

行政院及所屬各機關出國報告

(出國類別：考察)

參加 GLOBECOM 2000 全球通信會議  
及 IEEE ComSoc GICC 會議出國報告書

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## 1 目的

中華電信為 IEEE GLOBECOM 2002 會議（以下簡稱 GLO'02）主要承辦單位，陳前董事長與薛副總經理分別為大會主席、副主席，依大會章程與規定，IEEE 為實際掌握各主辦單位之工作進度，每半年分別在 GLOBECOM/ICC 會議排定兩天議程，討論會議之一般性議題與聽取各主辦單位之進度報告，因此本次考察係向 GICC 委員會報告【GLOBECOM 2002 Taipei 會議】籌備工作進度。

此次 IEEE GLOBECOM 2000 會議在十一月廿七日至十二月一日於美國舊金山舉行，故奉中華電信 89 年 11 月 21 日信人三字第 89A3002571 號函（薛副總經理）、89 年 11 月 14 日信人三字第 89A3002555 號函（陳處長與李股長）、89 年 11 月 15 日信人三字第 89A3002529 號函（蕭主任研究員）核准，由中華電信北區分公司薛副總經理紀建率團參加，團員包括中華電信會計處陳處長澤民（財務委員會主席）與李股長貴美（事務委員會委員）、研究所蕭主任研究員壽榮（秘書處）等共四人，前往美國舊金山參加【GLOBECOM 2000 全球通信會議及 IEEE ComSoc GICC 會議】。

參加會議目的如下：

- ◇ IEEE ComSoc GICC 會議：全程參與 GICC 委員會會議，了解學會政策與籌辦會議之需求，吸取各年度會議籌辦單位之規劃與工作經驗，並報告 IEEE 2002 年台北全球通信會議之我國籌備委員會籌辦進度（大會主題、會徽、預借基金、註冊費、初步預算及技術議程等）。
- ◇ GLOBECOM 全球通信會議：實地考察【GLOBECOM 2000 San Francisco 會議】之辦理情形，學習舉辦此類大型會議之經驗，以續推動未來 GLO'02 相關工作。

在報告我國籌辦工作之各項進度方面，由於此次報告工作項目事前已在國內由薛副總經理召開工作討論，就大會主題、會徽、預借基金、註冊費、初步預算等研商，其中初步預算也由本公司負責之財務委員會請各委員會提供資料彙整並做審查，工作雖然繁瑣但均能及時完成；而有關大會主題部份也與台灣大學負責之技術委員會做技術討論與報告。

## 2 過程

此次會議以參加 ComSoc 委員會會議為主，計有 GICC、GLOBECOM 2001 TPC、GLOBECOM 2002 TPC 與 GLOBECOM 2000 Wrap-up 等會議，另外，考察 GLOBECOM 2000 會議的五天舉辦過程為輔，以掌握在整個會議規劃、籌劃與辦理等實務，技術部份議程參加的項目僅有 Executive Business Sessions E-1、E-5、High-Speed Networks Symposium，故此份心得報告以 ComSoc 相關會議內容為主。

## 2.1 行程

日期	離開地點	到達地點	時間	工作摘要	交通工具
89.11.26	桃園 中正機場	舊金山	2145- 1615	行程	華航 CI004
89.11.27- 89.11.30	舊金山		共四天	參加【GLOBECOM 2000 全球通信 會議及 IEEE ComSoc GICC 會議】	
89.12.1/2	舊金山	台北	1205- 0605	返程	華航 CI007

- 11/27 參觀大會註冊處、各會場、展示場等佈置。  
 參加 VIP Reception  
 參加 T-16 Tutorial “New Generation Multi-Service  
 Communication networks”  
 參加 Welcome Reception
- 11/28 參加 Plenary/Keynote Address  
 參加 Executive Business Sessions E-1 Executive Panel of Service  
 Providers --- “Vision & Projections for The Next Five Years”  
 參加 GICC 會議  
 參加 Reward Luncheon  
 參加 ICC 2001 TPC/GLOBECOM 2002 TPC 會議
- 11/29 參加 GICC 會議，並報告台北籌辦進度。  
 依序聽取各大會之報告：  
 ◇ ICC’00, GLO’00, GLO’01, ICC’02, GLO’02, ICC’03,  
 GLO’03, ICC’04  
 參加 Executive Business Sessions E-4 Executive Panel of Start-up  
 Company Investors and Supporters ---“Advice and Do’s and  
 Don’ts for Start-up Companies”  
 參加大會晚宴(Conference Banquet)，並有簡單大會交棒儀式，  
 由舊金山傳給芬蘭赫爾新基 ICC 2001，播放 ICC 2001 與  
 GLOBECOM 2001 之錄影帶。
- 11/30 參加 High-Speed Networks Symposium 議程  
 ◇ High Speed Networks Current Status and Future  
 參加 GLOBECOM 2000 之 Wrap-up Report 會議
- 12/1 GLOBECOM 2000 最後一天議程，參觀整個 Tutorials/Workshops  
 之舉辦情形，大會註冊處更改地點至 Fairmont Garden Room，  
 並在中午結束。
- 12/1,2 返程

## 2.2 會議議程及摘要

### 2.2.1 未來 GLOBECOM/ICC 會議

IEEE 通信學會 Meeting and Conference (M&C)之主席 Bill Robinson, GICC 委員會主席為 Terry Kero(Telesys Software Inc.)，副主席為 Doug Lattner(美國線上)，針對 GLOBECOM/ICC 會議 2000 年至 2005 年規劃如表 2.1。

表 2.1 GLOBECOM/ICC 未來會議規劃

年度	ICC	GLOBECOM	備註
2001	Helsinki, Finland 11 June	San Antonio, United States 25 November	
2002	New York, United States 28 April	Taipei, Taiwan 18 November	
2003	Anchorage, United States 11 May	San Francisco, United States	
2004	Paris, France	Dallas, United States	
2005		New York, United States	
2006		San Francisco, United States	
2007		Dallas, United States	

本次 GLOBECOM 會議與 ICC 會議有些差異，分成兩部份敘述如下：

1. 委員會議，IEEE ComSoc 所屬之組織、委員會、期刊負責單位、會議籌辦單位等內部會議，大致由總部負責在事前收集各委員會需求，有些是固定會議，其他變化不大。
2. 本次技術會議與 ICC 2000 有些差異，此次技術部份計有下列五種型態，後兩類需要再收取費用。
  - ◇ 技術議程(Technical Program)：為論文發表，主要供學術界發表論文及交流，但部份領域均有座談會，邀請產業界人士討論現況與為未來發展。
  - ◇ 主管業務議程(Executive Business Sessions)：為特定經營管理議題研討會，由大會選定 6 個議題討論。
  - ◇ 講授(Tutorials)：有 15 個。
  - ◇ 講習會(Workshops)：3 個。

### 2.2.2 IEEE 通信學會之委員會議

在舊金山舉行 GLOBECOM 2000 會議，IEEE 通信學會之委員會議議程詳表 2.2 (依字母排序)，其中 GLO 2002 TPC 會議係由台大李琳山教授與陳光禎教授召集。

表 2.2 ComSoc Committee Meetings at GLOBECOM 2000

Meeting	Date	Day	Start Time	End Time	Room	Hotel	Est Att
APB Steering Committee(closed)	27-Nov-00	Mon	4:00 PM	6:00 PM	Empire	Fairmont	20
APNOMS2001QC	28-Nov-00	Tue	4:00 PM	5:15 PM	Stanford	Mark Hopkins	10
Asia Pacific Board	28-Nov-00	Tue	6:00 PM	9:00 PM	George Smith	Mark Hopkins	45
Awards Committee	29-Nov-00	Wed	7:00 AM	9:00 AM	Stanford	Mark Hopkins	12
Communication Theory	29-Nov-00	Wed	5:00 PM	7:00 PM	Hunt	Fairmont	40
Communications Quality& Reliability	28-Nov-00	Tue	5:30 PM	7:00 PM	Garden	Fairmont	15
Communications Software	7-Nov-00	Mon	12:00 PM	1:45 PM	George Smith	Mark Hopkins	25
Communications Switching and Routing	29-Nov-00	Wed	7:00 AM	8:30 AM	Florentine	Mark Hopkins	20
Communications Systems Integration & Modeling	29-Nov-00	Wed	5:00 PM	7:00 PM	Stanford	Mark Hopkins	20
ComSoc Board of Governors	29-Nov-00	Wed	1:00 PM	6:00 PM	Peacock Court	Mark Hopkins	40
ComSoc Board of Governors	30-Nov-00	Thu	7:00 AM	2:00 PM	Peacock Court	Mark Hopkins	40
ComSoc Board of Governors Breakfast	30-Nov-00	Thu	7:45 AM	8:30 AM	Peacock Court	Mark Hopkins	35
ComSoc Board of Governors Lunch	29-Nov-00	Wed	1:00 PM	2:00 PM	Peacock Court	Mark Hopkins	40
ComSoc Board of Governors Lunch	30-Nov-00	Thu	12:30 PM	1:30 PM	Peacock Court	Mark Hopkins	30
ComSoc Nominations & Elections	28-Nov-00	Tue	3:00 PM	6:00 PM	Garden	Mark Hopkins	11
EAME Board	28-Nov-00	Tue	10:00 AM	12:00 PM	Frontier	Fairmont	12
Enterprise Networking	30-Nov-00	Thu	11:15 AM	1:30 PM	Board Room	Mark Hopkins	15
GICC	28-Nov-00	Tue	9:00 AM	11:45 AM	Hunt	Fairmont	20
GICC	29-Nov-00	Wed	8:00 AM	2:00 PM	Hunt	Fairmont	30
GICC Exhibits	27-Nov-00	Mon	1:30 PM	4:30 PM	Frontier	Fairmont	15
GLO 2000 Wrap-Up	30-Nov-00	Thu	1:30 PM	5:00 PM	Garden	Fairmont	60
GLO 2001 Planning Committee	29-Nov-00	Wed	1:00 PM	5:00 PM	Frontier	Fairmont	12
GLO 2001 TPC	28-Nov-00	Tue	8:00 AM	12:00 PM	Grand Ballroom Lounge	Fairmont	20
GLO 2002TPC	28-Nov-00	Tue	3:30 PM	5:00 PM	Grand Ballroom Lounge	Fairmont	40
Home Networking Workshop Planning	28-Nov-00	Tue	3:00 PM	4:30 PM	Willard 1 & 2	Mark Hopkins	30
ICC 2001 TPC	28-Nov-00	Tue	8:00 AM	6:00 PM	Barclay 1 & 2	Mark Hopkins	30
ICC 2001 TPC	29-Nov-00	Wed	8:00 AM	6:00 PM	Barclay 1 & 2	Mark Hopkins	30
ICC 2002 TPC	28-Nov-00	Tue	2:30 PM	3:30 PM	Grand Ballroom Lounge	Fairmont	20
IEEE Communications Magazine	30-Nov-00	Thu	7:00 AM	9:00 AM	Barclay 1 & 2	Mark Hopkins	40
IN 2001 Tech Program Committee	29-Nov-00	Wed	9:00 AM	3:00 PM	State	Fairmont	20
Information Infrastructure	29-Nov-00	Wed	12:00 PM	1:30 PM	Stanford	Mark Hopkins	20
Journal & Magazines	27-Nov-00	Mon	8:30 AM	2:00 PM	Empire	Fairmont	20
Local Member Reception	28-Nov-00	Tue	5:00 PM	6:30 PM	Cirque	Fairmont	60
M&C	28-Nov-00	Tue	2:15 PM	5:00 PM	Frontier	Fairmont	10
Marketing Board	29-Nov-00	Wed	12:00 PM	1:00 PM	Garden	Mark Hopkins	8
Member Prog Dev Board (MPDB)	29-Nov-00	Wed	8:45 AM	10:30 AM	Garden	Mark Hopkins	15
Membership Development Council (MDC)	29-Nov-00	Wed	10:30 AM	12:00 PM	Garden	Mark Hopkins	15
Multimedia Communication	28-Nov-00	Tue	5:00 PM	7:00 PM	Empire	Fairmont	25
Network Oper. & Mgmt. Tech. Comm.	28-Nov-00	Tue	5:30 PM	7:30 PM	Willard 1 & 2	Mark Hopkins	25
North American Region	27-Nov-00	Mon	7:00 AM	8:00 PM	Ballroom West	Stanford Court	40
North American Region	28-Nov-00	Tue	7:00 AM	12:00 PM	Six Continents	Mark Hopkins	35
North American Region Breakfast	27-Nov-00	Mon	7:00 AM	9:00 PM	Ballroom East	Stanford Court	40
North American Region Breakfast	28-Nov-00	Tue	7:00 AM	8:00 AM	George Smith	Mark Hopkins	35
North American Region Lunch	27-Nov-00	Mon	12:30 PM	2:00 PM	Ballroom East	Stanford Court	40
Personal Communications	29-Nov-00	Wed	2:30 PM	4:30 PM	Six Continents	Mark Hopkins	30
Radio Communications Committee	28-Nov-00	Tue	6:00 PM	7:00 PM	Florentine	Mark Hopkins	15
Satellite & Space Communications Committee	29-Nov-00	Wed	7:30 AM	9:00 AM	Garden	Fairmont	30

### 2.2.3 GLOBECOM 2000 議程

GLOBECOM 2000 議程為 11 月 27 日至 12 月 1 日，共五天，其議程詳附件一，下面就此次會議中與電信應用較為相關之 Executive Business Sessions、Tutorials、Workshops、Technical Program 等四部份議程說明於下面各節。

#### 2.2.3.1 Executive Business Sessions

主管業務議程(Executive Business Sessions)，共有下面 6 個 Sessions：

- a. Executive Panel of Service Providers :  
Vision and Projections for the Next Five Years (E-1)
- b. Executive Panel of Equipment Providers :  
Vision and Projections for New Products (E-2)
- c. Executive Panel of Telecom Investors and Analysts :  
What's Hot and What's Not, And Why! And Forecasts (E-3)
- d. Executive Panel of Start-up Company Investors and Supporters :  
Advise and Do's and Don'ts for Start-up Companies (E-4)
- e. Executive Panel of Start-up Companies :  
Company Overviews, New Products, Lessons Learned and Advise for New or Current Start-ups (E-5)
- f. Panel for Quality and Reliability for Next Generation Networks and Services :  
Current Status and Future Roles of QoS and Reliability in Next Generation Networks (E-6)

