還是頭一遭。為了與中研院統計研究所合辦“泛華統計學報”，趙民德所長、刁錦寰教授，和我們都花了不少時間磋商，終於達成協議，並也獲得台灣政府的同意。在這裡我要謝謝在台灣統計界的朋友們，特別是中研院統計研究所的朋友們，給與的支持和贊助，讓我們共同完成了一件該做的事。至於未來“學報”的發展，還需要大家同心協力繼續培養和支持。

在溫暖的親情、友情、和鄉情中，一年很快的便渡過了，臨去時對台灣有著強烈依依不捨的感覺，對於我們在台灣長大的人，除了台灣，何處又是故鄉呢？

誠徵統計人才

國立清華大學已於一九八八年成立了統計學研究所，欲徵求具統計或生物統計博士學位之人才，目前至少有兩個名額。工作內容為教研究所統計課程（每週六小時）以及獨立或與人合作研究。清華大學圖書期刊齊全，計算機設備良好（有CDC Cyber 840）研究環境相當不錯。為什麼不考慮在自己的土地用自己的語言工作？有興趣請寄經歷至

「臺灣新竹市清華大學統計學研究所 張德新收」

回台執教一年的感想



惟孝

趁六年一次的公休機會，去年回台服務了一年。雖然過去也幾度返台，但都是短暫的停留，沒能好好體會台灣的生活。離開台灣及大學二十餘年，這次有機會重回舊地待了較長一段時間，了解國內目前大學生活及狀況。

二十年不算短，台灣實在變了太多太多，大學中的一切也不例外。除了學校裡的學生及活動多了許多，設備、圖書及師資均增強了不少。尤其是老師資歷比過去提高了許多，平均年齡也輕了好多，以往老師都沒自己的辦公室的，現在也與國外無異，做研究的風氣也有了許多改進。但由於薪資的結構、執教鐘頭的規定及師資的不足，不少老師都“超鐘點”及“兼職”。除了賺些外快外，也可幫助解決他校老師的欠缺荒。當然這也減少了與學生接觸的機會及個人做研究的時間。但由於國科會研究獎助金的規定及實惠補助（可達個人收入的25%至30%），做研究仍有許多外帶的好處！

在與學生交談中發現不少學生相同的反應是在數學系中的統計學科通常都教得相當理論化，而沒甚麼實際的應用例題；而在商學院的統計學科又是另一極端，過份偏重應用及公式而忽略了實際意義及理論背景的研討。因此對我理論及應用並重、意義及背景解說的教法感到非常的新奇與歡欣，好些學生有發現新大陸或大夢初醒的感覺！

現在國內學生的學習態度都還不錯，尤其是對老師有禮，但不再敬而遠之。然而由於社會形態的變遷及經濟起飛帶來的掙錢機會，加上生活水準的提高，使一般學生並不如往年一窩蜂出國留學，因而也不斤斤計較分數、死讀書了。國內的研究所也增多了不少，而且師資水準都很不錯，所以出國深造不再是尋求大好前途的唯一或大好途徑。我個人覺

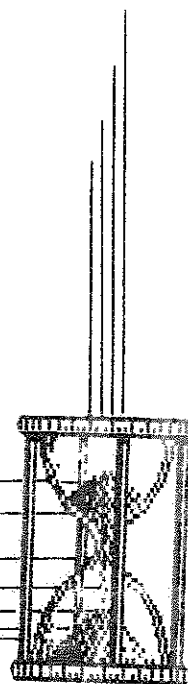
得這是好現象，是國內一切進步的最好證明之一。然而，大學學生的一般水準也比以前差了，班級卻比以往大些。

國內已有不少統計系所仍缺少師資。一般來說公立大學的經費都不成問題，待遇也不錯。私立學校經費卻很拮据，薪水也不比公立高。儘管統計人才仍缺乏，但返回服務的人也越來越多，所以各校求才也不是有應必聘！

國內的統計仍如往昔，所謂的“統計系”是在商管學院，“數理統計”卻在理學院的數學或應用數學系中。照理說是不應如此分家的，卻不知何時才可見統計的“團圓”！

另外統計同仁的交往也較以前頻繁，不再是閉門造車的情況。但是一般社會大眾對統計的應用及了解仍待推廣，工商業界及醫藥、農業方面對統計方面的運用仍應加強。

總之，能有這一年的機會重返校園，重溫大學生活是一個永遠難忘的經驗！





校園簡介

密西根州立大學

黃鐘璇

密西根州立大學 (M.S.U.) 位於東蘭辛 (E. LANSING), 是一個環境優美的大學城。M.S.U. 校園面積廣大, Cedar river 穿梭校區, 在夏末初秋時, 河流兩畔常有學生們打球, 曬太陽, 慢跑或滑獨木舟, 往往會讓你更有想出去透透氣的感覺。當然囉, 冬天, 一片白茫茫的雪, 只會更讓你思念夏、秋的美麗和溫暖。