#### 2.2.3.2 講授(Tutorials)

講授(Tutorials)：15 個 Tutorials，598 人登記，在會議第一天（11 月 27 日）與最後一天（12 月 1 日）舉行，項目如下：

- T-01 UMTS/IMT 2000
- T-02 Orthogonal Frequency Division Multiplexing for Wireless Communications
- T-03 Digital Communications over Generalized Fading Channels: A Unified Approach to Performance Analysis
- T-04 Interference Analysis and Suppression Techniques for Wireless Communications
- T-05 Analytical Tools for Wireless Communications Systems Design
- T-06 Adaptive Wireless Multimedia Communications: A design Paradigm for High-End TDMA, CDMA and OFDM Systems
- T-07 PM Mobile Internet Services Over the 4th Generation Wireless Communications Networks and Beyond

- T-08 Internetworking: Voice Over Packet-switched Networks and IP Over X
- T-09 Intranets and Extranets: Security and Cost Issues
- T-10 Policy Enabled Networking
- T-11 Optical Internet: Available Technologies and Challenges
- T-12 Realizing the Multi-wave Optical Network
- T-13 Broadband Satellite Systems: A Network Perspective
- T-14 Discrete-Event Simulation for Communication Links and Networks
- T-15 Service Level Agreements (SLA) --- Cancelled
- T-16 New Generation Multi-service Communication Networks

#### 2.2.3.3 講習會(Workshops)

GLOBECOM 2000 講習會(Workshops)有 2 個，34 人登記。包括：

- ◇ Application of Virtual Reality Technologies for Future Telecommunication System (WS-01)、
  - ◇ Service Portability and Virtual Customer Environment (WS-02)
- 與 Internet 學會合辦一個 Ipv6 講習會，計有 84 人參加，名稱如下：
- ◇ Internet Protocol Version 6 Workshop IPv6: The New Internet Tidal Wave (IP-01)。

#### 2.2.3.4 技術議程 (Technical Program)

技術議程(Technical Program) 分 7 個 Sessions 同時進行三天，由 11 月 28 日至 11 月 30 日，：

- ◇ Broadband Wireless
  - a. Symposium Chair: Willie Lu, Siemens, USA; Qi Bi, Bell Labs, USA
  - b. Committee Sponsors: Personal Communications; Radio Communications; Satellite and Space Communications
- ◇ Global Internet
  - a. Symposium Chair: Dinesh Verma, IBM, USA; Naohisa Ohta, Sony, Japan
  - b. Committee Sponsors: Internet, Computer Society on Computer Communications, Information Infrastructure, Communication Switching, Signal Processing and Communications Electronics
- ◇ High-speed Networks
  - a. Symposium Chair: G. S. Kuo, National Central University, Taiwan; Ness B. Shroff, Purdue University, USA
  - b. Committee Sponsors: Transmission & Access and Optical System; Signal Processing and Communications Electronics; Communications Switching and Routing
- ◇ Communication Theory,



- a. Symposium Chair: Moe Win, AT&T Labs-Research, USA; Andrea Goldsmith, Stanford University, USA
- b. Committee Sponsors: Communication Theory; Radio Communications; Signal Processing for Storage; Signal Processing and Communications Electronics
- ◇ Satellite Communications
  - a. Symposium Chair: Sastri Kota, Lockheed Martin, USA
  - b. Committee Sponsors: Satellite Communication
- ◇ Photonic Network Technologies Architecture & Protocol
  - a. Symposium Chair: Jaafar Elmighani, University of Wales Swansea, UK
  - b. Committee Sponsors: Transmission & Access and Optical System
- ◇ General Conference

## 2.3 參加會議內容

### 2.3.1 VIP 接待會(VIP Reception)

VIP 接待會為 11 月 27 日下午五時至七時，在 Fairmont 旅館之頂樓套房(Penthouse Suite)舉行，由大會主席 Terry Kero 主持，主要為歡迎 ComSoc 重要成員，包括 ComSoc 主席、副主席與各理事(Board of Governors)、GICC 委員、MAL 委員，由薛副總經理與陳處長參加，為大會歡迎會之前置會議。

### 2.3.2 歡迎會(Welcome Reception)

歡迎會設在 Fairmont 旅館之豪華大廳(Grand Ballroom)，時間為 11 月 27 日晚上 6 時至 9 時，參加會議之人員及其眷屬均可參加，為免費性質，由 3Com 公司贊助此項酒會，大會以西式自助餐方式招待與會者及其眷屬，並佈置一個舞台，背景採用大會會徽-金門大橋，舞台上由表演者演奏音樂，參加者一邊使用餐點一邊與來自世界各地技術人員交談。

### 2.3.3 大會開幕典禮

11 月 28 日上午 8:15-8:45 在 Fairmont 旅館之 Gold Room 舉行大會開幕典禮，大會開幕由大會主席 Terry Kero 主持，大會基本策略演講(Keynote Address)由 AT&T Labs 之總裁(President) Dr. David Nagel 演講，他也是 AT&T 首席技術長(Chief Technology Officer)，演講主題為 3G Internet。

演講內容主要電信、網際網路與第三代行通信間之關係，內容包括：

- Internet : Big Deal ?
- Generations of internet
- Changing Landscape of Telecom

- Key Component of New Telecom Infrastructure
- Networks of Light
- Revolution in Access Technology
- 3G: Wireless Strategy
- Broadband Turns Clients into Servers
- Broadband Phone/Appliance
- Virtual Communication Services – Basic Architecture
- Unified Messaging

#### 2.3.4 服務供應商之主管專題小組 E1

服務供應商之主管專題小組(Executive Panel)E1 主題為：Vision and Projections for Next Five Years，時間為 11 月 28 日 9:30-11:30am，地點在 Fairmont Hotel/Gold Room，參與討論小組成員有 Panelists：薛副總經理（中華電信）；Rod Neison, Chief Technology Officer, AT&T wireless; Bill Smith, Chief Technology Officer, Bell South（未出席）；Tom Rowbotham Director, Group Technology, British Telecom; Milo Medin, Chief Technology Officer, Excite@Home等五位，參加人員大部分來自產業界主管與經理人，約有百餘人。

薛副總經理之報告資料如附件二，BT Tom Rowbotham 報告重點偏重在策略方面，主要為未來十大預言，如頻寬、無線商務、電影與遊戲之隱私，前三大為：

- 非羅馬之 URLs 與語言翻譯會出現 (Non Roman URLs & language translation appear)
- 語音是主要 3G 應用 (Voice is the killer 3G applications)
- 投機資本家會破產 (Many venture capitalists go to wall)

Milo Medin 報告重點為：

- Voice model 之 VoIP、SONET Ring 及 IP 骨幹
- 便宜之服務：Cable 與 ADSL
- 無線、衛星與 MPLS 逐漸與 IP 結合
- IP 住宅網路
- 寬頻連接與傳送之商品
- 整合服務內容
- 光纖到家包括 FTTH、FTTC，以及光纖地下化與短缺
- 補助大計畫之經濟策略

AT&T Wireless 之 Rod Nelson 報告偏重在無線方面，重點為：

- 應用標準與協定
- 產業聚合：UTRAN/GERAN 架構、EDGE/UMTS、Global operator's architecture

- 頻譜分配：策略與需求（無線網際網路、網路技術與元件技術）
- 傳送網路
- 語音與數據整合(Bundled Services)
- LMDS 是提供給建築大樓用，而非個人用
- 3G 之範圍、特殊需求與行銷

### 2.3.5 頒獎午餐

午餐時間、地點與贊助廠商如下：

地點	Fairmont Hotel/Grand Ballroom
時間	11/28 12:00 PM – 1:45 PM
贊助廠商	AT&T

頒獎議程如下：

- Introductory Remarks  
由 IEEE 總裁 Roberto de Marca 做介紹性的評論。
- IEEE Fellows 2000 Introduction  
由頒獎委員會主席 Hal Soboll 頒獎給 Velio 通信公司之首席系統工程師 Gopalakrishnan Ramamurthy，表揚他在交換機與路由器之訊務排程與呼叫控制、寬頻網路之 Flow & Congestion Control 之貢獻。
- Career Awards 2000  
由頒獎委員會主席 Hal Soboll 頒發三個獎項：Edwin Howard Armstrong Achievement Award 為加州大學聖地牙哥分校之 Laurence B. Milstein，表揚他在商業與軍用系統之展頻與 CDMA 無線通信之貢獻。Donald W. McLellan Meritorious Service Award 為 Telcordia 資深研究員 Douglas N. Zuckerman，表揚他對 IEEE 技術委員會、Symposia、理事會與會議主任之貢獻。Award for Public Service in the Field of Telecommunications 為 MIT 計算機實驗室之資深研究員 David D. Clark，表揚他協助政府了解 Internet 與改善社會之應用。
- Service Awards 2000  
由頒獎委員會主席 Hal Soboll 頒講給 Ross C. Anderson，表揚他 15 年來對 GLOBECOM/ICC 會議與 GICB 主席任內之貢獻。
- Chapter of the Year Award  
由會員發展之副總裁 Doug Zuckerman 頒獎給阿根廷之 Ricardo A. Veiga (Chapter Chair)。
- Introduction of GLOBECOM 2000 General Chair  
由 IEEE 通信協會會議組主任 Bill Robinson 頒獎給 GLOBECOM 2000 大會主席 Terry Kero。
- Closing Remarks  
由 IEEE 總裁 Roberto de Marca 做結語。

### 2.3.5 ICC 2002 TPC 與 GLOBECOM 2002 TPC 會議

Mark J. Karol 報告其技術議程規劃如下：

- ◇ 10 個 Symposia
- ◇ 技術議程架構原則
  - a. 論文提交後再訂定 Sessions & Symposia
  - b. 論文處理與提交全部採用電子方式
  - c. 預先建立 Symposia 議程委員會
  - d. 採用邀請論文或主講者方式
- ◇ Symposia 主題之選擇方式
  - a. 需要 IEEE 各技術委員會提供建議，包括主題與主席。
  - b. 初步主題規劃如下：

1	Communication Theory	2	High Speed Networks
3	Future Wireless Communication System	3	3 <sup>rd</sup> Gen. Wireless Communication System
5	Next Generation Internet	6	Access Networking
7	Enterprise Applications & Services	8	Multimedia Services & Technical issues
9	Advanced Signal Processing for Communication	10	Satellite Communications
11	Optical Network	12	Network Management

GLOBECOM 2002 TPC 由台大陳光禎教授報告規劃，預計第一次 CFP 為 2001 年 5 月，截稿為 2002 年 2 月，審查為 2002 年 4 月。

### 2.3.7 GICC 委員會

GICC 委員會議為 11 月 28-29 日共兩天，其議程詳附件三，而此兩天會議摘要敘述如後兩節。會議由主席 Terry Kero、副主席 Doug Lettner 輪流主持，其他參加者為 1999、2000 與 2001 年個會議主席，另外為六位 MAL 委員 Bill Harrison、Mark Karol、Bob Blake（我國主辦 GLO'00 之 GICC Advisor）等，ComSoc 之會議組主任 Bill Robinson、Tom Stevenson、Debora Kingston、Gayle Weisman，以及未來各會議主辦單位之相關人員。

#### 2.3.7.1 11/28 會議

##### (1) GICC 委員

目前為 13 位，如下表：

Expires 12/00	Expires 12/01	Expires 12/00
Ian Mansfield ICC'99	Bill Oliver ICC'00	Yrjo Neuvo ICC'01
Roberto deMarca GC'99	Terry Kero GC'00	Fred Chang GC'02
Paul Hartman MAL	Bill Harrison MAL	Bob Blake MAL
Mark Karol MAL	Doug Lettner MAL	Mike Kincaid MAL
	Salah Aidarous - TAC Rep	

第一欄委員於 2000 年底到期後將另外增加 2 位 2002 年會議主席為委員。

##### (2) 運作事件 Operational Matters

- ◇ Doug Lattner 宣讀自上次會議以 E-mail 同意之事項：
  - a. GLO'02 Taipei 增加一位 GICC Advisor 為 Terry Kero
  - b. GLO'02 San Antonio 會徽(Logo)
  - c. ICC'01 大會主席換為 Dr. Yrjo Neuvo
- ◇ 政策或準則—GLOBECOM/ICC 技術議程準則，包括：
  - a. TPC 主席需要參加主要 ComSoc 會議
  - b. 組織 TPC
  - c. 處理投稿論文
  - d. 徵求論文與 Mini-symposiums
  - e. 邀請論文與 Session 主席
  - f. 服務、應用與系統 Sessions
  - g. 講授與講習會(Tutorials & Workshops)
  - h. 統計
- ◇ 學生發表論文贊助申請原則

(3) 費用

委員會建議之 2002 年會議各項註冊費用如下：

2002	IEEE Member	Non-Member
Limited-Advance	410	520
-At Conf	500	650
One Day-Advance	270	370
-At Conf	330	430

全部註冊(Full Registration)需要加計頒獎午宴與大會晚宴之費用。

2002	Advance/At Conference	
	Paper	CD-ROM
Additional Record	120	10

2002	Advance/At Conference	
	Paper	CD-ROM
Student and Life Member	100	25

上列費用在非北美地區可以是當地情況調整，但須經 GICC 同意。

(4) 定義：Track、Symposium、Mini-Conference、Co-location、Affiliate

- ◇ Track：會議之基本方塊，不收費且無另外論文集。
- ◇ Symposium：有特性之 Track，對主席有更多論文選擇權力且與市場重點較有關係。
- ◇ Mini-Conference：會議主要 Tracks 外之技術議程重點，通常是新且較有興趣與問題之主題，需要另外收費且不同論文集。
- ◇ Co-location：與非 IEEE 組織共用會議地點。
- ◇ Affiliate：兩個 IEEE 會議決定同時在一個會議地點舉行，如此次 GLOBECOM 2000 之 Ipv6 Forum。