關於統計系, 碩士必須修完 2 門一學年系列的課程, 一門是統計和機率, 用的書約等於 Degroot 的程度, 另一門是高等微積分, 再加上其他選修課程, 修完 45 個學分, 通過口試後, 一位堂堂的 M.S.U. 製的碩士便出廠了! 而博士班和碩士班有截然不同的“節目”。博士班首先得通過數學系的實複變考試 (Royden, Bak Neyman), 然後呢, 再考系上的資格考, 考試內容一門是機率論 (近 2 年都是用 Billingsley 的 Probability and Measure); 另一門是統計, 偏向於數理統計 (Estimation, Hypothesis, Linear Regression 等)。

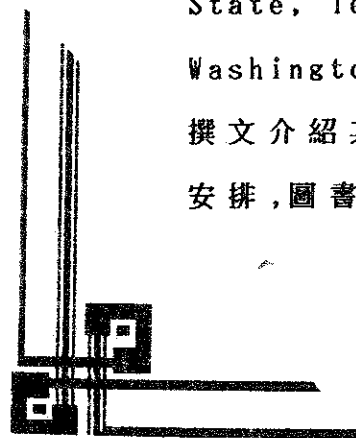
對於想學應用統計的人來說, 請別輕易嘗試到此, 此地雖是風光明媚, 可是, 到時由於系上方針, 會造成興趣不合, 再好的景緻也是沒用! 對不? 而對於數理統計和機率有相當喜好者, M.S.U. 有幾位老師實在不錯, 不妨留個四、五年吧!

至於系上中國同學約有七、八位, 印度人也佔有一席之地, 最近, 系上收學生的方針似乎有所改變, 原本是少數民族的老美有漸漸增多的趨勢! 同學之間, 相處甚為融洽, 平常除了一塊兒交換心得, 討論功課外, 不時也會有嘻笑談天之聲傳出某辦公室!

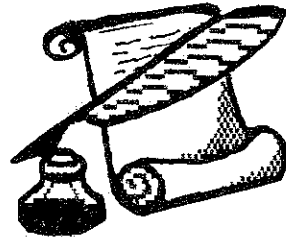
系上開課的課程如下:

Sample Surveys, Nonparametric Statistics, Linear Statistical Models, Multivariate Analysis, Time Series Analysis, Methods in Operations, Research I, II, Theory of Probability and Statistics I, II, III, Stochastic Models in Biology, Theory of Measure and Probability, Statistical Inference in Economics I, II, III, Stochastic Processes and Applications I, II, Asymptotic Theory, Sequential Analysis, Martingales, Stochastic Analysis, Markov Processes.

編者按: 會刊介紹過的校園有 Iowa, U. of Chicago, Yale, UW-Madison, Ohio State, Iowa State, U. of Georgia, Colorado State, Temple Univ., U. of Pittsburgh, Cornell, U. of Washington, 及 Michigan State U. 期盼會員們共襄盛舉, 能撰文介紹其他學校的統計教育, 可包括背景、現況、特色、課程安排、圖書設備、師資、學生人數分佈及畢業、就業狀況等等。



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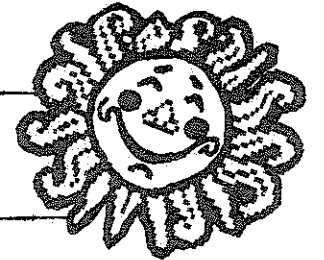
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會員喜訊動態



2. "Comparison of Four-Drug Discriminations in Training Compartments with Four Identical Levels as Four Different Response Manipulanda," Pharmacology, Biochemistry and Behavior, 30, 1988.

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3. "Modified Stepping-Stone Method as a Teaching Aid for Capacitated Transportation Problems," Decision Science, 18, 1987: 662-676.

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- 魏武雄教授已卸下 Temple Univ. 統計系系主任重責, 功成身退.
- 張美玲已完成 Temple Univ. 的學位, 返台服務於行政院主計處.
- 北京清華大學應數系林元烈教授於88年9月訪問 Univ. of Waterloo 統計系一個月.
- 上海師範大學數學系丁元教授於88年11月起訪問 Univ. of Waterloo 統計系一年.
- 魏慶榮於88年8月榮昇 professor, 魏教授並於87年10月起擔任 The Annals of Statistics 的 Associate Editor.
- 魏立人教授於88年起應聘至 Univ. of Wisconsin 任教.
- 向傳心博士與 G. Taguchi, E. Elsayed 合著新書 "Quality Engineering in Production Systems" 於1988年9月由 McGraw-Hill 出版, 新書內容係闡述 Taguchi's On-Line Quality Control.
- 徐建萍博士於88年七月起應聘到 Warner-Lambert 的 Parke-Davis Pharmaceutical Research Division 的 Biometrics Dept. 擔任 Manager.
- 丁承博士於88年八月返台, 任教交通大學管理科學研究所.
- 陳占平教授於88年榮昇 professor, 陳教授87年曾參加三個國際性統計會議: 中美統計年會, 澳大利亞及土耳其國際統計計算會議.
- 蔡知令教授今年起從 New York Univ. 應聘至 UC-Davis 任教.
- 胡乃介博士自85年迄今每年均榮列於中西部名人錄, Marguis' who's who in the midwest.
- 張其棟博士榮任 Dept. of Environmental Protection, City of Austin 的 statistical & mathematical water quality modeling programs 的主管.
- 葉卿銘博士於88年應聘至 CIBA-GEIGY Pharmaceuticals Co.

- 何淑禎博士榮列於 "International who's who of Intellectuals", 8th Edition, 1988.
- 楊照崑教授於88年3月應中研院資訊研究所邀請回國訪問,並在清大,台大及中大演講. 楊教授並於88年暑假到 Naval Research Lab 作 Image processing 與 Data comparison 方面的工作.
- 盧捷琦博士於88年8月起任教於 North Carolina State Univ. 統計系.
- 譚永生博士於88年8月起任教於 Oakland Univ. 數學系.
- 前協會總幹事齊茂松博士於88年9月起任職於 Merrell Dow Research Inst.
- 譚外元教授於88年1月至9月,應邀至 CIIT, Research Triangle Park.
- 莊如坡博士於88年畢業於 Univ. of Waterloo, 即任教於 Bowling Green State Univ.
- 許德安教授榮任 Designated Research Professor of Finance and Statistics.
- 彭文富教授榮任 Assistant to the Dean, 並於88年6月參加在 Raleigh, North Carolina 舉行的東南區留美學人年會 (ACSSUS), 發表論文 "在美中國留學生及其對華經濟發展之影響".
- Univ. of Alabama 的宋盛照教授,現為 Biostatistics Unit 的 director, 榮膺 National Cancer Institute's Cancer Center Review Committee for a four-year term.
- 周賢忠博士於88年10月應聘至 Parke-Davis Research Lab (Ann Arbor, MI) 工作.
- 董永良榮膺 American Statistical Association 的 Fellow, 董教授將於89年出版新書 "The Multivariate Normal Distribution" in Springer Series in Statistics.
- 黃偉民博士榮昇為 Lehigh University 的 Associate professor of Mathematics and Statistics with tenure.

- 黃俊宗教授當選 IMS 的 Fellow, 黃教授 on leave 到 Stanford Univ. 一年後,於88年7月返回 Cornell Univ.
- 劉江教授被聘為 the National Institutes of Health (NIH), Epidemiology and Disease Control Study Section 四年任期的評審委員評審其研究計劃. 同時由 National Institutes of Health 資助一千多萬元的研究計劃 "年青人心血管病危險因素形成的研究" (CARDIA) 將於1988年12月完成頭五年的研究. 最近 NIH 決定再繼續資助五年到1993年底. 劉江教授負責四個 Centers 中的 Chicago Center.
- 呂理裕副教授膺選國科會第26屆出國進修人員,於88年9月赴美 Stanford University 及 Purdue University 統計系研究一年.
- 陳志勝教授,任教於 University of Cincinnati, Dept. of Math. 專長於統計決策、機率極限理論、密度函數估計. 於88年8月起應聘擔任中央大學研究所客座教授一年,主授估計論、統計概似原則等課程.
- 鄭光甫教授,自88年8月1日起兼任中央大學秘書室主任,並辭卸統計所所長職務.
- 劉淑鶯教授,於88年9月1日起接任中央大學統計所所長一職,綜理所務.
- 耿旭教授於88年榮昇 UC-Davis, College of Agricultural and Environmental Sciences 的 Associate Dean. 其研究計劃 "Impact of Weather on Agricultural Production and Interdependence of Trade Among Pacific Rim Countries", 已獲該系同意支助為期兩年之研究.
- 劉本傑教授於88年12月應邀至中研院、台灣大學演講,並主持 International Computer Symposium 的 MIS session. 劉教授於88年12月底在紐約舉行的 Allied Social Science Associations, 擔任

Fiscal Policy and Inflation 的 session 主持人.並以北美中國經濟學會的新任 president 身份發表演講.