(5) ICC 2001

ICC 2001 會議芬蘭委員會報告其論文審查情形、技術議程概況與財務計

畫書，計有 9 個 Symposia、6 個業務應用會議(BAS)、24 個半天 Tutorials，共有 1145 篇論文提出，分類如下：

Communications Quality and Reliability and QoS:	103 paper(s)
Communications Software:	6 paper(s)
Communication Switching and Routing:	54 paper(s)
Communications Systems Integration & Modeling:	33 paper(s)
Communication Theory:	93 paper(s)
Computer Communications:	49 paper(s)
Enterprise Networking:	3 paper(s)
Gigabit Networking:	7 paper(s)
Information Infrastructure:	6 paper(s)
Interconnections in High-Speed Digital Systems:	1 paper(s)
Multimedia Communications:	37 paper(s)
Network Operations and Management:	33 paper(s)
Personal Communications:	101 paper(s)
Radio Communications:	118 paper(s)
Satellite and Space Communications:	35 paper(s)
Signal Processing and Communications Electronics:	59 paper(s)
Signal Processing for Storage:	24 paper(s)
Transmission, Access and Optical Systems:	34 paper(s)
Internet security:	0 paper(s)
Voice Over IP:	0 paper(s)

#### (6) 修正之 GICC 憲章

界定 GICC 委員會為通信學會會議組之一部份，概述有關 GICC 功能、組織與策略，正式文件於會議前送給相關委員，主要變動如下：

- ◇ 配合通信學會總裁與會議組主任，更改委員任期從偶數年開始。
- ◇ 增加第二位副主席，重組其責任為策略規劃副主席、營運副主席。
- ◇ 委員由未來通信學會總裁、會議組主任與現任 GICC 主席組成之選舉委員會指派。
- ◇ 維持 12 位投票委員但增加第 13 位，為 IEEE 技術工作審議會 (Technical Activities Council - Liaison) 投票委員。
- ◇ 規劃會議格式第一天為策略性，第二天為運作性。
- ◇ 將 IEEE 通信學會幕僚正式定位為秘書。

#### 2.3.7.2 11/29 會議

##### (1) GICC 展示研究小組、主要會議矩陣、GICC 決策矩陣

由 Tom Stevenson 提供一份邀請書(RFP)，包括公司概述、市場研究與行銷計畫 RFP、展示銷售與管理 RFP 等三部份，配合 IEEE 50 週年慶，目標在 IEEE ICC 2002 會議吸引到 100 家廠商，3000 位參加者。

因此，需要在原有研究會議(Research Track)增加一系列應用會議(Application Track) (包括展示部份)，以吸引新產品、新公司、新系統等，GICC 會議展示市場列舉如下：

- ◇ GICC 會議之學術與研究單位參與者，約 1,000 人。

- ◇ 未參加 GICC 會議之通信學會會員，約 54,000 人。
- ◇ IEEE 會員但非通信學會會員，而對通信產業有興趣者，約 50,000 人。
- ◇ IEEE 會員但非前述各類，約有 200,000 人。
- ◇ 非 IEEE 會員。

主要會議矩陣如附件四，GICC 決策矩陣則用以檢查各年度會議之規劃狀況，如附件五。

(2) GLOBECOM 2000 舊金山報告

報告此次會議之論文 Accept Rate 35%，參加 Tutorials/Workshops 人數約有 700 人，大會各會場設備處理情形及展示狀況。

(3) ICC 2000 紐奧良報告

Bill Robinson 提出最終財務報告，並自評為 C+，其財務報告詳附件六。

(4) GLO'01 聖安東尼奧

報告該籌委會規劃狀況，報告內容包括技術、事務及財務等部份，技術部份由 Arthur L. Herley 報告，規劃情形如下：

	Current	Projected
General Sessions	33	32
Symposia	6	9
Sessions	6	10
Workshops	1	4
Tutorials	0	10
Business Sessions	0	0
Paper Submitted	0	800
Papers Accepted	0	250

財務報告該籌委會配合展示所擬定募款計畫書，其贊助層級共分金、銀、銅與純展示等四層，如下表：

Levels of Participation	Exhibit Space	Sponsored Students	Corporate Speakers	Patron Admissions
Gold(\$50,000)	20'x50'	3	3	30
Silver(\$25,000)	20'x30'	2	2	20
Bronze(\$10,000)	10'x20'	1	1	10
Exhibitor Only (\$5,000)	10'x10'	0	0	5

事務部份則報告制服、註冊等規劃情形。

(5) ICC'02 紐約

由 IEEE Communications 雜誌主編 Mark J. Karol 報告該技術委員會之規劃狀況，包括：

- ◇ Sessions 與 Symposia 會在論文審查與選擇後安排。
- ◇ 將充分利用 Invited Papers 與主講者方式。
- ◇ 需要其他 IEEE 技術委員研討。

(6) ICC'04 巴黎

報告該會議之主席、副主席 Jacques Van、技術議程主席 Hikmet Sari 與事

務部份，會議地點為 Palais Des Congres，日期為 6 月 27 日至 7 月 2 日。技術議程規劃為 Tutorials/Workshops (星期日)、Sessions (星期一至三)、Tutorials/Workshops (星期四)，旅館費率同舊金山，交通為地鐵，會議室分布在兩個旅館。

(7) GLO'02 台北

由北區分公司薛副總經理報告整體情形 (詳附件七)，台大陳光禎教授報告技術議程規劃，總公司陳澤民處長報告初步財務計畫書 (詳附件八)，委員會同意我國所提之主題、技術議程規劃與財務計畫，技術部份需要將報告資料儘速放到網站上去，以利 IEEE 各技術委員會提供建議，財務部份需要再修正，並事先於一個月前送給委員會副主席 Doug Lattner 審查。

(8) ICC'03 安克拉治

報告該籌委會之會議主席、副主席、財務委員會主席等組織狀況。

2.3.8 新公司投資者主管轉提小組 E4

新公司投資者之主管專題小組(Executive Panel) E4 主題為：Advice and Do's and Don'ts for Start-up Companies，時間為 11 月 29 日 2:00-4:00 pm，地點在 Fairmont Hotel/Gold Room，主持者為 Lucien Ruby，參加者有 Dan Eilers (Vanquard 投資夥伴)、Rick Thau (Interwest 投資夥伴)、Josh Coopperman (財務顧問)，重點如下：

- ◇ 初步為團隊建立與招募小組人員，且要最好與適當人員
- ◇ 發展產品與銷售服務是需要堅毅與不屈不撓
- ◇ 管理風險很高，約 75%
- ◇ 需要有策略規劃書
- ◇ 需要考慮資本與技術變化、市場改變與觀念
- ◇ 開始階段的工作要仔細了解
- ◇ 銷售要注意耐心、能力與資金
- ◇ 客戶重視公司評估

2.3.9 大會晚宴

大會晚宴時間、地點與贊助廠商如下：

地點	Fairmont Hotel/Grand Ballroom
時間	11/29 7:00 PM - 9:00 PM
贊助廠商	Nokia

大會晚宴分三部份進行，第一部份頒發“3<sup>rd</sup> Millennium Medal Presentations”，表揚對通信技術有特殊成就與 ComSoc 有特殊貢獻者，此項獎項自 1984 年 IEEE 一百年大會開辦迄今，共有 65 位受獎人；頒獎由 ComSoc 總裁親自主持與介紹，其得獎人共 18 位：

- ◆ Paul Baran
- ◆ Roberto de Marca
- ◆ Vinton G. Cerf
- ◆ Alan F. Culbertson
- ◆ Maurizio Decina
- ◆ George D. Dill



- ◆Irwin Dorros                      ◆Ferdo Ivanek                      ◆Irwin M. Jacobs
- ◆Robert E. Kahn                  ◆Noriyoshi Kuroyanagi            ◆John O. Limb
- ◆John C. McDonald              ◆Walter E. Noller                ◆Marvin K. Simon
- ◆Gottfried Ungerboeck        ◆Andrew J. Viterbi               ◆Stephen B. Weinstein

第二部份則由舉行會議交棒儀式，由芬蘭 ICC 2001 會議接手下次會議之主辦，芬蘭派出為數近 10 人代表團上台主持節目，並播放 ICC 2001 大會製作之具有該國特色之錄影帶，以及三個 Q/A，讓現場參與者答題後摸獎。

第三部份則是 GLOBECOM 2001 San Antronio 主席 Fredrick R. Chang 上台主持，播放該大會製作之錄影帶外，Fred 並提出一些問題，讓大家答題，但僅是舉手表示性質。

### 2.3.10 高速網路現況與未來 HS-5

高速網路現況與未來 HS-5，係在該技術議程中之座談，時間為 11 月 30 日 8:30-11:30 pm，地點在 Fairmont Hotel/Crystal Room，主持者為郭更生教授，參加者有 Charles Perkins (Nokia)、David Ward (Cisco)、Debajan Saha (Tellium)、Kou Miyake (NTT)、Naohisa Ohta (Sony)、Will Leland (Telcordia)、Pramod Pancha (Village Networks)、Werner Weippert (Deutsch Telekom AG) 等 7 人，討論重點如下：

- ◇ 寬頻 Internet 是未來需求
- ◇ 核心網路應為 DWDM、ATM 為基礎之 IP 光傳送網路，並考慮 NGN 演進計畫。
- ◇ 接取網路可能為 SDH、Router 或 Ethernet 交換
- ◇ 服務部份需要考慮到 Home Networking、EC 與 Video 應用，以及 Mobile IP 需求。
- ◇ 今年有很多 WDM 網路會完成，寬頻接取大概可完成 60%。
- ◇ 政府政策與開放標準非常重要。
- ◇ 光網路將會著重在品牌與協定方面。
- ◇ 頻寬服務是一個趨勢。

### 2.3.11 GLOBECOM 2000 總結報告(Wrap-up)

GLOBECOM 2000 會議之檢討報告，由大會主席 Terry Kero 主持，其報告議程如下：

報告項目	報告人
Introduction	Terry Kero
DAI (Don Anderson Inc.) Management	Terrie Heikkila
Registration	Terrie Heikkila
Marketing	Terrie Heikkila
Finance	Bob Beriault
Technical Program	Dale Harris
- Technical Sessions	Dale Harris

- Tutorials/Workshops - Executive Panels	Norival Figueira Terry Kero
IEEE ComSoc	Gayle Weisman
Logistics	Terrie Heikkila
Closing	Terry Kero

(1) 引言

大會主席概述整個會議為高品質世界級會議，地點很好、適切 Keynote 演講者與主管專案小組，超出預估的參加者與財務。

(2) 管理

項目	人數	項目	人數	項目	人數
經理	1	技術議程管理	2	會議室監控員	11
幕僚辦公室經理	1	註冊幕僚	7	餐點經理	2
餐點助理	2	財務經理	1	影音技術員	7
眷屬／客人接待	2	旅遊與資訊	1		

管理組織包括經理、技術議程管理與助理、註冊組長與助理，計有 36 人，服務範圍如下：

- ◇ 地點合約
- ◇ 運作，包括委員會議、後勤與工作規劃
- ◇ 議程發展，包括徵文(CFP)、論文提交與審查、作者通知
- ◇ 註冊
- ◇ 行銷與推廣，包括網站、前導議程(Advanced Program)與最終議程(Final Program)
- ◇ 現場管理
- ◇ 財務協調

(3) 行銷

- ◇ 前導議程(Advanced Program)共印製 65,000 份，於 2000 年 8 月 8 日送給 ComSoc 會員、灣區業務主管等。
- ◇ 其他行銷
  - a. 網站行銷至 11 月 1 日
  - b. 廣告：SPIE Optical Network 雜誌
  - c. 5000 份徵文(CFP)小冊
  - d. 徵文廣告包括：網際網路、IEEE Spectrum 與 Communication 雜誌。
  - e. 新聞報導
  - f. 展示崗亭(Booth)：GLOBECOM 99 與 ICC 2000

(4) 註冊

80%註冊人員採用線上註冊，10%用傳真，10%用郵寄。信用卡付款者中有 349、349、389 人分別使用 American Express、VISA、Master Card，另外，88 人使用支票，12 人使用 Wire Transfer，19 人使用現金。詳細註冊情形如下：

		Full	Limited	One-Day	Other	小計
Member	Through Oct. 24	246	238	33		517
	After Oct. 24	99	102	49		250
Non-Member	Through Oct. 24	84	56	6		146
	After Oct. 24	54	46	29		129
Student	Through Oct. 24				193	193
	After Oct. 24				92	92
Life	Through Oct. 24				24	24
	After Oct. 24				10	10
Guests Paid					76	76
IPv6					20	20
Press					12	12
Patrons					31	31
Staff					61	61
Instructors					82	82
Guests					29	29
總計					630	1672

各國與各地區註冊情形如下：

地區	人數	比率
USA/Mexico	978	63.2%
Canada	66	4.3%
Europe	227	14.7%
Central Europe/Africa	25	1.6%
South America	6	0.4%
Pacific Rim	195	12.6%
Middle East	26	1.7%
Australia/New Zealand	25	1.6%
總計	1548	100.0%

(5) 技術議程

- a. 技術論文共有 1,030 篇投稿，357 篇論文被接受，接受率為 35%。各地區被接受論文為：美國 152 篇，加拿大 23 篇，亞太 90 篇，歐洲 52 篇，中東／中歐／非洲 36 篇，拉丁美洲 4 篇。

b. 技術論文分類：

類別	Session 數	篇數
Broadband Wireless	9	56
Global Internet	10	28
High-speed Networks	7	44
Communication Theory	11	77
Satellite Communications	3	14
Photonic Network Technologies Architecture & Protocol	4	30
General Conference	17	105

c. Tutorials/Workshops 情形

共安排 16 個 Tutorials, 取消 1 個, 598 人註冊; 安排 2 個 Workshops,

34 人註冊。

Tutorials	T01	T02	T03	T04	T05	T06	T07	T08	T09	T10	T11	T12	T13	T14	T15	T16
註冊數	46	107	42	35	34	31	55	46	20	31	42	46	25	15		23