- 一 恭喜梁文騏,鄭光甫,林丕二,鄭清水及魏慶榮等五位會員今年獲選為國際統計學會 (ISI) 會員.

國立清華大學工業工程研究所

INSTITUTE OF INDUSTRIAL ENGINEERING

NATIONAL TSING HUA UNIVERSITY

清華工工系成立十幾年了,是國內工業工程學科的泰斗。

我們還有極少數名額,歡迎海外學人加入我們的行列。

對工業統計、作業研究、自動化以及CAD、CAM有研究的朋友,我們都很歡迎。

有興趣者請將履歷及三封介紹信寄至:

中華民國 臺灣省 新竹市 國立清華大學
工業工程系 阮約翰教授 收

回覆會員的建議

惟孝

我們收到一些會員們的良好建議,茲綜合回覆如下:

- 一.有關加入E-mail address及FAX number資料一節,已採納高見,包含在新的會費通知單及入會申請表中.
- 二.關於編印「英漢統計專用名詞字典」一節,是箇很好的建議.根據我們的資料,現在已有三本這方面的書籍:
 - 甲.«幼獅數學大辭典(統計學篇)»,幼獅文化事業公司(臺北),1980, pp.352(8"x10.5"),黃登源等十四位委員合編(共有九校十系所的統計同仁參與編輯工作).
 - 乙.«英漢統計詞匯»,中國統計出版社(北京),1987, pp.627(5.5"x7.5"),吳輝等六位委員合編(並含經濟計量學、計算機科學、運籌學及控制論等方面術語).
 - 丙.«英漢統計詞匯»,立信會計圖書用品社(上海),1987, pp.213(5.5"x7.5"),賈宏宇等三位合編(上海財經大學統計系).後兩冊雖同名,卻由不同單位及學者編印,而且同樣術語的中文翻譯也不盡相同.
 - 甲書已出版八年餘,也許可建議原編輯委員會考慮修訂版(十四位委員中有七位是本會會員).



再度接下協會的工作，並未因課業繁重，而稍感疏忽。個人深深了解到，會刊及通訊錄不僅是許多同仁的心血結晶，更是結合和聯繫所有統計同仁的有形實體之一。

協會現存有1969, 70, 72, 73, 74, 75, 及81至今的通訊錄，從早期“留美中國統計同仁聯誼會”(Chinese Statistical Society in U.S.)於1969年開始發行通訊錄，而後演變成“中國留美統計協會”(CSAA)，至今天的泛華統計協會。協會地點從威斯康辛，紐約，紐澤西，再回到威斯康辛，及今年的加拿大及威斯康辛。這些刊物也由用手抄寫，到今天使用中文電腦。每當翻閱這些刊物，都可感覺到近20年來協會筭路藍縷的成長過程。多年來幸賴許多同仁的參與和貢獻，使協會現在能稍具規模，而那些奉獻心力的同仁，在草創時期的創業精神及宏大遠見，更顯得珍貴了。

謝謝這期會刊賜稿的各位作者，也謝謝陳占平，劉本傑，林尚平，李正福，耿旭，汪盛燾，陳以文，黃光明，董永良，胡乃介，丁迺迪，蔣鈺琨，韓建佩，魏武雄，吳建福等諸位先生來信鼓勵及熱心幫忙，同時也感謝蔡嘉永教授在百忙之中，仍不斷地給我們指導與鼓勵。

協會業務之能順利推展，及本期會刊的出版，是所有工作人員努力及許多同仁熱心幫忙的成果。為了處理通訊錄資料的變更、增加、刪除、印出郵寄名條及處理繳費記錄等，威斯康辛的同學曾寫了一個小型的Data Base，將這三千多行的程式存於系上的大電腦裡。雖然這些文書處理的工作，現在都可由現成的PC程式來代替，威大同學苦幹及負責的精神，是值得在此一提的。同時也謝謝郭婉儀完美而迅速的中文打字，及細心地找出許多錯誤。鄭惟孝教授對通訊錄資料之轉移及會務的許多改進措施，花了無數心血和時間，更是令人敬佩。感謝魏立人、鄭惟孝及傅權教授的實際參與和推動一切工作，協助關懷之舉，使協會業務能上軌道，實功不可沒。

BY-LAWS

OF THE INTERNATIONAL CHINESE STATISTICAL ASSOCIATION

ARTICLE 1. MEMBERSHIP

1.1 Members. Members are classified into the following categories:

Individual members. An individual member shall be a person interested in the objectives of the Association whose application for membership is approved by the Board of Directors. The Board of Directors may delegate the function of approval.

Organizational Members. Institutions, corporations and other organizations interested in the objectives of the Association may be admitted to organizational membership by vote of the Board of Directors. The Board of Directors may delegate the function of approval.

1.2 Membership Year. The membership year for a member shall be the calendar year in which the member pays his/her membership dues.

1.3 Termination of Membership. Privileges of membership in the Association shall be automatically suspended if a member has failed to pay his/her dues for six months following the mailing of the first renewal notice. Membership may be terminated upon a finding by a two-thirds vote of all the members of the Board of Directors that a member has acted in a manner detrimental to the Association, provided that prior to voting the Board has given notice to the member describing the charges against the member, and there has been due opportunity for a response and a hearing by a committee appointed by the Board.

ARTICLE 2. FINANCE

2.1 Dues and Subscriptions. The Board of Directors shall have the responsibility of drawing up the schedule of membership dues (both individual and organizational) and subscription rates. This schedule may provide for a special rate to students for a limited number of years, to members fully retired from employment, to husband and wife in case they agree to receive a single copy of publications and notices, and to such other groups as designated by the Board of Directors. Any new schedule of dues and rates shall be announced in a newsletter and shall become effective at the beginning of the next calendar year unless, within a period of four weeks after the mailing of a newsletter, a referendum is requested as provided in ARTICLE 4 of these By-Laws.

2.2 Fiscal Year. The fiscal year shall be the calendar year.

2.3 Financial Authority. All funds of the Association shall be deposited with the Treasurer, who shall make disbursements therefrom under regulations of the Board of Directors. With the approval of the Board of Directors, the Treasurer may delegate to an assistant the powers aforementioned as well as the power to sign checks, and access to safe-deposit boxes.

2.4 Publication of Financial Reports and Audit. The Treasurer shall submit to the Board of Directors, within one month of the end of each half fiscal year, a current statement of the Association's financial condition, including assets, liabilities, income and expenditures. This may be done at a meeting or by mail. The Treasurer shall also make a financial report to the Board of Directors within four months after the end of each fiscal year. This annual report shall be audited by a professional accountant selected by the Board of Directors. The auditor's report shall be published with the Treasurer's report in a newsletter.

2.5 Financial Relationship with Members or Units of the Association. The Association shall not be responsible for the debts or expenditures of any of its members or units (e.g., Sections, Districts, etc.) unless such debts or expenditures are authorized by the Board of Directors.

2.6 Financial Relationship with Cooperating Societies. The Board of Directors may delegate to the Secretary or Treasurer the authority to negotiate financial arrangements with cooperating societies in connection with publications or other joint activities, subject to approval by the Board of Directors within the limitations provided in ARTICLE 5, Section 5.3 of the By-Laws.

ARTICLE 3. MAIL BALLOT

3.1 Quorum. In any mail vote of the Association's membership, all ballots received within a period set by the Board of Directors shall be counted and considered a quorum.

3.2 Balloting. If an election involves more than two candidates, the system known as approval voting will be used. Regardless of how many candidates there are or how many places are to be filled, under approval voting the voter may vote for any number of candidates, but may not cast more than one vote for a candidate. Winning candidates are those with highest numbers of votes. Any tie will be broken by random selection.

ARTICLE 4. REFERENDUM

Upon petition of at least 25 individual members of the Association, any action of the Board of Directors shall be subject to a referendum of the membership. The proposed referendum shall be published in a news letter. Within 30 days after publication, a mail ballot of the individual members shall be taken. The will of the membership as expressed by a majority of those voting shall govern.

ARTICLE 5. ASSOCIATION WITH OTHER ORGANIZATIONS

5.1 Definition. A cooperating or associated society is a nonprofit organization interested in the objectives of the Association and concerned with the advancement of the statistical method or of its application.