2 個 Workshops 註冊人數如下，另外，IPV6 有 84 人註冊。

Workshops	WS-01	WS-02
註冊數	9	25

d. 主管業務會議(Executive Business Sessions)

共有 6 個 (詳 2.2.3.1 節)。

(6) ComSoc 幕僚支援

一般性支援為提供過去會議資料、詳細會議時間表與 IEEE 部門聯繫，以及通信學會、IEEE 政策與程序之建議。

特殊性支援包括旅館、技術議程委員會、印刷、行銷、委員會會議與協調等。

(7) 後勤與事務

a. 確保頒獎午宴與大會晚宴之費用低於預算之 15-20%，且休息部份僅提供飲料服務。

b. 會議室安排主要為 A/V 需求在 8 星期前送給供應商，GLOBECOM 村有 Internet Café 規則、展示場、註冊與 24 小時保全。

c. 其他尚包括指標與講義等

(8) 財務

大會財務營收、支出與盈餘詳下表，比預先預算還好，主要在減少支出。

	預期 (美金)	預算 (美金)	差異 (美金)
收入	811,187	811,925	288
支出	680,499	697,020	15,521
盈餘	131,138	114,905	16,233

(9) 結語

大會主席 Terry Kero 對整個會議總結如下：

a. 非常好財務目標

b. 非常多與會者。

c. 很棒地點，期望 2003 年再見。

### 3 參加會議成果

(1) Local Section MOU

因 IEEE ComSoc 為非營利性單位，故要求我國重新簽署新的 Local Section MOU，在 11 月 30 日 GLOBECOM 2000 總結會議中已由 GICC 主席 Terry Kero 簽署 (詳附件九)。

(2) 同意 GLOBECOM 2002 Taipei 之主題(Theme)

GLOBECOM 2002 Taipei 之大會主題為 The World Converges，大會會徽則延至下次會議前提出。

(3) 同意 GLOBECOM 2002 Taipei 之初步預算(Preliminary Budget)

初步預算在報告後已經委員會確認，其中註冊費也獲其同意，為部份預算科目則仍須補列或修正。

(4) 技術議程

在陳教授報告我國規劃後，其技術議程規劃原則與方式已獲委員會同意。

(5) 其他

- a. 從頒獎典禮中，了解 IEEE ComSoc 組織變革與相關資深會員犧牲奉獻精神。
- b. 每次會議之技術議程均可依照其規劃來展示會議特色
  - ◇ 無 Business Application Sessions (BAS)，但將其放到各 Sessions 會議之一個上午或下午時段去。
  - ◇ 增加 6 個主管業務會議(Executive Business Sessions)
  - ◇ 會議地點分布在鄰近之三個旅館，但有一主會場。
- c. 認識各年度 GLOBECOM/ICC 會議之籌辦人員，如 ICC 2001/2002、GLOBECOM 2001 等。

(6) 未來工作

針對下次在芬蘭舉行的 ICC 2001 會議，GLO'02 籌委會需要向 GICC 委員會報告工作進度，亦即 GLOBECOM 2002 Taipei 在 2001 年 6 月前需要籌辦工作如下：

- ◇ 大會網站之運作，相關技術議程、徵文等需要放到網站上。
- ◇ 大會會徽(Logo)本須在此次會議完成，目前則延至 2001 年 6 月。
- ◇ 預借基金因帳號尚未開立，且初步預算在 2000 年 11 月完成，故尚待向 IEEE ComSoc 總部申請。
- ◇ 技術議程之項目與名稱仍須徵詢 IEEE 各委員會與專家意見，此部份屬技術委員會權責（台大），惟相關資料需要放置網站上做意見交換。
- ◇ GLOBECOM 2002 Taipei 初步預算雖獲委員會同意，但有些項目需要檢討與修正
- ◇ GLOBECOM 2002 Taipei 會議之文宣工作，包括徵文(CFP)、GLOBECOM 2001 San Antonio 會議之展示與錄影帶、宣傳資料（貼紙或筆）等。

#### 4 心得與建議事項

此次參加 GLOBECOM 2000 全球通信會議，主要心得與建議如下：

1. 整體性

- ◇ 舊金山確實為一個好地點，會議參加者不少，加以營收增加、支出減少而盈餘不錯，故 2003 年與 2006 年將繼續在此辦理。
- ◇ GICC 委員會對展示已經釐清一個原則，並加以規劃與擬定 RFP

計畫，做好市場規劃，初步在 ICC 2002 紐約、GLO'03 舊金山、GLO'04 達拉斯做展示，其討論、規劃與做事邏輯值得學習。

## 2. 會場與會議管理方面

- ◇ 大會事務與會場係委託 Don Anderson 公司辦理，會場工作幕僚僅有 36 人，且大會支出因控制得宜，比預算數還低，管理與工作效率值得我國辦理參考。
- ◇ 整個會議雖分散在三個旅館，因距離很近在會議室調度與管理方便。因此建議會場需要儘快與技術委員會研擬出需求，在台北國際會議中心與凱悅飯店間做整合規劃。
- ◇ 此次大會提供五項旅遊，分散在星期一、二、三、四，未來台北在辦理此項工作，建議委託旅遊機構辦理；另外，在眷屬招待 (Companion Hospitality) 方面，第三天參觀該辦公室也無與會者在場，此項僅提供基本服務。

## 3. 技術議程方面

- ◇ 技術議程因係由台大教授主導，且需要配合 IEEE 各委員會規劃及邀請會議主講者，建議本公司以督導與技術支援立場，協助推動規劃與執行。
- ◇ 會議之電子論文提交與審查系統，宜加速工作並建立系統。

## 4. 文宣方面

- ◇ 大會文宣工作需要儘速規劃，包括網站、雜誌、電視等方面，ICC 2001 與 GLOBECOM 2001 文宣貼紙如附件十，建議推廣委員會參考。
- ◇ 2001 年底 GLOBECOM 2001 San Antonio 之會議需要在大會晚宴上播放我國會議之錄影帶，此部份也建議推廣委員會規劃。

## 5. 財務方面

- ◇ 初步財務計畫書需要修訂，建議財務委員會與 GLOBECOM 2002 之各委員會研修。
- ◇ 大會募款非常重要，建議贊助委員會需要配合大會活動與展示，提出完整募款計畫書，以利向國內或國外廠商進行募款工作。此部份已經提供 GLOBECOM 2001 San Antonio 之贊助與展示邀請書 (如附件十一)，供贊助委員會參考。

## 6. 其他

- ◇ 辦理 GLO'02 大會，IEEE ComSoc 幕僚人員之協助是非常重要的，目前初步已經建立連絡橋樑，未來離會議日期愈近，整個核心組織與全時人員會逐漸增多，工作與報告會逐漸增重，恐怕需要籌委會人員更投注心力。
- ◇ 因應未來每半年需向 GICC 委員會與 ComSoc 報告，相關出國報告之籌委會主席應儘早研究，以利推動工作與準備報告資料

**附件一 GLOBECOM 2000 Program Schedule Overview**

<b>Monday, November 27</b>	<b>Tuesday, November 28</b>	<b>Tuesday, November 28</b>	<b>Wednesday, November 29</b>
8:30 am – 5:00 pm Internet Protocol Version 6 Workshop IPv6: The New Internet Tidal Wave	8:15 – 8:45 am Keynote Address Dr. David Nagel, Chief Technology Officer, AT&T	2:00 pm – 5:30 pm	8:30 am – 11:30 am
9:00 am – 5:00 pm	9:00 am – 12:00 pm		
T-01 UMTS/IMT 2000	E-1 Executive Panel (Service Providers)	E-2 Executive Panel (Equipment Provider)	E-3 Executive Panel (Investors & Analysts)
T-02 Orthogonal Frequency Division Multiplexing for Wireless Communications	W-1 Wireless Symp.	W-2 Wireless Symp.	W-3 Wireless Symp.
T-03 Digital Communications over Generalized Fading Channels: A Unified Approach to Performance Analysis	W-7 Wireless Symp.	W-8 Wireless Symp.	W-9 Wireless Symp.
T-07 PM Mobile Internet Services Over the 4th Generation Wireless Communications Networks and Beyond	GI-1a Global Internet	GI-2a Global Internet	GI-3a Global Internet
	GI-1b Global Internet	GI-2b Global Internet	GI-3b Global Internet
T-08 Internetworking: Voice Over Packet-switched Networks and IP Over X	HS-1 High-Speed Networks Symp.	HS-2 High-Speed Networks Symp.	HS-3 High-Speed Networks Symp.
T-15 Service Level Agreements (SLA)	HS-7 High-Speed Networks Symp.		
WS-01 Application of Virtual Reality Technologies for Future Telecommunication System	P-4 Performance of Optical Networks	P-1 Photonic Network Symp.	P-2 Photonic Network Symp.
9:00 am – 12:00 pm	CT-1 Communication Theory Symp.	CT-3 Communication Theory Symp.	CT-5 Communication Theory Symp.
T-11 Optical Internet: Available Technologies and Challenges	CT-2 Communication Theory Symp.	CT-4 Communication Theory Symp.	CT-6 Communication Theory Symp.
T-13 Broadband Satellite Systems: A Network Perspective	G-11 General Topics	G-5 General Topics	G-6 General Topics.
2:00 pm – 5:00 pm			
T-14 Discrete-Event Simulation for Communication Links and Networks			
T-16 New Generation Multi-service Communication Networks			
6:00 pm – 9:00 pm General Reception	12:00 pm – 2:00 pm Awards Luncheon		

## GLOBECOM 2000 Program Schedule Overview

Wednesday, November 29	Thursday, November 30	Thursday, November 30	Friday, December 1
1:30 – 5:00 pm	8:30 am – 11:30 am	1:30 pm – 5:00 pm	9:00 am – 5:00 pm
E-4 Executive Panel (Investors & Analysts)	E-4 Executive Panel (Start-up Companies)	E-6 Executive Panel (Qos & Reliability for NGN)	T-04 Interference Analysis and Suppression Techniques for Wireless Communications T-05 Analytical Tools for Wireless Communications Systems Design
W-4 Wireless Symp.	W-5 Wireless Symp.	W-6 Wireless Symp.	T-06 Adaptive Wireless Multimedia Communications: A design Paradigm for High-End TDMA, CDMA and OFDM Systems
S-3 Satellite Communications Symp.			T-12 Realizing the Multi-wave Optical Network
GI-4a Global Internet	GI-5a Global Internet		WS-02 Service Portability and Virtual Customer Environment
	GI-5b Global Internet		
HS-4 High-Speed Networks Symp.	HS-5 High-Speed Networks Symp.	HS-6 High-Speed Networks Symp.	
P-3 Photonic Network Symp.			9:00 am – 12:00 pm T-09 Intranets and Extranets: Security and Cost Issues
CT-7 Communication Theory Symp.	CT-9 Communication Theory Symp.		2:00 pm – 5:00 pm T-10 Policy Enabled Networking
CT-8 Communication Theory Symp.	CT-11 Communication Theory Symp.	CT-10 Communication Theory Symp.	
G-11 General Topics	G-2 General Topics	G-4a General Topics.	
G-7 General Topics	G-8 General Topics	G-4b General Topics	
	G-12 General Topics	G-9 General Topics	
	G-3a General Topics	G-10 General Topics	
	G-3b General Topics	G-13 General Topics	
12:00 pm – 2:00 pm Banquet		G-16 General Topics	



附件二 --- 薛副總經理E1 Panel報告資料



## *Vision & Projections for Next Five Years*

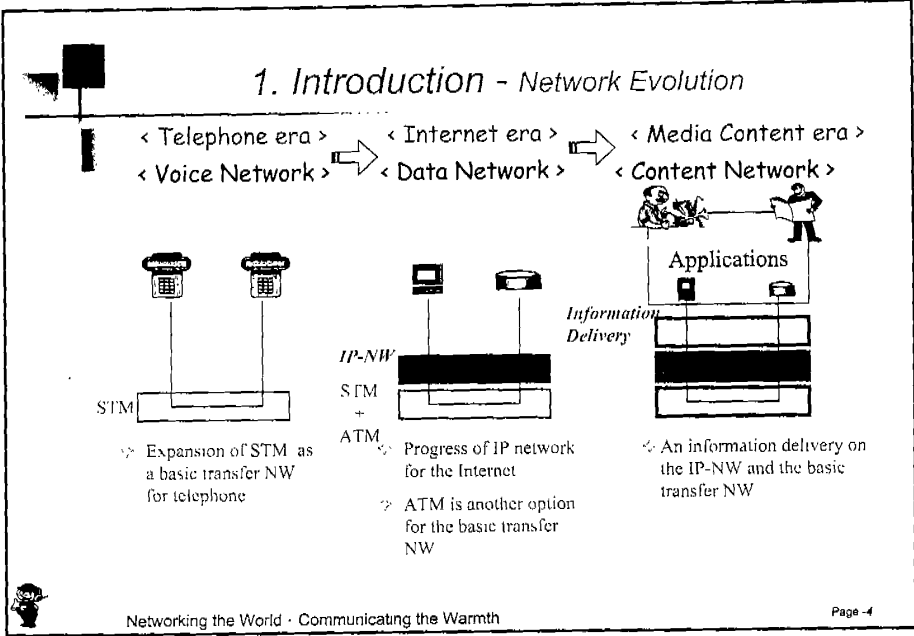
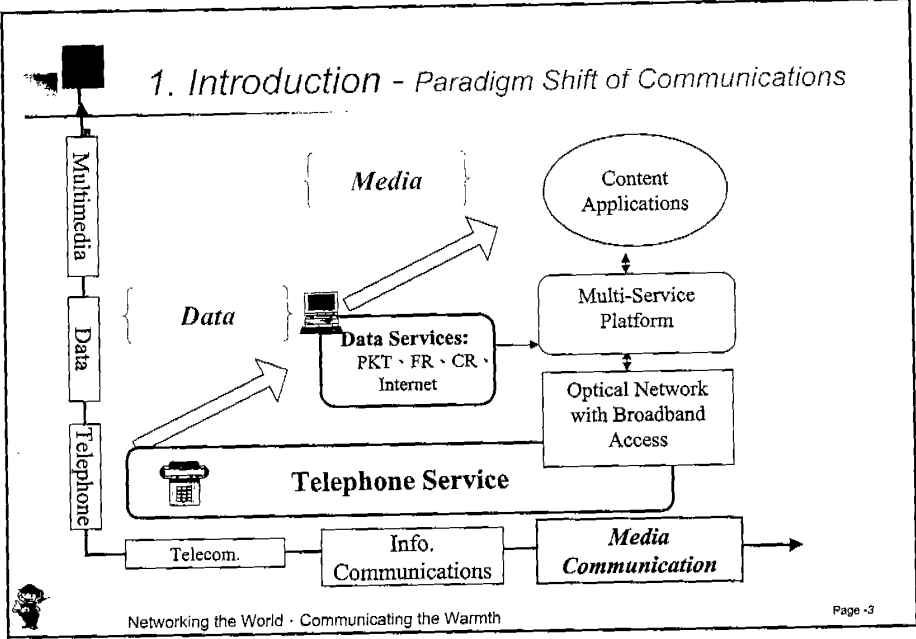
John C. C. Hsueh, Ph.D  
Executive VP  
Chunghwa Telecom Co., Ltd.