5.2 Procedure. The Board of Directors of the Association may enter upon cooperative working arrangements with such organizations for promoting the objectives of the Association. Such cooperative working arrangements may include:

- a. The exchange of representatives or delegates to each other's governing bodies or working committees;
- b. The assignment of Association representatives to an allied body composed of two or more societies including the Association;
- c. Cooperative administrative, secretarial, financial, conference and publications functions, and other cooperative working arrangements.

5.3 Limitations on the Procedures. No cooperative working arrangement may be entered into by the Board of Directors which:

- a. Results in the Association losing its identity as a separate organization;
- b. Violates any article of the Association's Constitution or By-Laws;
- c. Requires the Association to allocate more than 5 percent of its annual revenue during any calendar year without receiving the equivalent in goods and/or services.

ARTICLE 6. OFFICES

6.1 Methods of Nomination. Three months before the annual meeting, the Nominating Committee shall submit at least two nominations for President-Elect and two nominations for President if the President-Elect is vacated before February 1, unless it was vacated because the President-Elect became President. The Nominating Committee shall also submit at least two nominations from each Section and each District at due times for the Section Director and District Directors. Additional nominations for Directors may be made by a petition signed by at least 25 individual members or 5 Directors.

Two months before the annual meeting, the Secretary shall mail to individual members a ballot for the election to office from the persons nominated, along with a brief biographic sketch of each nominee.

The Secretary, the Treasurer and the Editors of each periodical shall be appointed by the Board of Directors. If an initial procedure is required for a new office, the Board of Directors shall determine the procedure for nomination and election for initial terms.

6.2 Vacancies in Office. Except as provided for below, or in ARTICLE 6, Section 6.1, the Board of Directors shall fill any vacancy on the Board which occurs between elections.

If a vacancy occurs in the office of President, the President-Elect shall become President for the remainder of the current term as well as for the entirety of the succeeding term. If a vacancy occurs in the office of President and there is no President-Elect at the time, the Board of Directors shall choose a President from among the members of the Board to serve for the remainder of the current term and an election will be held for President for the following term.

If the office of President-Elect is vacated prior to February 1 and is not due to the President-Elect assuming the office of President, a new President-Elect shall be chosen as part of the annual election. Unless conditions occur as described in the preceding paragraph, if vacancy occur on or after February 1, and is not due to President-Elect assuming the office of President, the Board of Directors shall choose a President-Elect from among the members of the Board, who will then become President for the succeeding term.

If a vacancy occurs in the office of Past President the office shall remain vacant for the remainder of the term.

6.3 Duties. The President is the chief officer of the Association and shall preside at all meetings of the Board of Directors. Except as provided otherwise by the Constitution or the By-Laws, the President shall appoint the members of the committees of the Association and determine which member of each Committee shall serve as its chair. The Past President shall serve as a special advisor to the President and a member of the Board of Directors. The President-Elect shall serve as a member of the Board of Directors and shall act as President in the event of the latter's absence or inability to serve.

The Secretary and Treasurer shall be responsible for the duties assigned by the Constitution and the By-Laws and for carrying out the policies determined by the Board of Directors. The Secretary shall prepare an annual report for publication in a newsletter on the activities of the Association as a whole.

ARTICLE 7. BOARD OF DIRECTORS

7.1 Members. Members of the Board of Directors shall be chosen as provided

for in ARTICLE 6 of the By-Laws.

7.2 Meetings. The Board of Directors shall meet at least once a year. Meetings shall be held at the call of the President or on written petition signed by at least five members of the Board of Directors.

7.3 Powers and Duties. Except as otherwise provided by the Constitution or the By-Laws, actions of the Board of Directors shall require a majority of those voting and the presence of a quorum. The quorum for the Board of Directors is a majority of its members.

As the policy-making and legislative body of the Association, the Board of Directors shall make all decisions of policy. It shall adopt rules for the conduct of its business in harmony with the Constitution and By-Laws; shall appoint representatives to cooperating societies and other agencies.

ARTICLE 8. SECTIONS, CHAPTERS, AND DISTRICTS

8.1 Sections. Sections may be established by the following procedure: Any group of 25 or more individual members of the Association (hereafter called the sponsors) shall prepare a proposal for the formation of the new Section. This should include a charter and a documentation of purposes for the new Section.

The proposal and petition will be submitted to the Board of Directors for review and comment. The Board will then send the proposal to each existing Section for comment.

Following review by the Board and receipt of comments from the existing Sections, the proposal will be returned to the sponsors for possible revision. The Board of Directors must consider the final proposal for approval or disapproval. If approval is not granted, the Board should provide guidance as to the reason for this action. If approval is given by the Board, at the time of the next annual election, the members will be asked to designate whether they desire to be members of such a new Section by signing a petition to that effect. (The petition will be prepared by the sponsors.) If at least 5 percent of individual members sign such a petition, a new Section shall be created as of the beginning of the next calendar year. The President, with the consent of the Board of Directors, shall appoint the officers of the Section to serve until officers are elected by the Section members at the time of the next annual election.

The Board of Directors may dissolve a Section ^{on the recommendation} of the Committee on Sections, if (a) it has become inactive, (b) the membership is less than 5 percent of the total membership of the Association, (c) at least 25 percent of its members request dissolution, or (d) it is determined by the Board of Directors that its continuance would be detrimental to the best interest of the Association.

8.2 Chapters. Each Chapter shall be governed by a constitution which is consistent with the Constitution and By-Laws of the Association and provides for an annual meeting and annual election of officers. A copy of the Chapter constitution together with all subsequent amendments must be filed with the Secretary of the Association.

All individual members residing in the area served by a Chapter shall be eligible for membership in that Chapter. Other persons may join the chapter as local associates. Only individual members of the Association may serve as President or Secretary of a Chapter.

8.3 Districts. Districts shall be established by the Board of Directors according to the geographic location and membership distribution. The Board of Directors must review the District boundaries at least every 10 years. Taking

into account whatever changes have occurred in the geographic distribution of the membership during this period, the Board of Directors may revise the Districts when the Board deems it desirable to do so.

ARTICLE 9. COMMITTEES

9.1 Types of Committees and Terms of Memberships. The Committees of the Association shall consist of the Standing Committees as provided by the By-Laws and such Current Committees as may be established by the President or the Board of Directors. Current Committees may be established in order to carry through one project or to give voice to the Association in areas of special interest. Each committee shall prepare an annual report to the Board of Directors. Current committees established in accordance with this article may be dissolved at any time by majority vote of the Board of Directors.

The terms of membership on Standing and Current Committees, when not specified in these By-Laws, shall normally be three years. Except for ex officio members no member may serve on a committee for more than six consecutive years without Board approval. Members of committees shall serve until their successors are appointed or elected.

Each Committee shall be governed by a Chair appointed by the President. All members of Standing and Current Committees shall be individual members of the Association.

9.2 Standing Committees. The Standing Committees are listed below.

A. Program Committee. The Program Committee for a given year shall consist of the previous year's Chair of the Committee and two individual members appointed by the President. The Committee shall be responsible for planning, coordinating and arranging the annual meeting.

B. Finance Committee. The Finance Committee shall consist of the Treasurer as Chair, and two individual members appointed by the President. Its duties shall be determined by the Board of Directors.

C. Nominating/Election Committee. The Nominating/Election Committee shall consist of four members appointed by the President with the consent of the Board of Directors. The Committee shall make nominations for office as provided in Article 6 of the By-Laws and certify to the Board of Directors the outcome of the voting upon candidates for office and upon any referendum to the members. As needed, the Committee shall also concern itself with developing mechanisms to insure proper conduct of elections. The four members shall serve staggered two-year terms. No member may serve more than one consecutive term.

D. Publication Committee. The Publication Committee shall be constituted as described in Article 10 in the By-Laws.

E. Constitution Committee. Not more than eight years after the adoption of the Constitution and By-Laws, a Constitution Committee shall be appointed by the President for the purpose of reviewing the Association's Constitution and By-Laws, and preparing a revision if necessary, to be submitted to the membership not more than ten years after the adoption of this Constitution, in accordance with provisions and exceptions of ARTICLE XII of the Constitution. In the event that a major revision of the Constitution and By-Laws is considered by the Constitution Committee, requiring a great deal of time, the Board of Directors may extend the life of the current Constitution and BY-Laws for one year at a time.

ARTICLE 10. PUBLICATIONS

10.1 Editorial Boards. Each periodical published by the Association shall have an Editorial Board, consisting of all its Editors and such other

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personnel as may be designated by each Editor.

10.2 Publication Committee. The Publication Committee shall consist of the Board-appointed Editors of each periodical published or co-owned by the Association, the Secretary (ex officio), and non-editor members of the Association at least equal in number to the number of editors. The non-editor members shall be appointed by the President with the consent of the Board of Directors and one of these members shall be designated as Chair. The non-editor members shall be appointed for three-year terms, with one-third of these members retiring at the end of each year. Proposals for the publication by the Association of periodicals, directories, special reports, books or other professional material, or for publication in cooperation with other societies or organizations of such materials, shall be referred to the Committee for its recommendations, prior to action by the Board of Directors. The Committee shall generally supervise the publication policy of the Association and make recommendations to the Board of Directors with respect to the editorial policy of the Association's various publications.