## *Contents*

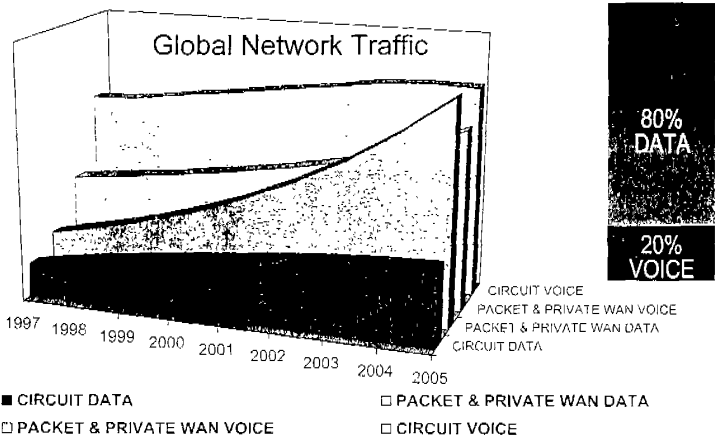
- Introduction
- Network Evolution
- Business Model
- Vision & Projections - Service Providers
- Conclusion





2-2

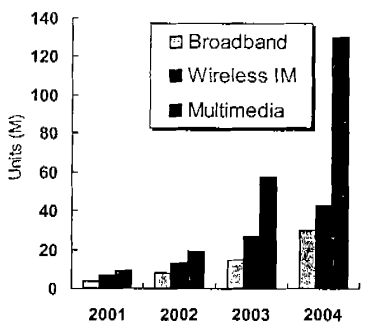
# 1. Introduction - Traffic



Source: Probe Research Inc. estimates.

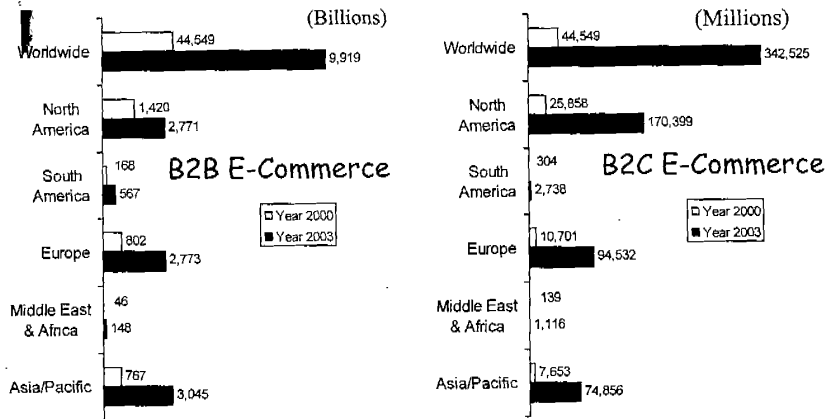
# 1. Introduction - Market Trends & Growth

- By 2002: Instant Message (IM) expected to double to 180 M users.
- By 2003: 50% of new PC will have video cameras.
- By 2005: Video-rich media will replace text messaging.



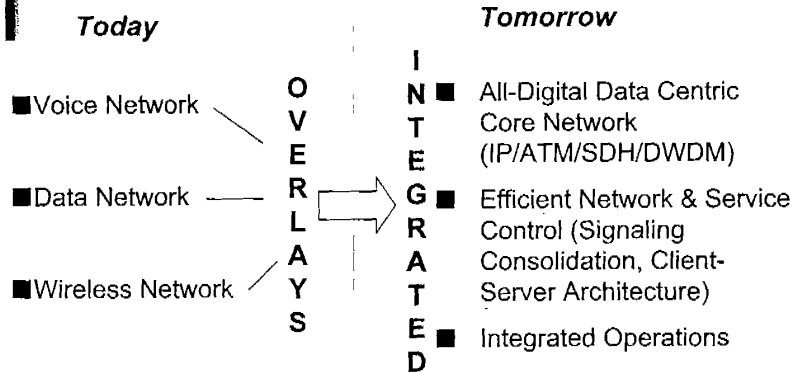
2-3

## 1. Introduction - E-Commerce Sales



Source: Computer Economics

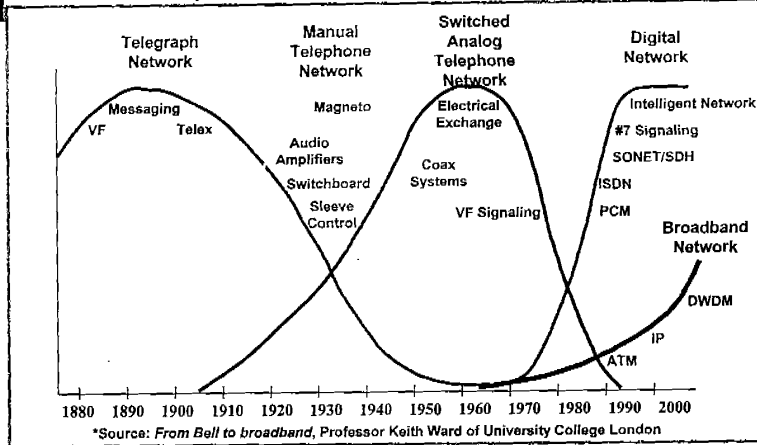
## 2. Network Evolution



2-4

## 2. Network Evolution

The network life cycle is decreasing gradually, ex. ISDN, SONET

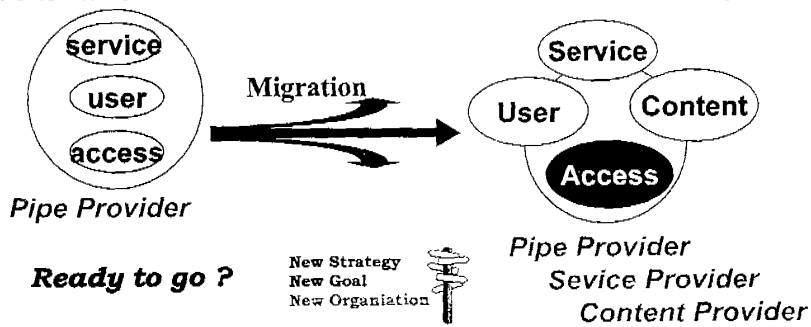


\*Source: From Bell to broadband, Professor Keith Ward of University College London

## 3. Business Model - New Role

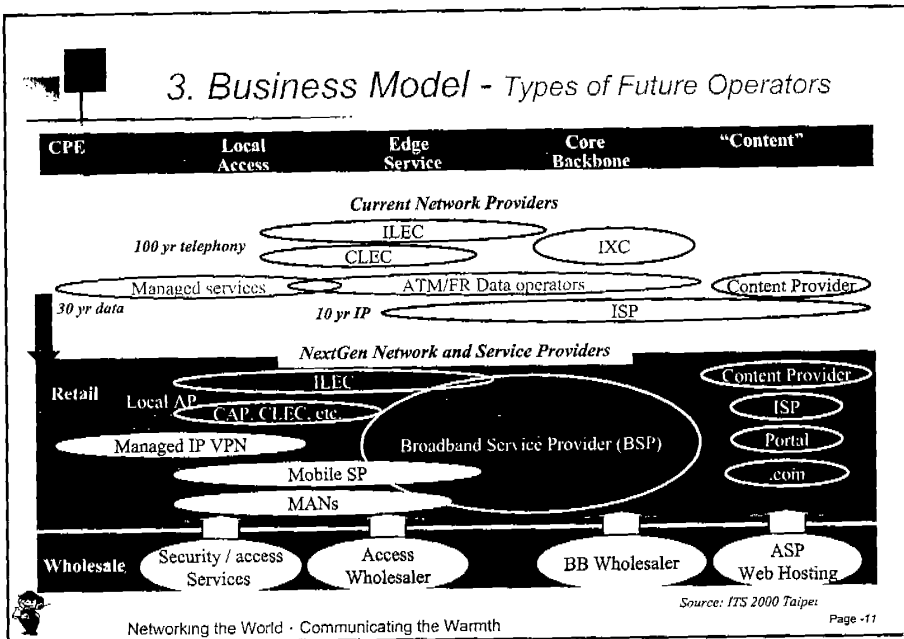
- ◇ Operator owns whole value chain
- ◇ One service - voice

- ◇ New content/service
- ◇ Customer ownership fragments (due to move to open platform)
- Access becomes commodity



2-5

### 3. Business Model - Types of Future Operators



### 4. Vision

Telecom is  
**Untying**

**Broadband  
Internet  
Mobile  
Multimedia**

Vision:

*To provide universal media-rich communication services satisfied the needs of the information society and digital economy.*

2-6

## 4. Projections

### ■ Broadband Network

#### ■ Broadband Transport

■ Today : Optical Ring Architecture

■ Tomorrow :

- Terabit/Petabit Network

- IP/OCCS Optical Ring/Mesh Architecture (IP Over  $\lambda$ )

#### ■ Access Transport

■ Access/Distribution Network

■ xDSL, Fiber to Home/Business, APON

### ■ Wireless Communication

■ 2G, 3G and Beyond 3G (4G, 5G, .....)

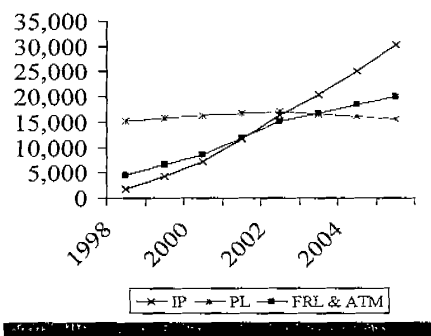
### ■ (New Generation) Applications and Services

■ E-Commerce, Enterprise Services/Applications, Media-rich Applications, .....



## 4. Projections - Data Services Revenue (U.S.)

**Data Growth Projections**  
(Millions of Dollars)



### ■ Compounded Annual Growth Rates:

■ IP: 56%

■ Frame Relay & ATM: 24%

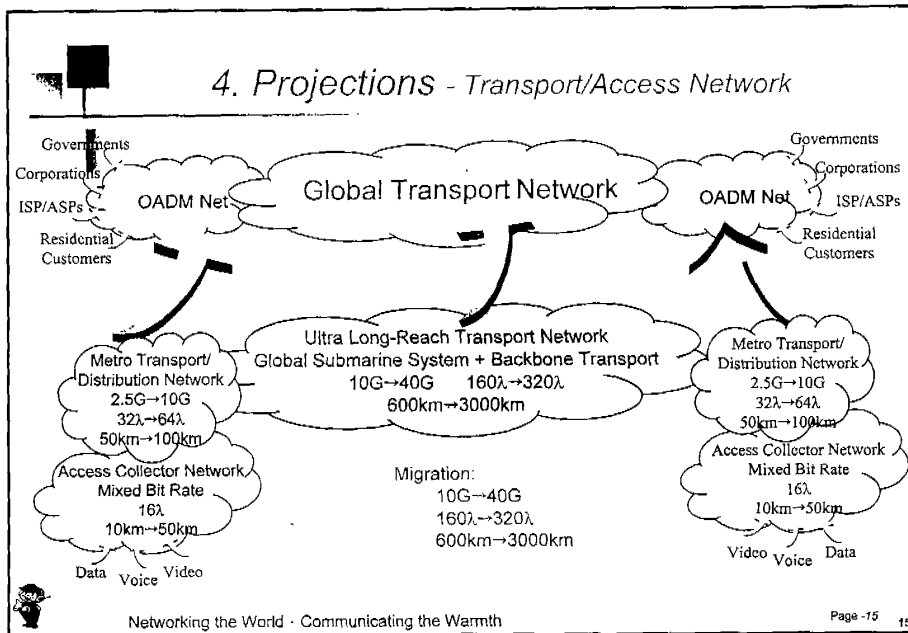
■ Private Line: 1%

■ IP will exceed all other services by 2003



**All Data and Packet Services will grow very rapidly.**

2-7



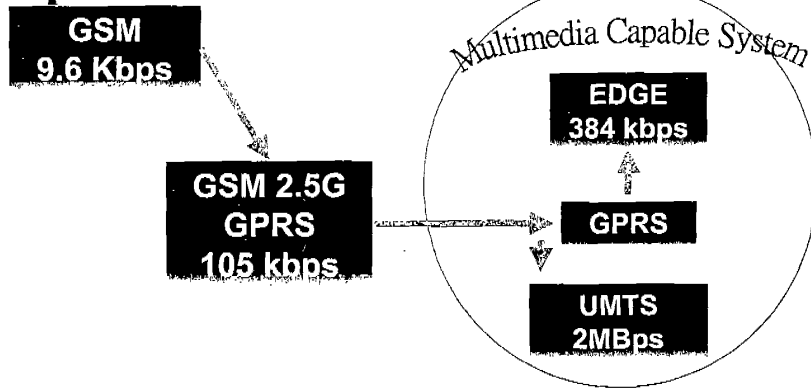
- ### 4. Projections - Wireless Communication
- #### ■ Wireless Generations
- 1G - analog voice (cellular revolution)
  - 2G - digital voice (breaking digital barrier)
  - 3G - voice and data (breaking data barrier)
    - not truly "multimedia," but Internet capable
    - not "single standard," but multimode
    - not equivalent to WCDMA
  - Beyond 3G - wideband OFDM?
    - Relentless pursue of higher data-rates and better contents!
- Networking the World · Communicating the Warmth
- Page -16

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#### 4. Projections - Wireless Communication


Operator's point of view



#### 4. Projection - Applications & Services

- To build the enterprise communication services and solutions :
  - Broadband Access applications (Voice, data, and video)
  - IP VPN and Intranet/Extranet services for enterprise and SOHO
  - Fixed-Mobile Convergent Services
- To provide the multimedia communication infrastructure with the competitive business model
  - To deploy the cyberspace content and business
  - To develop the various content-rich terminals, portals and technologies
  - To strategically cooperate with other content providers.
- To create new services through E-Commerce platform
  - Prepaid card and phone bill, e-ticket, .....
  - E-procurement, Income Tax, CD, Entertainment, Photos, ....

2-9



## 5. Conclusion

*Network Opticalization offers Bandwidth-on-demand.*

*Wireless is king.*

*Media-rich content enrich communication.*

**High Cost Investment !!** ( *Transport, Spectrum, Facilities, .....* )

**Broad Band Services Developed ?** ( *Application, Content, .....* )

**Broad Band Market Visible ?** ( *Terminal, Pricing/Demand .....* )

**The Time for Media Communication is Now!**



Agenda  
GICC  
GLO2000/ San Francisco

**Strategy and Operations**

Tuesday 28 November

Hunt Room, Fairmont Hotel

9:00am to 11:45pm

- 9:15 Roll Call
- 9:20 Approval of Minutes
- 9:25 Motions passed by e-mail since last meeting
- 9:30 Fees
- 9:40 Operational Matters (includes Student Travel and Exhibit Space)
- 10:20 Definitions: Tracks, Symposium Mini-Conference, Affiliate, Co-Location
- 10:30 ICC 2001
- 11:00 XXX'YY (to be determined)
- 11:30 Revised GICC Charter
- 11:45 End of Meeting

**Future Conferences**

Wednesday 29 November

Hunt Room, Fairmont Hotel

8:00am to 2:00 pm

- 8:00 GICC Exhibit Study Group
  - Major Meetings Matrix
  - GICC Decision Matrix
- 9:15 ICC'00
- 9:45 GLO'00
- 10:15 GLO'01
- 10:45 ICC'02
- 11:15 GLO'02
- 11:45 ICC'03
- 12:00 GLO'03
- 12:15 ICC'04
- 12:30 Future Approvals
- 2:00 End of Meeting

附件四 --- Major Meeting Matrix  
IEEE Communications Society

Major Meetings Matrix

	OFC	NOMS/IM	INFOCOM	ICUPC/WCNC	ENG CONF	SUPERCOMM	ICC	MILCOM	GLOBECOM
1997		San Diego United States 12 May	Kobe Japan 11 April	San Diego United States 16 Oct	(Not Held)		Montreal Canada	Monterey United States 03 Nov	Phoenix United States 03 Nov
1998	San Jose United States 22 Feb	New Orleans United States 15 Feb	San Francisco United States 29 Mar	Florence Italy 5 Oct	Las Vegas United States 4 May		Atlanta United States 7 June	Boston United States 18 Oct	Sydney Australia 8 Nov
1999	San Diego United States 21 Feb	Boston United States 24 May	New York United States 21 Mar	New Orleans United States 22 Sep	Las Vegas United States 12 May		Vancouver Canada 6 June	Atlantic City United States 31 Oct	Rio Brazil 5 Dec
2000	Baltimore United States 3 March	Honolulu United States 10 April	Tel Aviv Israel 26 March	Chicago United States 27 Sep	Las Vegas+ United States 8 May	Atlanta United States 4 - 8 June	New Orleans United States 18 Jun	Los Angeles United States 22 Oct	San Francisco United States 26 Nov
2001	Anaheim C.A. United States 17-22 M	Seattle United States 14 May	Anchorage Alaska 22-26 April	No Conference Schedule	Las Vegas+ United States 9-10 May	Atlanta United States 3 - 7 June	Helsinki Finland 11 June	McLean Va United States 28-31 Oct	San Antonio United States 25 November
2002		Florence Italy 15 April	New York United States 21 June	Orlando, FL+ United States XX March		Atlanta United States 2-6 June	New York United States 28 April	Anaheim Ca United States	Taipei Taiwan
2003		Honolulu United States 12 May	San Francisco Ca. United States 30 March			Atlanta United States 1 - 5 June	Anchorage United States 11-15 May	Boston, Ma United States 25-29 Oct	San Francisco United States
2004			Hong Kong China 7 March			Atlanta United States 6 - 10 June	Paris France	Atlantic City NJ, United States 31 Oct - 3 Nov	Dallas United States
2005						ATLANTA United States 5 - 10 June			New York United States
2006									San Francisco United States
2007									Dallas United States

附件五 --- GICC Decision Matrix

## GICC Decision Matrix

A = Approved Previously

P = Provisionally Approved; update due at next GICB (indicated above); proceed assuming approval at that meeting

D = Due at next GICB meeting (listed above)

N = Not due until a meeting following the next GICB meeting (listed above)

R = Rejected

X = This step not required for this conference

a = Consult staff in advance if non-standard MOU will be proposed to GICB

b = Applicable only if Conference Center is required

c = Normally suggested by GICB, but OC nomination is welcome

s = Submit budget to ComSoc staff for preliminary comment one month before next GICB meeting (indicated above)

? = Please indicate to staff whether this step is pending or has been completed.

<b>GLOBECOM '99 – RIO</b>		<b>[C+12]</b>
C-36	City Location	A
C-36	General Chair	A
C-36	Conference Dates	A
C-36	Significant Supporter	A
C-30	Local Section MOU	A
C-30	Conference Hotel	A
C-30	Conference Center	A
C-30	Tech Program Chair	A
C-30	Vice Chair	A
C-30	Finance Chair	A
C-30	GICB Advisor(s)	A
C-24	Conference Theme	A
C-24	Conference Logo	A
C-24	Advance Loan	A
C-24	Registration Fee	A
C-24	Preliminary Budget	A
C-24	Technical Program Matrix	X
C-18	Rev Preliminary Budget	A
C-18	Rev Tech Program Matrix	X
C-12	Interim Budget	A
C-12	Interim Tech Program Matrix	X
C-6	Final Budget	A
C-6	Final Tech Program Matrix	X
C-0	Forecast & Wrap-Up Report	A
C+6	Final Report	P

附件五 --- GICC Decision Matrix

<b>ICC'00 – NEW ORLEANS</b>		<b>[C+6]</b>
C-36	City Location	A
C-36	General Chair	A
C-36	Conference Dates	A
C-36	Significant Supporter	A
C-30	Local Section MOU	A
C-30	Conference Hotel	A
C-30	Conference Center	X
C-30	Tech Program Chair	A
C-30	Vice Chair	A
C-30	Finance Chair	A
C-30	GICB Advisor(s)	A
C-24	Conference Theme	A
C-24	Conference Logo	A
C-24	Advance Loan	A
C-24	Registration Fee	A
C-24	Preliminary Budget	A
C-24	Technical Program Matrix	X
C-18	Rev Preliminary Budget	A
C-18	Rev Tech Program Matrix	X
C-12	Interim Budget	A
C-12	Interim Tech Program Matrix	X
C-6	Final Budget	A
C-6	Final Tech Program Matrix	X
C-0	Forecast & Wrap-Up Report	A
C+6	Final Report	D

<b>GLOBECOM '00 – SAN FRANCISCO</b>		<b>[C-0]</b>
C-36	City Location	A
C-36	General Chair	A
C-36	Conference Dates	A
C-36	Significant Supporter	A
C-30	Local Section MOU	A ?
C-30	Conference Hotel	A
C-30	Conference Center	X
C-30	Tech Program Chair	A
C-30	Vice Chair	A
C-30	Finance Chair	A
C-30	GICB Advisor(s)	A
C-24	Conference Theme	A
C-24	Conference Logo	A
C-24	Advance Loan	A
C-24	Registration Fee	A
C-24	Preliminary Budget	A

附件五 -- GICC Decision Matrix

C-24	Technical Program Matrix	X
C-18	Rev Preliminary Budget	A
C-18	Rev Tech Program Matrix	X
C-12	Interim Budget	A
C-12	Interim Tech Program Matrix	A
C-6	Final Budget	A(s)
C-6	Final Tech Program Matrix	A
C-0	Forecast & Wrap-Up Report	D
C+6	Final Report	N

**ICC'01 – HELSINKI [C-6]**

C-36	City Location	A
C-36	General Chair	A
C-36	Conference Dates	A
C-36	Significant Supporter	A
C-30	Local Section MOU	A
C-30	Conference Hotel	A
C-30	Conference Center	A
C-30	Tech Program Chair	A
C-30	Vice Chair	A
C-30	Finance Chair	A
C-30	GICB Advisor(s)	A
C-24	Conference Theme	A
C-24	Conference Logo	A
C-24	Advance Loan	A
C-24	Registration Fee	A
C-24	Preliminary Budget	A
C-24	Technical Program Matrix	X
C-18	Rev Preliminary Budget	A
C-18	Rev Tech Program Matrix	A
C-12	Interim Budget	A
C-12	Interim Tech Program Matrix	A
C-6	Final Budget	D(s)
C-6	Final Tech Program Matrix	D
C-0	Forecast & Wrap-Up Report	N
C+6	Final Report	N

**GLOBECOM '01 – SAN ANTONIO [C-12]**

C-36	City Location	A
C-36	General Chair	A
C-36	Conference Dates	A
C-36	Significant Supporter	A

附件五 --- GICC Decision Matrix

C-30	Local Section MOU	A
C-30	Conference Hotel	A
C-30	Conference Center	A
C-30	Tech Program Chair	A
C-30	Vice Chair	A
C-30	Finance Chair	A
C-30	GICB Advisor(s)	A
C-24	Conference Theme	A
C-24	Conference Logo	A
C-24	Advance Loan	A
C-24	Registration Fee	A
C-24	Preliminary Budget	A
C-24	Technical Program Matrix	X
C-18	Rev Preliminary Budget	A(s)
C-18	Rev Tech Program Matrix	D
C-12	Interim Budget	D
C-12	Interim Tech Program Matrix	D
C-6	Final Budget	N
C-6	Final Tech Program Matrix	N
C-0	Forecast & Wrap-Up Report	N
C+6	Final Report	N

**ICC '02 – NEW YORK [C-18]**

C-36	City Location	A
C-36	General Chair	A
C-36	Conference Dates	A
C-36	Significant Supporter	A
C-30	Local Section MOU	D
C-30	Conference Hotel	A
C-30	Conference Center	X
C-30	Tech Program Chair	A
C-30	Vice Chair	D
C-30	Finance Chair	D
C-30	GICB Advisor(s)	A
C-24	Conference Theme	D
C-24	Conference Logo	D
C-24	Advance Loan	A
C-24	Registration Fee	D
C-24	Preliminary Budget	D(s)
C-24	Technical Program Matrix	D
C-18	Rev Preliminary Budget	A(s)
C-18	Rev Tech Program Matrix	D
C-12	Interim Budget	N
C-12	Interim Tech Program Matrix	N



附件五 --- GICC Decision Matrix

C-6	Final Budget	N
C-6	Final Tech Program Matrix	N
C-0	Forecast & Wrap-Up Report	N
C+6	Final Report	N
<b>GLOBECOM '02 – TAIPEI</b>		<b>[C-24]</b>
C-36	City Location	A
C-36	General Chair	A
C-36	Conference Dates	A
C-36	Significant Supporter	A
C-30	Local Section MOU	A
C-30	Conference Hotel	A
C-30	Conference Center	X
C-30	Tech Program Chair	A
C-30	Vice Chair	A
C-30	Finance Chair	A
C-30	GICB Advisor(s)	A
C-24	Conference Theme	N
C-24	Conference Logo	N
C-24	Advance Loan	N
C-24	Registration Fee	N
C-24	Preliminary Budget	N
C-24	Technical Program Matrix	N
C-18	Rev Preliminary Budget	N
C-18	Rev Tech Program Matrix	N
C-12	Interim Budget	N
C-12	Interim Tech Program Matrix	N
C-6	Final Budget	N
C-6	Final Tech Program Matrix	N
C-0	Forecast & Wrap-Up Report	N
C+6	Final Report	N
<b>ICC '03 – ANCHORAGE</b>		<b>[C-30]</b>
C-36	City Location	A
C-36	General Chair	A
C-36	Conference Dates	A
C-36	Significant Supporter	?
C-30	Local Section MOU	D
C-30	Conference Hotel	A
C-30	Conference Center	A
C-30	Tech Program Chair	D
C-30	Vice Chair	D
C-30	Finance Chair	D
C-30	GICB Advisor(s)	D

附件五 --- GICC Decision Matrix

C-24	Conference Theme	N
C-24	Conference Logo	N
C-24	Advance Loan	N
C-24	Registration Fee	N
C-24	Preliminary Budget	N
C-24	Technical Program Matrix	N
C-18	Rev Preliminary Budget	N
C-18	Rev Tech Program Matrix	N
C-12	Interim Budget	N
C-12	Interim Tech Program Matrix	N
C-6	Final Budget	N
C-6	Final Tech Program Matrix	N
C-0	Forecast & Wrap-Up Report	N
C+6	Final Report	N

**GLOBECOM '03 – SAN FRANCISCO [C-36]**

C-36	City Location	A
C-36	General Chair	D
C-36	Conference Dates	D
C-36	Significant Supporter	D
C-30	Local Section MOU	N
C-30	Conference Hotel	N
C-30	Conference Center	N
C-30	Tech Program Chair	N
C-30	Vice Chair	N
C-30	Finance Chair	N
C-30	GICB Advisor(s)	N
C-24	Conference Theme	N
C-24	Conference Logo	N
C-24	Advance Loan	N
C-24	Registration Fee	N
C-24	Preliminary Budget	N
C-24	Technical Program Matrix	N
C-18	Rev Preliminary Budget	N
C-18	Rev Tech Program Matrix	N
C-12	Interim Budget	N
C-12	Interim Tech Program Matrix	N
C-6	Final Budget	N
C-6	Final Tech Program Matrix	N
C-0	Forecast & Wrap-Up Report	N
C+6	Final Report	N