10.3 At suitable intervals, a directory of all classes of members, the Constitution and the By-Laws of the Association shall be published and sent to each member.

ARTICLE 11. RESOLUTIONS

11.1 In no case shall the name of the Association be used in connection with any partisan or political issue, except insofar as the resolution of the Association refers solely to a matter involving the interest and objectives of the Association. Such a resolution shall require a favorable vote by at least two-thirds of the entire Board of Directors before it may be released for publication or transmission outside the Association. When there is doubt as to whether an issue is to be considered partisan or political, a majority vote of entire Board of Directors shall be required to declare it not partisan or political.

11.2 Resolutions and recommendations of Districts, Sections or Committees of the Association shall be so phrased as not to commit the Association or its membership.

ARTICLE 12. AMENDMENTS TO BY-LAWS

12.1 Proposal. Amendments to the By-Laws may be proposed by the Board of Directors or by a petition signed by at least 25 individual members. An amendment originated by petition shall be referred to the Board of Directors for its recommendation as to ratification.

12.2 Ratification. Following action by the Board of Directors, the Secretary shall publish a copy of the proposed amendment and the results of the Board of Directors vote on recommending ratification in the next issue of a newsletter, inviting comment. At least four weeks shall elapse between publication and the vote on an amendment. If during this period at least 25 individual members of the Association so petition, the amendment shall be submitted to the individual members for a mail vote. A minimum of a two-thirds affirmative vote of the individual members voting shall be required for ratification. If no such demand for a membership ballot is received, the amendment may be ratified or rejected by the Board of Directors. Ratification shall occur whenever two-thirds of the members of the Board of Directors have submitted an affirmative vote either in person or by mail.

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CHEN CHI H., DEPT.OF ELECTR.ENGIN., S.E. MASS. UNIV., N. DARTMOUTH MA, 02747 U.S.A.,	陳季鎬, ,	PROF. & CHAIRMAN, PH.D. 1965, 617-999-8475 (O), , C H,	CHEN HAN-MING, DEPT. OF STATISTICS, VPI & STATE UNIVERSITY, BLACKSBURG VA, 24061 U.S.A.,	陳漢明, ,	, ,

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PH.D. 1982,
315-423-3892 (O),
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415-894-4653 (H),
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305-284-2575 (O),
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CHEN ZHAO-GUA, INST. OF APPLIED MATH., ACADEMIA SINICA, P.O. BOX 2734 10000, BEIJING CHINA,	陳召國, 407 UNIT 14, ACADEMIA SINICA RESID., SAN-HUAN W. RD., BEIJING CHINA, R.O.C.,	, B.SC.1965 SCIENCE U., 256-2937 (O), ,	CHENG SU-CHUN, UNIV.OF WISCONSIN, 1210 W. DAYTON ST., MADISON WI, 53706 U.S.A.,	鄭素純, ,	STUDENT, B.S.1987;CHIAO TUNG U., ,
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協會需要您的支持 — 籌款小組簡報

八月間在紐奧良的聚會中，大家都感到協會迫切的需要廣開財源，一個籌款小組的成立乃十分必要。九月初，一封由傅權及鄭惟孝擬成的籌款信初稿即開始在小組成員之間傳閱。經過大家意見匯集之後，於十一月定稿寄給各位會員。

這封募款信是針對會內各個人會員為對象而擬定的。除了個人會員外，我們還希望向各公司團體，及政府機關籌募。此外我們也希望向協會以外的人仕們籌款。目前已收到捐款 US\$5,200。距我們的目標（五年內籌措五萬美元）尚有一段距離。因此在這裡再向大家呼籲一下，請各位踴躍捐輸。

我們對於各種籌款工作的建議，也十分歡迎。各位會員如果對我們的工作方向，做法有任何建議，亦請直接和籌款小組各成員聯絡。歡迎大家能出錢出力，共襄盛舉。

徵求協會會徽

歡迎各全仁發揮設計長才，提供高見。會徽圖案最好能表達本會精神及目標。請將作品於1989年4月底前寄至

Dr. Smiley W. Cheng, Secretary

I. C. S. A.

c/o Department of Statistics

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協會理事會負責甄選，優勝作品，獎金壹百元。將於年會（1989年8月）上發表並頒獎。

（如會徽是以電腦製作，請附上磁碟拷貝一份。未採用作品可如願寄回原作者。）