附件五 --- GiCC Decision Matrix

ICC'04 – PARIS		[C-42]
C-36	City Location	A
C-36	General Chair	N
C-36	Conference Dates	N
C-36	Significant Supporter	N
C-30	Local Section MOU	N
C-30	Conference Hotel	N
C-30	Conference Center	N
C-30	Tech Program Chair	N
C-30	Vice Chair	N
C-30	Finance Chair	N
C-30	GICB Advisor(s)	N
C-24	Conference Theme	N
C-24	Conference Logo	N
C-24	Advance Loan	N
C-24	Registration Fee	N
C-24	Preliminary Budget	N
C-24	Technical Program Matrix	N
C-18	Rev Preliminary Budget	N
C-18	Rev Tech Program Matrix	N
C-12	Interim Budget	N
C-12	Interim Tech Program Matrix	N
C-6	Final Budget	N
C-6	Final Tech Program Matrix	N
C-0	Forecast & Wrap-Up Report	N
C+6	Final Report	N

附件六 --- ICC 2000 財務報告

ICC 2000 Budget

Line #	Category	Planned	Revised	Original	Revised	Actual
1000	STANDARD CONSOB CONFERENCE BUDGET SPREADSHEETS					
1000	TOTAL BUDGET	377,000	377,000	377,000	377,000	377,000
1000	TOTAL OPERATING EXPENSES	340,928	340,928	340,928	340,928	340,928
1000	TOTAL OPERATING REVENUE	37,072	37,072	37,072	37,072	37,072
600	MEMBERSHIP	267,100	267,100	267,100	267,100	267,100
610	In Advance - Members	228	228	228	228	228
611	Full	307	307	307	307	307
612	Limited	119	119	119	119	119
620	In Advance - Nonmembers	257	257	257	257	257
621	Full	81	81	81	81	81
622	Limited	176	176	176	176	176
630	In Advance - Reduced Rate	200	200	200	200	200
631	1 Day Members	98	98	98	98	98
632	1 Day Nonmembers	102	102	102	102	102
633	Life Members	17	17	17	17	17
634	Students	105	105	105	105	105
635	Other Registration Fees	0	0	0	0	0
640	At Conf - Members	58	58	58	58	58
641	Full	21	21	21	21	21
642	Limited	37	37	37	37	37
643	At Conf - Nonmembers	58	58	58	58	58
644	Full	21	21	21	21	21
645	Limited	37	37	37	37	37
646	At Conf - Reduced Rate	27	27	27	27	27
647	1 Day Members	28	28	28	28	28
648	1 Day Nonmembers	11	11	11	11	11
649	Life Members	18	18	18	18	18
650	Students	98	98	98	98	98
651	Conducts Only	0	0	0	0	0
652	Other Registration Fees	0	0	0	0	0
700	PUBLICATION SALES	36790	41150	46515	27585	26873
710	To Members	6120	8500	11050	8335	8335
711	Printed - In Advance	18	115	2070	25	115
712	Printed - At Conference	18	115	2070	25	115
713	CD - In Advance	18	55	950	25	55
714	CD - At Conference	18	55	950	25	55
720	To Nonmembers	5670	8500	10465	0	0
721	Printed - In Advance	17	115	1955	24	115
722	Printed - At Conference	17	115	1955	24	115
723	CD - In Advance	16	55	880	23	55
724	CD - At Conference	16	55	880	23	55
730	To IEEE HQ	25000	500	25000	500	25000
800	EXHIBITS	105250	137500	178750	51350	51350
840	Patrons					30000
841	Patrons-Platinum					30000
842	Patrons-Gold	3	18000	48000	4	18000
843	Patrons-Silver	4	10000	40000	8	10000
844	Patrons-Diamond	3	9000	36000	4	9000
845	Exhibitors					9880
846	Exhibitors-Type 1					8290
847	Exhibitors-Type 2 Thru Regist.					2290
848	Advisors					1000
849	Sponsors					11700
850	Lucent Chair Pre-Banquet Rept					4000
851	Lucent Thru Registration					1800
852	ADC Telecommunications					2700
853	Yehon-Gal-Sale Coffee Break					500
854	Fujitsu Technologies					500
855	Fujitsu					500
856	Fujitsu Welcome reception					3500
857	Alcatel Coffee Break					800

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附件六 --- ICC 2000 財務報告

ICC 2000 Budget

A B C D E F G H I J K L M N O P Q R S T																	
Budget			Preliminary						Actual								
Use of	Category		Preliminary		Actual		Optimistic		Expended		Actual						
			#	\$	#	\$	#	\$	#	\$	#	\$	#	\$			
172																	
173	1400	Printing / Call for Papers			617488		728431		828904		500492			480742			
174																	
175	1400	Printing / Address Program			29000		96000		105500		64887			59558			
176																	
177	1410	Printing / Final Program			25000		25000		25000		17492			18167			
178	1430	Printing / Final Program			5000		5000		5000		7000			7639			
179	1440	Mailing Lists / Labels			8000		5000		5000		5742						
181	1490	Postage			48000		50000		55000		12692						
182	1490	Other Promotion Aids			8000		10000		12000		19211						
183	1498	Mail Printing									2300						
184																	
185	1500	CONFERENCE PUBLICATIONS			98000		89966		98000		14800			96599			
186																	
187	1810	Conference Record Printing			38000		80000		78000		28000			43489			
188	1818	Conference Record - CD-ROM			7000		10000		12000		7000			14858			
189	1820	Author Kits Printing			3000		7000		4000		3000						
190	1830	Shipping			7000		10000		12000		7000						
191	1840	Tutorial Hand & Binding			4000		8000		8000		4200						
192	1848	Materials - Tutorials, Workshops			18000		18000		18000		22800			21082			
193	1850	Prototyping			3000		3000		3000		2800						
194																	
195	1898	CONFERENCES			30000		30000		30000		6000			5898			
196																	
197	1810	Exhibits & Pattern Expenses			3000		3000		3000		6000			4898			
198																	
199	1200	ADVERTISING			149811		139981		235082		148018			142990			
200																	
201	1710	Admission Receipts			26470		27100		27730		26229			2525			
202	1711	Fees			888	87	31820	800	87	48650	1040	87	26250	27532			
203	1719	Other			6880		8500		9500		8189			8139			
204	1720	Lunches			360	48	23750	500	48	22500	680	48	22150	248			
205	1730	Travel			450	68	27800	800	68	41000	8300	68	27850	2971			
206	1738	Other															
207	1740	Speakers Breakfasts			200	30	6000	300	30	8000	300	30	6000	390			
208	1750	Guest Books			20448		22400		28750		28000						
209	1781	Conferences			1680	10	16800	2400	10	24000	2120	10	21200	2400			
210	1782	Tutorials			300	10	3000	800	10	8000	800	10	8000	10			
211	1783	Workshops			840	10	840	190	10	1200	188	10	1880	10			
212	1785	Special Tours															
213	1761	Tour #1 - City Tour			0	0	0	0	0	0	38	80	1780	36	80	1880	
214	1762	Tour #2 - Washington			0	0	0	0	0	0	0	80	1800	28	80	2480	
215	1763	Tour #3 - Swamp Tour			0	0	0	0	0	0	0	28	38	1818	33	88	2388
216	1774	Style Show			1500		1500		1500		1500			1200			
217	1775	Special Social Event			32582		32512		32512		47000			12000			
218	1780	Spouses Hospitality			5000		5000		5000		3594			4938			
219	1790	Other Social			2000		2000		2000		2000						
220																	
221																	
222																	
223	1800	ADMINISTRATIVE			135200		141500		143200		100774			92322			
224																	
225	1805	Insurance & Bonding			500		500		500		500			0			
226	1810	Security & Guard Service			2000		2000		2000		4000			2838			
227	1815	AV Equip Rental & Operator			12000		12000		12000		24670			24677			
228	1820	Mgmt Admin Support			4000		4000		4000		3000			200			
229	1821	Registration			45000		45000		45000		37050			20000			
230	1822	Delegate Bags			25000		25000		25000		13000			15189			
231	1823	Conference Souvenirs & Kits			7000		7000		7000		7500			8908			
232	1825	Office Equipment & Supplies			4000		4000		4000		3983			8841			
233	1830	Printing Forms, etc			10000		10000		10000		0			0			
234	1838	Posters, Signs, Badges, etc			6000		6000		6000		2000			1108			
235	1840	Telephones			7000		8000		8000		1724			7480			
236	1848	Transportation			1900		2000		2000		500			172			
237	1848	Computer Rentals												1030			
238	1880	Grants, etc.			2000		5000		5000		2000			1406			
239	1898	Operational Room Expenses			2000		2500		2500		1129			1738			
240	1870	Contingency			5800		9800		10200		1166			2084			
241																	
242																	

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附件六 -- ICC 2000 財務報告

ICC 2000 Budget

4	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
5	Budget	Line #	Category		Passimistic	Realistic	Optimistic	Expected	Actual											
243	1800	ALL OTHER			162378	162378	219612	140718	162378											
244	1819	Committee Expenses			147500	162500	181000	74652	78311											
246	1911	Travel			29000	30000	38000	4291												
247	1912	Travel			80000	80000	80000	52938												
248	1921	Worker Parking			800	800	800	800												
249	1922	Worker Lunches			2900	2900	2900	1600												
250	1923	Worker Coffee			2000	3000	4000	0												
251	1929	Other Worker Expenses			2500	3000	4000	0												
252	1931	Chairman's VIP Reception			9000	15000	18000	3789												
253	1932	Prebanquet VIP reception			6000	15000	18000	3914												
254	1933	Wrap-Up Session			4000	6000	7000	1000												
255	1940	Productivity																		
256	1950	Celebrations			5000	7800	18000	5000												
257	1960	Local Section Support																		
258	1970	Keynote Speaker Support																		
259	1980	Other			21878	30079	38612	22061												
260	1981	Bank Charge			500	500	500	48												
261	1982	Credit Card Fees			10500	15000	19500	10000												
262	1983	Audit Fee			3774	5079	6412	4000												
263	1985	Conference Materials			3500	5000	6500	1200												
264	1986	Other Miscellaneous			2500	3000	3900	21												
265	1987	Track Floor Tracking Pgm Lic			800	1600	1800	6796												
266																				
267	2100	CCAW REPAYMENTS			80000	80000	80000	80000	80000											
268																				
269	2101	IEEE Com Sec Advance			47000	47000	47000	47000	47000											
270	2102	New Orleans Section Advance			12000	12000	12000	12000	12000											
271	2103	Reglan S Advance			1000	1000	1000	1000	1000											
272																				
273																				

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## GLOBECOM 2002 Taipei Status Report



GLO'02 OC Committee  
Nov. 29, 2000  
GLO'00 San Francisco

### Content

- Status of GLOBECOM '02 – TAIPEI
- Conference Theme
- Registration Fee
- Preliminary Budget
- Program Layout



### Status of GLOBECOM '02 – TAIPEI (1/2)

Item	Previous Status	Current Status	Remarks
C-36 City Location	A	✓	Taipei
C-36 General Chair	A	✓	Steven Y. Chen
C-36 Conference Dates	A	✓	18-22 Nov '02
C-36 Significant Supporter	A	✓	Chunghwa Telecom
C-30 Local Section MOU	D	✓	GICC approve
C-30 Conference Hotel	A	✓	Grand Hyatt
C-30 Conference Center	X	✓	TICC
C-30 Tech Program Chair	D	✓	Lin-Shan Lee
C-30 Vice Chair	A	✓	John C. C. Hsueh

### Status of GLOBECOM '02 – TAIPEI (2/2)

Item	Previous Status	Current Status	Remarks
C-30 Finance Chair	D	✓	Thomas T. M. Chen
C-30 GICB Advisor(s)	D	✓	Bob Blake
C-24 Conference Theme	N	✓	
C-24 Conference Logo	N	?	Deferred to C-18
C-24 Advance Loan	N	Working	
C-24 Registration Fee	N	✓	Completed
C-24 Preliminary Budget	N	✓	Completed
C-24 Technical Program Matrix	N	✓	Completed

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## Conference Theme

The World Converges

## Registration Fee

	ICC '98	ICC '99	GLO '99	ICC '00	GLO '00	ICC '01	GLO '01	ICC '02	GLO '02
Member	485	463	535	500	540	514			<b>540</b>
Non-Member	580	587	645	610	650	614			<b>650</b>
Life	-	75	30	25	25	100			<b>35</b>
Student	-	75	30	25	25	100			<b>35</b>
Tutorials/Workshops (all day)	225	215	250	200	200	-			
Tutorials/Workshops (half day)	130	124	150	125	125	-			<b>125</b>
Award Luncheon	50	27	45	45	60	-			
Conference Banquet	75	67	60	65	90	-			
Conf Record(P)	90	104	110	115	115	-			
Conf Record (C)	90	-	30	55	55	-			

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## Preliminary Budget (1/2)

InUSD(=32NTD)

	Category	Realistic	Optimistic	Pessimistic
	Attendance	1,174	1,526	822
100	TOTAL REVENUE	976,830	1,269,879	683,781
1000	REGISTRATION FEES	495,050	643,565	346,535
1100	MINICONFERENCES	0	0	0
1200	TUTORIALS	40,000	52,000	28,000
1300	PUBLICATION SALES	70,990	92,287	49,693
1400	EXHIBITS /PATRONS	370,790	482,027	259,553
1500	FOOD & BEVERAGE	0	0	0
1600	OTHER	0	0	0
1700	TO BE ASSIGNED	0	0	0

## Preliminary Budget (2/2)

InUSD(=32NTD)

200	TOTAL EXPENSE	892,599	1,160,379	624,819
2050	MANAGEMENT	0	0	0
2100	MARKETING	125,000	162,500	87,500
2200	EXHIBITOR/VENDOR	25,000	32,500	17,500
2300	PROCEEDINGS/RECORD	48,050	62,465	33,635
2400	LOCAL ARRANGEMENT (ex F&B)	312,195	405,854	218,537
2500	FOOD & BEVERAGE	137,868	179,228	96,508
2600	PROGRAM	67,600	87,880	47,320
2700	FINANCE & REGISTRATION	55,001	71,501	38,501
2800	Committee and Administration	121,885	158,451	85,320
300	SURPLUS (account 200 - 100)	84,231	109,500	58,962
1900	Loans	0	0	0
2900	Loan Repayments	0	0	0
	Final Surplus	84,231	109,500	58,962

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## Program Layout (Current Plan)

8:30	Opening				
9:00					
9:20	10 Half-day Tutorials	11 Parallel Sessions 1 Workshop 1 BAS Session	11 Parallel Sessions 1 Workshop 1 BAS Session	9 Parallel Sessions 2 Workshops 2 BAS Sessions	10 Half-day Tutorials
12:30	Award Luncheon				
2:00	10 Half-day Tutorials	11 Parallel Sessions 1 Workshop 1 BAS Session	11 Parallel Sessions 1 Workshop 1 BAS Session	13 Parallel Sessions 0 Workshop 0 BAS Session	10 Half-day Tutorials
5:30					
7:00	Banquet				Special sessions for ComSoc 50 years.
9:30					

## Program Layout

- TPC Members
  - Technical Program Chair :
    - Lin-Shan Lee, National Taiwan University
  - Co-Chair : Kwang-Cheng Chen, National Taiwan University
  - Special Sessions
    - Chung-Ju Chang, National Chiao-Tung University
    - G. S. Kuo, National Central University
  
- GLO 2002 TPC will hold a committee meeting to discuss the program matrix on Nov. 28 afternoon, and will report the updated information.

7-5

附件八 --- GLO'02初步財務預算

# **GLOBECOM 2002 Taipei**

## **Preliminary Budget**

**Reported by Finance Committee  
November, 2000**

### **Table of Contents**

- 1. Conference Capacity**
- 2. Patrons**
- 3. Summary of Budget**

# 1. Conference Capacity

	Realistic	Optimistic	Pessimistic
Total Registration	1174	1526	822
<b>Programs</b>			
Keynote Speech	1	1	1
Parallel Sessions	60	60	60
Workshops	6	6	6
BAS Sessions	6	6	6
Tutorials (Half day)	40	52	28
<b>Meeting Site (*TICC Rental Service)</b>			
TICC Convention Hall	1	1	1
TICC Building (4 Floors)	1	1	1
Hotel Meeting Room	8	10	6

## *Assumptions:*

**1. Registration population based on predicted local requirements and results from Globecom 1999 and budget of Globecom 2000.**

**2. Registration pricing based on budget of Globecom 2000.**

**\* TICC : Taipei International Convention Center**

## 2. Partons

	Unit Price (USD)	Realistic	Optimistic	Pessimistic
Level 1	40625	5	7	4
Level 2	8125	13	17	9
Level 3	4063	6	8	4
Level 4	2031	2	3	1

## 3. Summary of Budget

*Currency: USD*

Code	Item	Realistic Budget	Optimistic Budget	Pessimistic Budget
100	TOTAL REVENUE	976,830	1,269,879	683,783
200	TOTAL EXPENSE	892,599	1,160,379	624,821
300	SURPLUS (account 200-100)	84,231	109,500	58,962

## REVENUE OF BUDGET

*Currency: USD*

CODE	ITEM	Realistic Budget	Optimistic Budget	Pessimistic Budget
100	TOTAL REVENUE	976,830	1,269,879	683,783
1000	REGISTRATION FEES	495,050	643,565	346,536
1100	MINI-CONFERENCES	0	0	0
1200	TUTORIALS	40,000	52,000	28,000
1300	PUBLICATION SALES	70,990	92,287	49,693
1400	EXHIBITS /PATRONS	370,790	482,027	259,554
1500	FOOD & BEVERAGE	0	0	0
1600	OTHER	0	0	0
1700	TO BE ASSIGNED	0	0	0

## EXPENSE OF BUDGET

*Currency: USD*

CODE	ITEM	Realistic Budget	Optimistic Budget	Pessimistic Budget
200	TOTAL EXPENSE	892,599	1,160,379	624,821
2050	MANAGEMENT	0	0	0
2100	MARKETING	125,000	162,500	87,500
2200	EXHIBITOR / VENDOR	25,000	32,500	17,500
2300	PROCEEDINGS / RECORD	48,050	62,465	33,635
2400	LOCAL ARRANGEMENT (ex F&B)	312,195	405,854	218,537
2500	FOOD & BEVERAGE	137,868	179,228	96,508
2600	PROGRAM	67,600	87,880	47,320
2700	FINANCE & REGISTRATION	55,001	71,501	38,501
2800	COMMITTEE AND ADMINISTRATION	121,885	158,451	85,320



MEMORANDUM OF UNDERSTANDING -A\*

Section: 00-25B/THS/11-May-00

By this document the IEEE Taipei Section (the IEEE Entity), proposes to accept Co-Sponsorship with the IEEE Communications Society, as represented by the GLOBECOM/ICC Conference Committee (GICC), for the operation of a conference to be known as GLOBECOM 2002 to be held in Taipei during 17-21 November 2002 subject to the following conditions:

The IEEE ENTITY, does hereby agree to participate in the operation of a local Conference Committee specifically established to plan and manage the subject Conference in accordance with the IEEE Conference Organization Manual, the GLOBECOM/ICC Conference Committee Charter or by specific directive of the Conference Committee or the Communications Society Department of Meetings and Conferences.

- II. The IEEE ENTITY as the host, also agrees to be a Financial Co-Sponsor with the IEEE Communications Society in this Conference by contributing financially with the intent that a portion of any surplus accrued from the successful operation of this conference will devolve to it for improving and expanding the activities of the local Communications Society Chapter.

Financially participating IEEE entities may provide 20% or less of the total advance funding for a specific conference. Any surplus up to the first US\$ 100,000.00, after return of the advances, will be prorated to the joint sponsors in accordance with the percentage contribution made to the total advance. Should losses occur, making full recovery of the advances by the sponsors impossible, partial recovery will be afforded by prorating the loss against the advances in terms of the percent contribution respectively to the total advance. In no case will an entity be liable for any operational losses exceeding the amount of its advance.

In addition, commencing with meetings held in 1998, the cap may be increased to a maximum of US\$ 200,000 at the sole discretion of the Conference Chair depending upon the participation of the IEEE ENTITY in the administration of the conference.

The IEEE ENTITY as a Co-Sponsor agrees to provide an advance of \$ 10,000 representing 20% of the total advances of \$ 50,000 provided by all of the Sponsors.

- III. This executed Memorandum of Understanding by an authorized officer of the IEEE ENTITY, upon being accepted and signed by the Chairman of GICC constitutes mutual agreement between the IEEE Communications Society, and is binding on the sponsoring organizations and their current and future officers until the subject Conference financial report is accepted by the Sponsors, GICC and IEEE headquarters and the Conference officially closes.
- IV. IEEE Communications Society agrees to provide to the IEEE ENTITY a copy of the approved budget for this conference and a copy of the Final Report. Entities agree to delegate to IEEE Communications Society the right to make all budget and financial decisions and waive any rights to approve the budget.

AGREED BY:

By: Jingsheng Wu

Section Chair,  
IEEE Taipei Section  
TITLE, ORGANIZATION

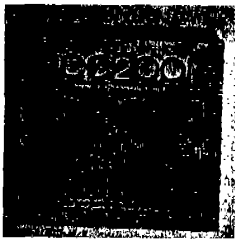
DATE: NOV. 2, 2000

By: Terry Kero

Chairman  
IEEE GICC  
TITLE, ORGANIZATION

DATE: 11-30-00

附件十 --- ICC 2001 與 GLOBECOM 2001 之文宣



ICC 2001 便條文宣



[WWW.GLOBECOM2001.COM](http://WWW.GLOBECOM2001.COM)

Globecom 2001 文宣名片

[WWW.GLOBECOM2001.COM](http://WWW.GLOBECOM2001.COM)

Globecom 2001 便條文宣

## IEEE GLOBECOM 2001-Patrons and Exhibits Invitation

Communications professionals from around the world are coming to San Antonio, Texas, November 25-29, for GLOBECOM 2001. Your participation in this important international communications conference is requested. It brings together researchers and practitioners to present the latest developments in the communications field and explore future directions. Of the two thousand estimated attendees, two thirds are practitioners-technical individual contributors that influence purchase decisions. One third are the educators and researchers pushing the communications envelope.

How can you become involved? Sure, your financial support is being sought, but more importantly, we want you to provide a presence-an exhibit, technical application paper(s), financial support to promote student participation and conference attendees. You will accomplish all of this as a conference patron.

Being a patron is an excellent opportunity to promote your services and products.

Booker Tyrone and Lester (Les)Johnson

Patrons and Exhibits Committee Chairmen

### Who Should Exhibit?

Providers of products and services in voice and data communications

- Service Alternatives
- Quality of Service
- Access and Transport
- Switching and Control
- Network Management

Providers of products and services in wireless and satellite communications!

Providers of products and services in optical and satellite communications!

### Our Conference Patrons

All patrons receive the following benefits:

Your company is introduced at the opening and closing events

Your company is introduced at the opening and banners

Your company logo on conference signs and banners

Your company logo on conference materials

Your company logo on conference promotions (Web page, Advance Program)

A Web link back to your company from the event Web site

Your company banner displayed in the exhibit area (company provides)

### Conference Patrons Choices

There are four levels of patron participation-Gold, Silver, Bronze and Exhibitor Only. You choose the level based on the amount of exhibit space, the level of support for students, the number of corporate speakers, and the number of conference registrations to be included.

### Exhibit Space

Ample exhibit space will be afforded each patron to demonstrate to the local

附件十一 --- GLOBECOM 2001 贊助與展示邀請書

community the wide range of network solutions you have designed to meet the latest technical challenges.

Sponsored Students

Senior and graduate engineering students from the regional universities will be invited to attend the conference with sponsored admission. With the demand for talent continuously escalating, sponsoring a student can give you an excellent opportunity to communicate the value of your company to potential candidates.

Corporate Speakers

Representatives of your company can present an unbiased report on key market, technical, and regulatory developments. They can describe your solutions to overcoming the barriers to future communications, your vision for the evolution of a broadband network infrastructure, and your company's focus for maintaining its technology leadership.

Patron Admissions

Depending on the level of your patronage, you will be given tickets to allow your clients and/or employees to attend the conference at no charge. This will facilitate your ability to reach senior-level telecommunications industry decision-makers when they are most receptive to learning about your products and services.

Gold Patrons (\$50,000)

Exhibit Space	up to 20'x 50'
Sponsored Students	3
Corporate Speakers	3
Patron Admissions	30

Silver Patrons (\$25,000)

Exhibit Space	up to 20'x20'
Sponsored Students	2
Corporate Speakers	2
Patron Admissions	20

Bronze Patrons (\$10,000)

Exhibit Space	up to 10'x 20'
Sponsored Students	1
Corporate Speakers	1
Patron Admissions	10

Levels of Participation	Exhibit Space	Sponsored Students	Corporate Speakers	Patron Admissions
Gold(\$50,000)	20'x50'	3	3	30
Silver(\$25,000)	20'x30'	2	2	20
Bronze(\$10,000)	10'x20'	1	1	10
Exhibitor Only (\$5,000)	10'x10'	0	0	5

GLOBECOM Patron and Exhibitor Contacts

For additional information:

Dr. Booker Tyrone

512-372-5621 [tyrone@tri.sbc.com](mailto:tyrone@tri.sbc.com)

附件十一 -- GLOBECOM 2001 贊助與展示邀請書

FAX 512-372-5691

Lester (Les) Johnson, P.E. 512-432-8148 [lester.johnson@compag.com](mailto:lester.johnson@compag.com)

FAX 512-432-8037

Application for Patron/Exhibitor

(The following content is needed. Use of a different format is permitted.)

Please type or print:

Organization Name

Address

City, State & Zip

Telephone

Fax

Contact Person(name)

E-mail and phone number

=====

GlobeCom 2001 Web Page Link

Address for your company link:

=====

Patron Level Selected:

Gold \$50,000

Silver \$25,000

Bronze \$10,000

Exhibitor Only \$5,000

Please provide one-half of the Patron Contribution with this application with this application. This application is needed by July 31, 2001 for inclusion in the Globe Com 2001 Advance Program. Full payment is required by October 15, 2001.

Payment Method:

Make checks payable to IEEE/Globe Com 2001

If paying by credit card:

Card Type (Visa, Mastercard, American Express) \_\_\_\_\_

Card Number \_\_\_\_\_

Card Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

Exhibit space location preference will be given based on availability on the date of application and the patron level.

Exhibit Space Layout Guidelines

Exhibit space location preference will be given based on availability on the date of application and the patron level selected. Request a current exhibit hall layout from [info@globecom2001.com](mailto:info@globecom2001.com) or view the Provide three exhibit space choices:

附件十一 --- GLOBECOM 2001 贊助與展示邀請書

FAX 512-372-5691

Lester (Les) Johnson, P.E. 512-432-8148 [lester.johnson@compag.com](mailto:lester.johnson@compag.com)

FAX 512-432-8037

Application for Patron/Exhibitor

(The following content is needed. Use of a different format is permitted.)

Please type or print:

Organization Name

Address

City, State & Zip

Telephone

Fax

Contact Person(name)

E-mail and phone number

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GlobeCom 2001 Web Page Link

Address for your company link:

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Patron Level Selected:

Gold \$50,000

Silver \$25,000

Bronze \$10,000

Exhibitor Only \$5,000

Please provide one-half of the Patron Contribution with this application with this application. This application is needed by July 31, 2001 for inclusion in the Globe Com 2001 Advance Program. Full payment is required by October 15, 2001.

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Make checks payable to IEEE/Globe Com 2001

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Card Type (Visa, Mastercard, American Express) \_\_\_\_\_

Card Number \_\_\_\_\_

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Provide three exhibit space choices:

Comments or Special Requirements: