

行政院所屬各機關因公出國人員出國報告書  
(出國類別：其他活動)

# 「2001 年美南科學工程技術討論會及多元化高峰會議」 報告書

出國人員：

服務機關	職稱	姓名
交通部電信總局	局長	簡仁德

出國地區：美國休士頓

出國期間：90 年 5 月 23 日～28 日

報告日期：90 年 7 月

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## 一、前言

2001 年美南科學工程技術討論會及多元化高峰會議 (2001 Science, Engineering and Technology Seminar and Diversity Summit) 主席陳天生先生邀請本人於五月二十六日就「台灣電信發展之現況與展望」作專題演講，與會各界人士逾 250 人。

另我駐休士頓科學組組長楊樂靜博士邀請本人就近順道赴美國電信重鎮達拉斯，向美洲中國工程師學會達福分會的電信從業人員約 40 人，介紹我國電信發展現況。

## 二、行程

- 1.五月二十三日：台北 16:40 啟程，經洛杉磯轉機於 21:27 抵達拉斯。
- 2.五月二十四日：考察達拉斯行動電話基地台設置實景，晚上參加美洲中國工程師學會達福分會主辦的歡迎

餐會並演講。

3.五月二十五日：09:27 搭機赴休士頓出席美南科學工程技術討論會及多元化高峰會議。

4.五月二十六日：繼續出席會議並於午餐上作專題演講。18:25 離休士頓經舊金山搭五月二十七日 01:05 華航班機返台。

### 三、會議紀要

1. 達拉斯目前已發展成為美國電信重鎮，各大電信設備廠商均在此設立機構，對電信科技發展具深遠的影響。美洲中國工程師學會達福分會之會員就有近百人服務於電信部門；所有相關廠商也均甚重視台灣的電信發展狀況，在本人演講過程中討論相當踴躍。
2. 達拉斯、休士頓的行動電話基地台，不論外形、美觀方面均遠勝台灣。部分基地台的偽裝及與

背景環境的協調更是講究，值得台灣業者參考。

3. 2001 年美南科學工程技術討論會今年首創加入多元化高峰會議，於二十五日舉行，吸引當地多家廠商熱烈參與。除了展示作品外，並分組就資源整合策略與多樣化實務等進行研討。
4. 討論會於二十六日分成六組舉行，中午由本人就「台灣電信發展之現況與展望」作專題演講，與會人士逾 250 人。經由此次的演講，有助美南地區的華人瞭解台灣電信發展狀況與政府的努力。

#### 四、結語

1. 台灣電信自由化的亮麗成績已為國際間所矚目，當更能吸引美商來台投資電信事業。
2. 美南科學工程技術討論會過去經費來自青輔會，今年預算大幅緊縮，為維持向心力，政府應有其他配套做法，以彌補預算減少的後遺

症。

3. 學術性的研討會有助於海外學人及僑社瞭解台灣的發展狀況，正值台灣極力要走向國際舞台之際，這方面的加強參與有其必要。

## 五、附件

1. 2001 年美南科學工程技術討論會及多元化高峰會議議程。
2. 台灣電信發展之現況與展望講稿。
3. 演講後媒體的報導兩篇。
4. 德州地區行動電話基地台之相片。

## 附件一

2001 年美南科學工程技術討論會及多元化高峰會  
會議議程

二〇〇一年美南科學工程技術討論會及多元化高峰會議  
2001 SCIENCE, ENGINEERING AND TECHNOLOGY  
SEMINAR (SETS) AND DIVERSITY SUMMIT

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Please visit: <http://members.spree.com/aacp> for updated program

## Conference Program

Theme: the Fusion of Technology and Business in the New Millennium



Organized by  
Association of American-Chinese Professionals (AACP) Foundation

Co-Sponsored by

JPMorgan Chase & Co.  
Chinese American Petroleum Association (CAPA)  
Chinese American Computer Professional Association  
Chinese Petroleum Corporation  
Chinese Writers Association in North America, South  
Chapter  
Formosan Plastics Co.

Marathon Oil Company  
METRO Bank  
Shell Oil Company  
Taiwan Benevolent Association  
Texaco Oil Company  
University of Houston, Asia MBA Program

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**May 25 –26, 2001 at Adam's Mark Hotel, Houston, Texas, U.S.A.**

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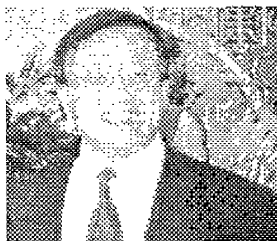
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## WELCOME TO 2001 SETS AND DIVERSITY SUMMIT

**EDWARD CHEN**  
President, AACP Foundation



As the president of the Association of American-Chinese Professionals (AACP), I would like to take this opportunity to welcome each of you to the 2001 Science, Engineering and Technology Seminars (SETS) and Diversity Summit. This year is the first time ever that we have organized a Diversity Summit in conjunction with our traditional Science, Engineering and Technology Seminar (SETS).

On Friday, we will offer a spectacular Diversity Summit and Career Fair. You can learn the best diversity practices used in major corporations and gather ideas for maximizing employee talents. You can meet Career Fair exhibitors and hear about their business products, services and employment opportunities. We will have keynote speakers from among our major sponsors. They including opening remarks by Mr. Jerome Adams, General Manager, Shell Oil Company; luncheon keynote speaker, Mr. Scott J. McLean, President, J. P. Morgan Chase & Company Texas Region, and Dr. Michael Jhin from St. Luke's Episcopal Hospital will wrap up the day's events with closing remarks.

On Saturday, May 26, 2001, we will host various technical workshops and symposiums. In the morning opening sessions keynote speakers are Dr. Richard Smalley, Nobel Laureate, Gene and Norman Hackerman Professor of Chemistry and Director of the Center for Nanoscale Science and Technology, Rice University, and Dr. Mien-Chie Hung, Chairman, Department of Molecular and Cellular Oncology, University of Texas, M. D. Anderson Cancer Center. We will also have another tremendous opportunity to hear from a marvelous speaker, Dr. Jen-ter Chien, Directorate General of Telecommunication of Taiwan, ROC. Dr. Chien is the keynote speaker for Saturday's luncheon. Later in the evening, we will come together at the Chinese Culture Center for a fine meal and live entertainment by a famous entertainer from Taiwan. The high point of the evening comes as we present Dr. Paul Chu, founder of the Texas Center for Superconductivity, Professor of Physics, and T. L. O. Temple Chair of Science at the University of Houston, with the AACP Distinguished Achievement Award for his numerous world-renowned accomplishments in the field of physics superconductivity.

We recognize that a two-day program of this kind could not be accomplished without tremendous support. That help comes to us from our corporate sponsors and this year we are proud to have Shell Oil, J. P. Morgan Chase, Marathon Oil and Texaco as major sponsors of this Diversity Summit and Career Fair. Many others offered their services in a variety of ways contributing to the overall success of the 2001 SETS. For all your help, I say thank you!

We hope that at the end of this year's program you will take away information that will assist you in your professional endeavors. We will continue to share the most up-to-date and valuable knowledge available through programs like this.

Again, as your president, I say welcome to the 2001 SETS and Diversity Summit!

## MESSAGE FROM THE TECHNICAL PROGRAM CHAIRPERSON

**JENNY YANG**

**Chairperson, 2001 SETS and Diversity Summit Organizing Committee  
President-Elect, AACP Foundation**



On behalf of the organizing committee, I sincerely welcome you and proudly present to you the 2001 Science, Engineering and Technology Seminars (SETS) and Diversity Summit. This event marks AACP's very first Summit and Career Fair.

We believe that people is the greatest asset to any organization and that inclusive behaviors in work place are conducive to maximizing employee talents. As a Chinese American professionals organization, the AACP strives to promote professional development among its members and to bridge the gap between the Chinese American professionals and the mainstream society. Therefore, we proudly host the "Diversity – the Power of Inclusion" conference on Friday, May 25. Among many other distinguished speakers and panelists, the three keynote speakers will share their insights with us: Mr. Jerome Adams of Shell, Mr. Scott J. McLean of JPMorgan Chase & Co., and Michael Jhin of St. Luke's Episcopal Health System.

The theme of the 2001 SETS on Saturday, May 26 is "the Fusion of Technology and Business in the New Millennium." The two keynote speakers at our General Session represent the most renowned researchers in their respective field: Dr. Richard Smalley of Rice University, a Nobel laureate, in nano technology, and Dr. Mien-Chie Hung of M. D. Anderson Cancer Center in cancer research. How the cutting edge technologies are brought out of research laboratories and commercialized in the business world is discussed and presented in the "Commercialization of Innovation" session, among many other technical sessions.

For our first Diversity Summit and Career Fair, we are very fortunate to have a number of corporate sponsors whose generous donations made the event possible. Let me express my sincere gratitude for those sponsors. I would also like to thank Dr. Tina Yang, Director, and Ms. Patricia Liu, of the Science Division, Taipei Economic and Culture Office in Houston for their support and assistance. This conference could not have happened without the contributions of many dedicated volunteers. I would like to extend my heartfelt thanks to Simon Tung and Michael Liu, Executive Secretaries, Jerry Chen, Program Editor, and all the volunteers whose dedication and devotion

In closing, I hope that you will find this conference informative and worthwhile. Best wishes.



STATE OF TEXAS  
OFFICE OF THE GOVERNOR



April 11, 2001

Greetings to:

**Association of American-Chinese Professionals**

It is my honor to welcome you to your 23<sup>rd</sup> annual Science, Engineering, Technology Seminars and Diversity Summit in Houston. This conference affords all in attendance the opportunity to meet and share ideas with your counterparts from across the globe.

Texas enjoys great prosperity, thanks to our free enterprise system and the hardworking men and women who envision, develop and undertake innovative business ideas. I commend the work of the AACCP in promoting the exchange of ideas, information and technology and business opportunities.

Your efforts are furthering entrepreneurship and a spirit of innovation and excellence key to the Texas of the future.

Houston is a magnificent city offering a diverse selection of dining, entertainment and recreational activities. I hope you will have time to explore the city and experience the warm hospitality of Texas.

Anita joins me in sending best wishes for a memorable conference.

Sincerely,

A large, stylized handwritten signature of Rick Perry in black ink.

Rick Perry  
Governor

# Proclamation

## Association of American Chinese Professionals Science, Engineering & Technology Seminars and Diversity Summit

Founded in 1978, the Association of American Chinese Professionals (AAPCP) strives to promote professional development and fellowship among its members. It provides opportunities for its members to broaden their professional careers by exchanging knowledge and experience in their respective fields of specialization; and provides a forum for the exchange of technology.

On May 25 - 26, 2001, the Association of American Chinese Professionals will host its annual *Science, Engineering & Technology Seminars (SETS)* and Diversity Summit. This multi-disciplinary conference will welcome scientists, engineers, scholars, and practitioners to share their research results and experience in science, technology, business, and culture. *SETS* will provide information and educational opportunities for participants through technical workshops, panel discussions, and a symposium.

The City of Houston welcomes and salutes the Association of American Chinese Professionals on this occasion, and extends best wishes to all for a successful and rewarding event.

Therefore, I, Lee P. Brown, Mayor of the City of Houston, hereby proclaim May 25 - 26, 2001, as

## Association of American Chinese Professionals Science, Engineering & Technology Seminars and Diversity Summit Days

in Houston, Texas.



In Witness Whereof, I have hereunto set my hand and have caused the Official Seal of the City of Houston to be affixed this 26<sup>th</sup> day of April, 2001, A.D.

A handwritten signature in cursive script, appearing to read "Lee P. Brown".

Lee P. Brown  
Mayor of the City of Houston



ROBERT ECKEL  
COUNTY JUDGE



Greetings:

On behalf of the Harris County community, I am pleased to extend a warm welcome to the attendees of the Twenty-third Annual Science, Engineering, Technology Seminars and Diversity Summit.

I commend the Association of American-Chinese Professionals for sponsoring this outstanding conference that will draw participants from all parts of the United States and Taiwan. It will be an excellent opportunity to exchange ideas and information, to learn about numerous technologies, and to open the door to new business possibilities. The addition of the Diversity Summit/Job Fair and Commercialization of Emerging Technologies to the conference should increase its value for all the attendees.

I urge you to take the time to enjoy all the different amenities our area has to offer while you are visiting with us. Best wishes for a exciting and informative conference.

Sincerely,

A handwritten signature in black ink, appearing to read "RE", written over a faint circular stamp.

Robert Eckel  
County Judge

LETTER FROM EXECUTIVE OF SHELL OIL CO.

Dear Friends:

Welcome to Houston and the Association of American-Chinese Professionals (AACP) Twenty Third Annual Science, Engineering and Technology Seminars and Diversity Summit. Shell is proud to be a sponsor of this year's event and especially is pleased to support your program on diversity in the workplace.



Shell's commitment to diversity ranks equal to our strong commitment to environmental and financial performance and to our customers. We are working diligently to fulfill our vision of being a premier employer. The challenge for all our organizations is to manage this change process successfully and transform our ideas into practical, meaningful actions. We have to find ways to help our employees achieve their goals and meet the company's needs at the same time.

I congratulate you for dedicating part of your annual program to exploring diversity issues. I encourage you to take full advantage of the opportunity to share your learnings with each other so that we can move our organizations to a new level. We need to work together . . . to share best practices . . . so that no opportunity is missed to achieve an environment of inclusion and engagement within all of our organizations.

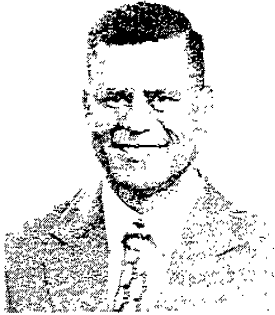
Sincerely yours,

A handwritten signature in cursive script that reads "Steve Miller".

Steve Miller  
Chairman and Chief Executive Officer  
Shell Oil Company

## **JEROME ADAMS**

General Manager  
Shell Oil Company



Jerome joined Shell in September of 1995 as Executive Director of the Shell Learning Center, and Chief Learning Officer reporting to the President and CEO of Shell Oil Company.

Effective October 1, 1997, Jerome became General Manager, Learning and Transformational Change at Shell Oil Company.

In October of 1999, Jerome was appointed to the Executive Leadership Team of Shell Oil and as General Manager, Corporate Services. In that capacity, he is working on the Blueprint for Success that defines the role of Shell in the U.S. to create shareholder value for Royal Dutch.

As a direct report to the CEO and a member of his leadership team. Jerome is the architect to work with the four lines of business to redefine Shell's national brand, reputation and license to operate in the U.S. on behalf of Royal Dutch Shell. The operating plan commonly called the Shell blueprint relates to executing global strategy in the U.S. operations. He also assumed the lead for Diversity in the U.S., is the Corporate Compliance Officer and has P&L responsibility for Corporate Real Estate and Corporate Aviation assets. As the head of Diversity, he is responsible for M/WBE, and pipeline development for the next generation of Shell leaders in the U.S. His P&L responsibility for Land Investment portfolio is a \$130 million dollar business. Also, he has oversight for Corporate Real Estates' \$71 million dollar annual budget.

Jerome comes to Shell from USF&G Corporation as Vice President Organizational Development Compensation & Benefits. Jerome was recruited to USF&G from TRW, where he reported to the Head of the Aerospace Business as Director of the Center for Leadership and Management Development. Prior to his work at TRW, Jerome was responsible for the leadership development programs at General Electric's Corporate Management Institute "Crotonville." He was a tenured research professor at the US Military Academy at West Point and directed the Army's integration of women into the Corps of Cadets at West Point -- Project Athena.

Jerome has an undergraduate degree from Morgan State University, a Master's Degree from the George Washington University and a Ph.D. from the Krannert Graduate School of Management at Purdue. He is a Fellow of the American Psychological Association, and has served as a member of The Conference Board, and on the boards of directors for the Business Schools at Texas A&M and Purdue University. He has also been a member of the board of directors for Norco, a Shell subsidiary company. He is a member of the board of directors for Shell Deepwater Development, Inc., and a member of the board of directors for Shell Deepwater Production, Inc., affiliates of Shell E&P Company. He is married to his lifelong partner, Debbie, and has two sons, Jerome and Tim.



**SCOTT J. McLEAN**  
PRESIDENT  
JPMorgan Chase & Co.  
Houston Region



Scott McLean has served as President of JPMorgan Chase - Houston Region since July, 1998. In addition to his responsibilities as President, he also co-manages Commercial, Franchise and Trademark and International Banking statewide with the regions outside of Houston and the Metroplex reporting to him. Prior to this assignment Scott co-managed The Private Bank on a statewide basis. Since moving back to Houston in 1997, he has joined the United Way Board Executive Committee and currently serves as Chairman. He is also a member of the Board of Directors of the Sam Houston Area Council-Boy Scouts of America, Houston Ballet Foundation Board Executive Committee, and he is a member of the Young Presidents' Organization.

Scott also served as the Chairman for the 1999 National Conference for Community and Justice's (NCCJ) 50<sup>th</sup> Annual Humanitarian Awards dinner.

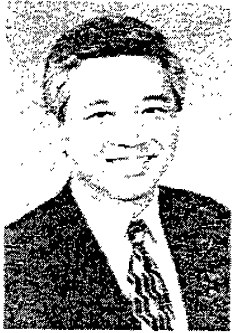
Scott McLean served as Chairman and Chief Executive Officer of Chase's (formerly Texas Commerce Bank) bank in El Paso from May, 1993 to January, 1997. The bank in El Paso is Chase's third largest bank providing banking services to El Paso, southern New Mexico and northern Mexico. In El Paso, McLean was Chairman of the Greater El Paso Chamber of Commerce and served on the Providence Hospital Board of Trustees and its successor organization the Paso del Norte Health Foundation. Additionally, he was a member of the Corporate Advisory Board for the Hispanic Chamber of Commerce, member of the University of Texas El Paso Development Board and a charter member of University of Texas El Paso's Board of Fellows. He was one of the organizers of both the Mayor's Task force on NAFTA Business Development and the Paso Del Norte Group which were formed to coordinate the community's initiatives for the bi-national region's infrastructure and economic development. In addition, he served on the steering committee for the capital campaigns associated with the El Paso Shelter for Battered Women, the Boys & Girls Club, YMCA and the YWCA.

Prior to moving to El Paso, McLean served as President of Chase's (formerly Texas Commerce Bank) Dallas bank for eight years. During his tenure in Dallas, he was active in numerous community activities. He served as 1992 Chairman of the Area-wide General Campaign for the Dallas United Way raising over \$41 million and as Vice Chairman of the Board. He was actively involved with Children's Medical Hospital and was elected Vice Chairman of that Board. His involvement with Southern Methodist University is extensive, currently serving on the Executive Committee of the University's \$400 million capital campaign and having served as President of the Alumni Association and a member of the University's Board of Trustees. He has also served as 1991 Annual Fund Chairman and as an Associate Board Member for the Edwin L. Cox School of Business. McLean has served as Chairman of the Texas Business Hall of Fame Foundation and has been a member of the Dallas Hispanic Chamber's Corporate Advisory Board. Additionally, McLean served as a Director of Presbyterian Hospital, the Salvation Army and was a member of the Dallas Assembly and Citizens Council.

McLean has been with Chase Bank since 1979. He began work with Texas Commerce Bank in Houston as a Credit Supervisor for training credit analysts. McLean became a lending officer in the Southwest Division calling on the Dallas/Ft. Worth area and subsequently was promoted to Vice President in the Metropolitan Corporate Division. In 1982 he was promoted to Chairman and Chief Executive Officer of Texas Commerce Bank-Greenway Plaza which had total assets of \$100 million.

McLean received his Bachelor of Business Administration from Southern Methodist University and his MBA from Northwestern University Graduate School of Management.

**Michael K Jhin**  
President and Chief Executive Officer  
St. Luke's Episcopal Health System in Houston



Michael Jhin is the President and Chief Executive Officer of St. Luke's Episcopal Health System in Houston, Texas. The System is anchored by its flagship St. Luke's Episcopal Hospital in the prestigious Texas Medical Center. St. Luke's, home of The Texas Heart Institute, has been consistently ranked as one of America's premier heart hospitals and enjoys an international reputation for quality care in many other medical specialties as well.

Mr. Jhin joined St. Luke's in 1990. Prior to that time, he served in leadership positions at Long Beach Memorial Medical Center in California, Temple

University Hospital in Philadelphia and was a senior executive at Thomas Jefferson University Hospital also in Philadelphia.

Mr. Jhin has a bachelor's degree in mechanical engineering from Rensselaer Polytechnic Institute, and earned his master's degree in business administration from Boston University while fulfilling his health care administration concentration at Harvard University School of Public Health.

He is very active in the Houston community as well as serving on boards of numerous national organizations. He serves on the board of directors of the Greater Houston Partnership, United Way – Texas Gulf Coast, Joint Commission on Accreditation of Healthcare Organizations, Alley Theatre, Texas Heart Institute, Houston World Affairs Council, and Houston Forum. He has also served on the boards of the Texas Hospital Association, Rensselaer Alumni Association (National Chairman 96-97), and Greater Houston Hospital Council (Chairman 94-95). He is also a member of the World Presidents' Organization, and is a Fellow of the American College of Healthcare Executives (Houston Chapter Chairman 94).

Mr. Jhin has devoted his entire professional career to the non-profit sector of American healthcare. He has been an industry leader in advocating fuller community stewardship that focuses on mission performance in addition to corporate performance. Two years ago, with \$150 million of St. Luke's reserves, the St. Luke's Episcopal Health Charities was established for the sole purpose of investing in the health of all Houstonians.

Michael and his wife Susan are proud to call Houston their home and have three very active and loving children.

**Richard E. Smalley**  
Nobel Prize Laureate and Professor of Chemistry  
Rice University

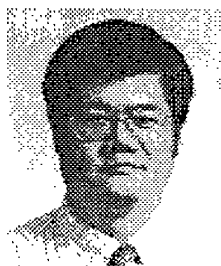


Richard E. Smalley received his B. S. degree in 1965 from the University of Michigan and Ph.D. from Princeton in 1973, with an intervening four-year period as a research chemist with Shell. During the postdoctoral period with Lennard Wharton and Donald Levy at the University of Chicago, he pioneered what became one of the most powerful techniques in chemical physics: supersonic beam laser spectroscopy. Professor Smalley came to Rice University in 1976, and was named to the Gene and Norman Hackerman Chair in Chemistry in 1982. He was one of the founders of the Rich

Quantum Institute in 1979, and served as the Chairman of this interdisciplinary institute from 1986 to 1996. Since January 1990 he has been a professor in the Department of Physics, and was appointed Director of the new Center for Nanoscale Science and Technology at Rice in 1996. In 1990 he was elected to the National Academy of Sciences, and in 1991 to the American Academy of Arts and Sciences. He is the recipient of the 1991 Irving Langmuir Prize in Chemical Physics, the 1992 International Prize for New Materials, the 1992 E. O. Lawrence Award of the U. S. Department of Energy, the 1992 Robert A. Welch Award in Chemistry, the 1993 William H. Nichols Medal of the American Chemical Society, the 1993 John Scott Award of the City of Philadelphia, the 1994 Europhysics Prize, the 1994 Harrison Howe Award, the 1995 Madison Marshall Award, the 1996 Franklin Medal, and the 1996 Nobel Prize in Chemistry

Professor Smalley's research at Rice has made pioneering advances in the development of new experimental techniques (super-cold pulsed beams, ultrasensitive laser detection technique, laser-driven source of free radicals, triplets, metals, and both metal and semiconductor cluster beams). He is widely known for the discovery and characterization of  $C_{60}$  (Buckminsterfullerene) which, together with other fullerenes such as  $C_{70}$ , now constitutes the third elemental form of carbon (after graphite and diamond). His current research is focused on the production of continuous carbon fibers that are expected to be the strongest fiber ever made, 100 times stronger than steel.

**Mien Chie Hung**  
Chair Person  
Department of Molecular and Cellular Oncology  
U.T. M.D. Anderson Cancer Center.



Mien Chie Hung received his B. S. degree in Chemistry and M. S. degree in Biochemistry, both from National Taiwan University in 1973 and 1977. He received his Ph.D. in Biochemistry from Brandeis University, Mass. In 1983 and conducted his post-doctoral research in Oncogene at Whitehead Institute, MIT from 1984 to 86. He was an assistant research fellow, at the Institute of Biological Chemistry, Academia Sinica, Republic of China from 1977 to 78. While at Brandeis University he was a Predoctoral Fellow in the Department of Biochemistry and was on Gillette

Graduate Teaching Fellowship from 1978 to 1983.

From 1984 to 1986, Dr. Hung was a Postdoctoral Fellow at Whitehead Institute, MIT, under Postdoctoral fellowship from Cancer Research Institute. He was appointed as assistant professor, Department of Tumor Biology, The University of Texas M.D. Anderson Cancer Center in 1986 and became an associate professor in 1991. In 1994 he was promoted to full professor and served as Deputy Chairman (*ad interim*) from 1996 to 1998.

From 1996 to present he has been Director of Breast Cancer Basic Research Program at U.T. M.D. Anderson Cancer Center. He received the Hubert L. and Olive Stringer Endowed Professorship and Hubert L. and Olive Stringer Distinguished Professorship, respectively, from 1996 to 1999. From 1998 to 1999, he became Section Chief of Molecular Cell Biology at Department of Cancer Biology, U.T.M.D. Anderson Cancer Center.

From 1999 to 2000 he received in Cancer Research, U.T. M. D. Anderson Cancer Center and from 1999 to 2000 he was Chair (*Ad interim*) of the Department of Molecular and Cellular Oncology, U.T. M. D. Anderson Cancer Center.

From 2000 to present, he holds Ruth Legett Jones Chair at Department of Molecular as well as Ruth Legett Jones Distinguished Chair, respectively at the Cellular Oncology, U.T. M. D. Anderson Cancer Center.

He has been the Department Chair from 2000 to present. Dr. Hung has published 145 papers in the professional journals of his field.

**Jen-Ter Chien**

Director General

Directorate General of Telecommunications, MOTC



Dr. Jen-Ter Chien, born in 1944, received his B.S. in Industrial Engineering from Chung Cheng Institute of Technology, M.S. in Operations Research from Naval Postgraduate School, U.S.A., and Ph.D. in Management Sciences from Tamkang University in Taiwan. Currently, he is the Director General of the Directorate General of Telecommunications. He has ever assumed positions as Dean of Undergraduate School, Defense Management College; Director General of Environmental Protection Administration (EPA); Superintendent of EPA; Director General of General Affair and Secretariat Dept., MOTC, Counselor of MOTC; and Director General of Post &

Telecommunications Dept., MOTC. During his tenure as the Director General of Post & Telecom Dept., he devoted himself to the telecom reform and contributed a lot to telecom liberalization.

Since taking office of the Director General of the DGT in 1997, he has accomplished many unprecedented achievements. In telecom liberalization, he completed the deregulation of satellite communication, submarine cable leased-circuit, and fixed-line services in a progressive approach. Now he is executing 3G licensing plan. In new technology introduction, he is dedicated to digital TV and Digital Audio Broadcasting (DAB). In fair competition and consumer protection, in addition to establishing relevant regulations, he has set up a window to deal with consumers' complaints on telecom services and carries on QoS survey periodically. As a result, domestic people can enjoy the high-quality telecom services at a low price.

## PAUL C. W. CHU

Director, Texas Center for Superconductivity  
and Professor of Physics, University of Houston



Dr. Paul C. W. Chu is currently serving as the Director of the Texas Center for Superconductivity, Professor of Physics, and T. L. L. Temple Chair of Science at the University of Houston. He was born in Hunan, China, and received the B.S. degree from Cheng-Kung University in Taiwan. After service with the Nationalist Chinese Air Force, he earned the M.S. degree from Fordham University, Bronx NY, and completed the Ph.D. degree at the University of California at San Diego, all three degrees being in Physics. He has been working on Superconductivity, Magnetism, and Dielectrics.

After doing industrial research with Bell Laboratories at Murray Hill, New Jersey, Dr. Chu held an academic appointment at Cleveland State University. He assumed his appointment at the University of Houston in 1979. He had also served as consultant and visiting staff member at Bell Labs, Los Alamos National Lab, the Marshall Space Flight Center, Argonne National Lab, and DuPont at various times.

He has been working on superconductivity since his days with Bernd T. Matthias at the University of California at San Diego. In January 1987, he and his colleagues achieved stable superconductivity at 93 K (-180 °C), above the critical temperature of liquid nitrogen (-196 °C). They continue to find new compounds with high transition temperatures. Recently, they again obtained stable superconductivity at a new record high temperature of 164 K (-109 °C) in another compound when compressed. Presently, he is actively engaged in the basic and applied research of high temperature superconductivity. His research activities extend beyond superconductivity to magnetism and dielectrics. His work has resulted in the publication of more than 460 papers in refereed journals.

He has been elected as a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the Chinese Academy of Sciences (Beijing), the Academia Sinica (Taipei), the Third World Academy of Sciences, and the Electromagnetic Academy, and is a Fellow of the American Physical Society and the Texas Academy of Sciences. He has received honorary doctorates from Northwestern University, Fordham University, The Chinese University of Hong Kong, Florida International University, The State University of New York at Farmingdale, Hong Kong Baptist University, and Whittier College. In 1990 he was selected the Best Researcher in the U.S. by US News and World Report.

He has received numerous awards, including the National Medal of Science, the International Prize for New Materials, the Comstock Award, Texas Instruments' Founders' Prize, the Leroy Randal Grumman Medal, the World Cultural Council Medal of Scientific Merit, the New York Academy of Sciences' Physical and Mathematical Science Award, the Bernd Matthias Prize (M2S-HTSC), the Award of Excellence in Scientific Accomplishments (World Congress on Superconductivity), the St. Martin de Porres Award, and the Esther Farfel Award (University of Houston). He serves on the editorial boards of various professional journals and is a member of the board of directors of the Council on Superconductivity for American Competitiveness.

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Diversity Summit	Douglas H. Sung	沈鴻圖
Diversity Summit	Ernest Smith	
Diversity Summit	Angela Vallot	
Diversity Summit	Charles Cheng	程桐
Diversity Summit	Jenny Yang	陳津源
E-Marketing Theory and Practice	Agnes Cheng	鄭振興
E-Marketing Theory and Practice	Allen Hung	洪逸光
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Petroleum Technology Workshop	Ed Liu	劉毅琛
Petroleum Technology Workshop	Donald Chang	張啓夫
Petroleum Technology Workshop	Chi-Chung Chang	張濟群
Petroleum Technology Workshop	Shi-Lin Yeh	葉錫麟
Polymer Symposium	Benjamin Chang	常台安
Polymer Symposium	Andy Tsou	鄒海雄
Polymer Symposium	Chris Li	



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**2001 SETS SCHEDULE at-A-Glance**

<b>Friday, 5/25/2001</b>									
9:00a.m.-5:00p.m.	Career Fair								
8:30a.m.-12:00 noon	Diversity Summit I (Westchase)								
8:30a.m.-9:00a.m.	Kick-off, Jerome Adams								
9:00am-12:00 noon	Diversity Summit I Program (Westchase)								
12:00 noon -	Keynote Address Luncheon (Rose Garden)								
1:30p.m.	Keynote Speaker: Scott J. McLean								
1:45p.m.-4:30p.m.	Diversity Summit II A (Meadowglen)								
1:45p.m.-4:30p.m.	Diversity Summit II B (Westchase)								
4:30p.m.-5:00p.m.	Closing Remarks: Michael Jhiin								
<b>Saturday, 5/26/2001</b>									
7:00a.m. -8:45a.m.	Speakers Breakfast Meeting (Chairpersons and Speakers only)								
8:30a.m.-11:00a.m. (see each session for exact time)	Petroleum Technology Workshop I,II,III (Westchase)	Commercialization of Innovation I (Salon A)	Information Technology I (Salon B)	Environmental Technology (Westchase IV)	Polymer Symposium I (Salon C)	Financial Planning (Briarpark I)			
11:00a.m. - 12:00 noon	General Session (Salon F, G, H) Opening Remarks: Edward Chen Welcome Address: Chung-Sheng Chen Keynote Speakers: Richard Smalley, Mien Chic Hung								
12:00 noon - 2:00 p.m.	Luncheon (Saloon D, E) Keynote Speakers: Jen-ter Chien, Rong Hwai Shieh AACP Foundation Leadership Scholarship Award Mr. Chien Sung Wu Memorial Scholarship Award Formosa Plastics Scholarship Award AACP Distinguished Service Award								
2:00p.m.-5:00p.m. (see each session for exact time)	Petroleum Technology Workshop IV, V (Westchase I, II)	Commercialization of Innovation II (Salon A)	Polymer Symposium II (Salon C)	Medical Science (Briarpark I,II)	Chinese Literature (Salon F,G,H)	information Technology II (Salon B)	Mid Life Opportunity (Westchase IV)	E-Marketing Theory and Practice (Westchase III)	
6:00p.m.-10:00p.m.	Distinguished Achievement Award, Dinner and Entertainment Recipient: Dr. Paul Chiu Chinese Culture Center (10303 West Office Drive, Houston)								

**Career Fair**  
Friday, 9:00 a.m.-5:00 p.m.

Coordinators:  
Chi-Chung Chang 張濟群 URS  
Tom Tsai 蔡忠和 Dow Chemical  
Charles Cheng 程桐  
JPMorgan Chase & Co.

**Diversity Summit**  
Friday, 8:30 a.m.-5:00 p.m.  
Westchase

Organizers:  
S. Ming Sung 孫嗣敏  
Shell Oil Company  
Evette Torres  
Shell Oil Company  
Douglas H. Sung 沈鴻圖  
JPMorgan Chase & Co.  
Ernest Smith  
JPMorgan Chase & Co.  
Angela Vallot  
Texaco  
Jenny Yang 陳津源  
Marathon Oil Company

**Diversity Summit I**  
Friday, 8:30 a.m.-12:00 noon  
Westchase

*Kick-off*  
Jerome Adams, General Manager, Strategic  
Resource Integration & Services  
Shell Oil Company

*Inclusive Behavior – Interactive Theatre*  
An interactive diversity learning experience  
facilitated by the Multi Culture Institute.

**Keynote Address and Luncheon**  
Friday, 12:00 noon –1:30 p.m.  
Rose Garden

Welcome Address:  
Gordon Quan 關振鵬  
Council Member, City of Houston

Keynote Speaker:  
Scott McLean, President  
JPMorgan Chase & Co. – Texas Region

**Diversity Summit II A**  
Friday, 1:45 p.m.-4:30 p.m.  
Meadowglen

1. *Diversity Best Practices*  
Chairperson:  
Ernest Smith  
JPMorgan Chase & Co.

Panelist:  
Halen Cavazos  
M. H. Cavazos & Associates  
Danny Foster  
Texaco

2. *Employee Networks/Initiatives*  
Chairpersons:  
Eugenia Rabago  
Equiva Services, LLC  
Pat Richards  
Texaco

Panelist:  
Tai-Chang Shih  
Texaco

**Diversity Summit II B**  
Friday, 1:45p.m.- 4:30 p.m.  
Westchase

1. *Recruiting and Retention*  
Chairpersons:  
S. Ming Sung 孫嗣敏  
Shell Oil Company  
Carolyn Kenner Varner  
Metropolitan Transit Authority

Panelists  
Craig B. Clayton, Sr.  
University of Houston  
Mary Ann Collier  
Metropolitan Transit Authority  
Karyn Hennesy

Shell People Services  
Rozetta Kaufman  
Texaco

## 2. Mentoring

Chairpersons:  
Douglas H. Sung 沈鴻圖  
JPMorgan Chase & Co.  
John Donahoe  
Marathon Oil Company

Panelists  
Kevin O'Brien  
Retired, JPMorgan Chase & Co.  
Rodney W. Green  
Compaq Computer  
Carmen Carter  
Marathon Oil Company

Closing Remarks: 4:30 p.m.-5:00 p.m.  
Michael Jhin, President and CEO  
St. Lukes's Episcopal Health Systems

**Speakers Breakfast Meeting**  
Saturday, 7:00 a.m.-8:45 a.m.

For Chairpersons and Speakers only.

**Petroleum Technology Workshop**  
Saturday, 8:30-11:00 and 2:00-5:00

Coordinators:  
Paul Cheng 程俊三 Consultant  
Chen-Hwa Chiu 邱震華 Texaco

**Petroleum Technology Workshop I**  
Saturday, 8:30 a.m.-11:00 a.m.  
Westchase I

## *Pipeline Design, Construction and Operation -I*

Chairpersons:  
Donald Chang 張啓夫  
R J Brown Deepwater, Inc.  
Shi-Lin Yeh 葉錫麟

Columbia Gulf Transmission Co.

Panelists:  
Paul Cheng 程俊三 Consultant  
Donald Chang 張啓夫  
R J Brown Deepwater, Inc.  
Shi-Lin Yeh 葉錫麟  
Columbia Gulf Transmission Co.  
Han Chien Yen 顏漢強  
Bechtel Corporation  
Henry Wang 王恒  
Columbia Gulf Transmission Co.

**Petroleum Technology Workshop II**  
Saturday, 8:30 a.m.-12:00 noon.  
Westchase II

## *LNG Terminal and Shipping*

Chairperson: Chen-Hwa Chiu 邱震華 Texaco

Panelists:  
Chen-Hwa Chiu 邱震華 Texaco  
C. C. Yang 楊啓烝 Foster Wheeler  
Steve Fang 方士立 Halliburton

**Petroleum Technology Workshop III**  
Saturday, 8:30 a.m.-11:00 noon  
Westchase III

## *Fuel Specification and Linear Programming*

Chairperson: Ed Liu 劉毅琛 Texaco

Panelists:  
Ed Liu 劉毅琛 Texaco  
Melcomb Sharp, Merichem  
John Wen 文鐘  
Shell Deer Park Refining Co.  
Dick Lightfoot, Aspen Technology  
Paul Feder, Aspen Technology

**Commercialization of Innovation I  
Biomedical Application**  
Saturday, 8:30 a.m.-11:00 a.m.  
Salon A

Chairperson: Chin-Tu Chen 陳津渡  
University of Chicago

1. Ed Yeh 葉篤行 Chairman, Department of Cardiology, M.D. Anderson Cancer Center
2. *The Road from Invention to a Therapeutic Technology – Bio-artificial Liver as a Case Study*  
Wei-Shou Hu 胡維碩  
University of Minnesota  
Lex Lee, Dennis Anderson and Leonard Ruiz
3. *Defining a Life Science Investor/Partner for Commercialization of Innovation*  
為生命科學創新商品化界定投資伙伴的角色  
Steve Chuang, Managing Director,  
Trimax Venture LLC  
莊啓祥, Trimax 風險投資公司執行經理  
合夥人
4. *From Research laboratories to Business Enterprises – Challenges and Opportunities*  
從研究實驗室到商務企業 - 機會與挑戰  
Chin-Tu Chen, Director, Frank Center for Image Analysis, The University of Chicago; Chairman, Leading Edge Medical Engineering Global, Inc.  
陳津渡, Chicago 大學法蘭克影像分析研究中心主任, 翰宸醫學工程科技公司董事長
5. *Development of Biomedical Engineering Research and Industry in Taiwan*  
台灣醫學工程科研及產業發展之新趨勢  
Neddy H.C. Hwang, Director, Medical Engineering Division, National Health Research Institute, Taiwan  
黃煥常, 國家衛生研究院, 醫學工程主任

**Information Technology I**  
Saturday, 8:30 a.m.-11:00 a.m.  
Salon B

Chairpersons:  
Jessie Wang 汪乃強 Enron  
Chie-Chung Yen 嚴致中 Elpaso

“Your Second Degree – Professional Certificate”

1. *Introduction to Microsoft Certification*  
Alex Chang, Compaq Computer
2. *The J2EE Architecture Overview*  
Tai F. Wang, Williams
3. *Introduction to Oracle Certified Professional (OCP)*  
Ivan Liu

**Environmental Technology**  
Saturday, 8:30 a.m.-11:00 a.m.  
Westchase IV

- Chairperson: Tom Chiang 江川賢
1. *Fate of Decommissioned Computers*  
Pao-Chiang Yuan 袁保強  
Jackson State University  
YouGuo Xu and Doris McPherson  
Jackson State University
  2. *The Municipal Waste Treatment in China: A Case Study from the Second Shanghai Sewerage Project (SSPII)*  
Michael Liu 劉志恒  
Vice President, BRI
  3. *Environmental Oversight Monitoring: Smart Environmental Programs for Industrializing Countries*  
Tom C. H. Chiang 江川賢  
Lockheed Martin Environmental Services
  4. *Control of Storm-water Runoff Quality at the Northwest Arkansas Regional Airport*

Yu-Chun Su 蘇育群 PBS&J

5. *Improved Understanding of Ozone Transport Characterizations Over the Gulf Coastal Region*

Shih-Ang Hsu 徐世昂  
Louisiana State University

6. *Pesticides in Vegetables and Fruits: A Pesticide Monitoring Program with a Local Grocery Chain*

Joseph C. Pan  
Southwest Research Institute

**Polymer Symposium I**

Saturday, 8:30 a.m.-11:00 a.m.  
Salon C

Chairpersons: Andy Tsou 鄒海雄  
Chris Li

“Advanced Polymer Technology”

Moderators:

H. Wang 王憲章  
ExxonMobil Chemical  
C. J. Chen 陳志堅  
Formosan Plastics

1. Plenary Lecture: Materials Science in Polymer Research

S. Chum 章伯樂  
Herbert Dow Metal Holder, Dow Chemical

2. *Polymer Nanocomposites*

H-J. Sue 蘇皇宇  
Texas A&M University

3. *Metallocene Catalysts and Ethylene Copolymerization with higher Olefins*

G. Xu  
Formosan Plastics

4. *Neo Vinyl Ester Latexes for Wood, Metal, and Concrete Coatings*

H. W. Yang 楊武祥  
ExxonMobil Chemical

5. *Influence of Ultraviolet Radiation on the Low Velocity Impact Response of Laminated Composite*

Su-Seng Pang 彭樹成  
Louisiana State University  
Guoqiang Li 李國強  
Louisiana State University

6. *Impact Response of Adhesive Bonded Single-Lap Composite Joints under Ultraviolet Radiation and Sea Water Attacks*

Guoqiang Li 李國強  
Louisiana State University  
Su-Seng Pang 彭樹成  
Louisiana State University

**Financial Planning**

Saturday, 8:30 a.m.-11:00 a.m.  
Briarpark I

Chairperson: Ball Lee 李仕球  
AXA Advisors

Speakers:

*International Aspect of Tax Planning for Corporation and Individual*

Allen Tiller,  
Shareholder of Chamberlain, Hrdlicka, Williams & Martin

*529 Education Plan and Different Investment Vehicles*

Ball Lee 李仕球 AXA Advisor

*Pros and Cons of Estate Planning*

Andy Lai 賴清陽  
Law Office of Lai and Associates  
Emily Wang  
Law Office of Lai and Associates

**General Session**

Saturday, 11:00 a.m.-12:00 noon  
Salon F, G, H

Mistress of Ceremony: Jenny Yang 陳津源  
President-elect, AACP

Opening Remarks: Edward Chen 陳天生  
President, AACP

Welcome Address:  
Chung-Sheng Chen 陳聰勝  
Vice-Chairman, National Youth  
Commission, Taiwan, ROC  
行政院青輔會副主任委員

Keynote Speakers:

*Development and Commercialization of  
Carbon Nanotubes*

Dr. Richard Smalley, Nobel Prize Laureate,  
Gene and Norman Hackerman Professor of  
Chemistry and Director of the Center for  
Nanoscale Science and Technology  
Rice University.

*Gene Therapy in Cancer.*

Dr. Mien-Chie Hung 洪明奇  
Chairman, Department of Molecular and  
Cellular Oncology, University of Texas,  
M.D. Anderson Cancer Center

**Keynote Address and Luncheon**

Saturday, May 26, 2001  
12:00 noon-2:00 p.m.  
Ballroom D, E

Keynote Speaker:

*Telecom Status Quo and Prospects in Taiwan*  
台灣電信發展之現況與展望

Jen-Ter Chien, Ph.D. 簡仁德  
Director General, Directorate General of  
Telecommunications, MOTC  
Taiwan, ROC

Ronald H. Shieh 謝榮輝  
Vice President, Chinese Petroleum Corp.  
中國石油公司

AACP Foundation Leadership Scholarship  
Award:

Mr. Chien Sung Wu Memorial Scholarship  
錢繩武先生紀念獎學金

Formosa Plastics Scholarship  
台塑獎學金

Recipients: Andrew Chew 趙善昌  
Charlene Wu 吳陝霖

AACP Distinguished Service Award  
Recipients: Chia-Wei Foo 姚嘉為  
Peggy King 金楊碧璣  
Frank Lin 林國強

**Petroleum Technology Workshop IV**

Saturday, 2:00 p.m.-5:00 p.m.  
Westchase I

*Pipeline Design, Construction and Operation*  
- II

Chairpersons:

Donald Chang 張啓夫  
R J Brown Deepwater, Inc.  
Shi-Lin Yeh 葉錫麟  
Columbia Gulf Transmission Co.

Panelists:

Paul Cheng 程俊三 Consultant  
Donald Chang 張啓夫  
R J Brown Deepwater, Inc.  
Shi-Lin Yeh 葉錫麟  
Columbia Gulf Transmission Co.  
Han Chien Yen 顏漢強  
Bechtel Corporation  
Henry Wang 王恆  
Columbia Gulf Transmission Co

**Petroleum Technology Workshop V**

Saturday, 2:00 p.m.-5:00 p.m.  
Westchase II

*Environmental Protection*

Chairperson: Chi-Chung Chang 張濟群  
URS

Panelists:

Chi-Chung Chang 張濟群 URS  
Daniel Chang 張景河 BP

**Commercialization of Innovation II**

Saturday, 2:00 p.m.-5:00 p.m.

Salon A

Chairpersons:

Steven Pei 白先慎 University of Houston  
Frank Chou 周禧 Shell Oil Company  
Michael Pao 鮑亦和

1. *Venture Capital and Startups*

Shing Mao, 毛鑫

General Partner, Technology Associates  
Management Co., LTD and former  
chairman of Lite-On U.S.A.

2. *Angel Investment and Incubator*

Bob Lin 林富元

Co-Founder, Acorn Venture Partners  
and Acorn Campus

3. *Beyond the Ivory Tower*

Susan Hardin

President, VisiGen Biotechnologies, Inc.

4. *What is Next for High Temperature  
Superconductor?*

Louis Castellani

President, Metal Oxide Technologies

5. *Telecommunication Startup in Houston*

Chih-Hsiang Thompson Lin 林誌祥

President, Applied Optoelectronics Inc.

6. Panel Discussions

Moderator: Steven Pei 白先慎  
University of Houston

**E-Marketing Theory and Practice**

Saturday, 2:00 p.m.-5:00 p.m.

Westchase III

Chairpersons:

Agnes Cheng 鄭振興 University of Houston  
Allen Hung 洪逸光 University of Houston

Speakers:

Shuh Chang 張恕之

3i Net, President and CEO

Bill M. Wooten

CEO of Wooten and Associates

Christopher Wasden

Vice President of Opportunity Creation  
Service Line, Gen3 Partners

Li-Hua Sung 宋麗華

Chairman of Common Daily 民眾日報

President of New Taipei Cable TV

新台北有線電視公司

**Polymer Symposium II**

Saturday, 2:00 p.m.-5:00 p.m.

Salon C

Chairpersons:

Andy Tsou 鄒海雄 ExxonMobil Chemical

Chris Li

“Advanced Polymer Characterization”

Moderators:

E. Hsieh 謝祖蔭

Phillips China

W. Chien 錢懋曾

ExxonMobil Chemical

1. Plenary Lecture: *Polymer Research  
Opportunities by Synchrotron X-rays*

B. Hsiao 蕭守道

SUNY at Stony Brook

2. *Advanced Polyolefin Characterization –  
Molecular Architecture to Solid State  
Microstructure*

A. H. Tsou 鄒海雄

ExxonMobil Chemical

3. *Adhesion between Dissimilar Elastomers*

M. F. Tse 謝敏輔

ExxonMobil Chemical

4. *Real Time Inspection of Catheter Quality  
for Bond and Stent Defects Using Non-  
Contact TAP-NDE*

C. S. Suh

H.-J. Sue 蘇皇宇 Texas A& M University



5. *Characterization of Epoxy Prepreg by DSC and TGA*  
 Liangfeng Sun 孫良鋒  
 Louisiana State University  
 Su-Seng Pang 彭樹成  
 Louisiana State University  
 Arthur M. Sterling, Ioan I. Negulescu, and  
 Michael A. Stubblefield, LSU

6. Panel Discussion: *Advanced Characterization Methods for Polymer Research*

- Synchrotron Scattering.  
Nanocomposites
- Spectroscopic and Microscopic  
Imaging, Catalyst Characterization
- Image Processing, Quantitative  
Morphology

**Medical Science**  
 Saturday, 2:00 p.m. – 5:00 p.m.  
 Briarpark I, II

Chairpersons:

Karl K. Chen, M.D., Ph.D. 陳康元  
 Medical Director of Cancer Center,  
 Citizens Medical Center, Victoria, Texas  
 Chi C. Mao, M.D., Ph.D. 毛志江  
 Medical Director, Select Specialty  
 Hospitals in Houston

*Keep Our Brain Young and Healthy*  
 保持大腦的青春和健康

1. *Introduction*

Karl K. Chen, M.D., Ph.D. 陳康元  
 Medical Director of Cancer Center,  
 Citizens Medical Center, Victoria, Texas

2. *Is There Fountain of Youth? – How About Antioxidant?*

真有青春之泉嗎？抗氧化劑是什麼？

Chi C. Mao, M.D., Ph.D. 毛志江  
 Medical Director of Cancer Center,  
 Citizens Medical Center, Victoria, Texas

Medical Director, Select Specialty  
 Hospitals in Houston

3. *Preventing Stroke and Brain Deterioration*  
 如何預防中風與腦退化  
 Eugene Lai, M.D., Ph.D. 黎志豪  
 Associate Professor of Neurology,  
 Baylor College of Medicine

4. *Keep Healthy Psychologically*  
 大腦與心理健康  
 Tzu C. Lu, M.D., Ph.D. 呂子樵  
 Neuro-Psychiatrist

5. Panel Discussions

Karl K. Chen, M.D., Ph.D. 陳康元  
 Chi C. Mao, M.D., Ph.D. 毛志江  
 Eugene Lai, M.D., Ph.D. 黎志豪  
 Tzu C. Lu, M.D., Ph.D. 呂子樵

**Chinese Literature**  
 Saturday, 2:00 p.m.-5:00 p.m.  
 Salon F, G, H

Chairpersons:

Chia-Wei Foo 姚嘉為 Chevron  
 Tammy Cheng 陳紫薇  
 Chinese Writers Association  
 美南華文寫作協會  
 Sponsored by Metro Bank 首都銀行

**Literature and Politics**

文藝和政治

1. *Vtopia V 托邦*

S. K. Chang 張系國  
 University of Pittsburg

2. *身體·政治*

Ang Lee 李昂 Novelist

**Information Technology II**  
 Saturday, 2:00 p.m.-6:00 p.m.  
 Salon B

Chairpersons:

Jessie Wang 汪乃強 Enron

Chie-Chung Yen 嚴致中 El Paso

1. *Introduction to Microsoft.NET*  
John Canvar-Johnson, Consultant.  
Software Architects, Inc.
2. *Building Corporate Portal using Oracle Tools*  
Sergio Helms, Oracle Corp.

**Mid Life Opportunity**  
Saturday, 2:00 p.m.-5:00 p.m.  
Briarpark III

Chairpersons:

Jennifer Wang 王惠貞  
Grace Chen 陳淑姿  
Richard Chen 陳國沛  
中年期的生涯規劃

1. *Career Change or Early Retirement*  
轉業，創業或提早退休  
(介紹三人創業成功的故事)  
Michael Hong 洪恭儀
2. *Financial Planning for Mid Life*  
資產分配，風險管理，長短期投資等
3. *Retirement Planning*  
401 (K) 如何提取；股權的行使，退休前後的稅務考慮轉業，創業或提早退休

**Distinguished Achievement Award  
Banquet and Entertainment  
At Chinese Culture Center**  
Saturday, May 26, 2001  
6:00 p.m.-10:00 p.m.

AACP Distinguished Achievement Award  
Recipient: Dr. Paul Chu 朱經武

Entertainment Coordinators:  
Alice Chen 譚秋晴  
Steve Teng 鄧子鑫

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 CONFERENCE REGISTRATION FORM  
 MAY 25 – 26, 2001  
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Name	Last	First	(Chinese Name)
Title		Company	
Address			
City		State/Country	Zip
Telephone	Fax	E-Mail	

Sessions I plan to attend:

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 Information Technology \_\_\_\_\_ Polymer Symposium \_\_\_\_\_ E-Commerce Marketing Theory and Practice \_\_\_\_\_ Medical Science \_\_\_\_\_  
 Chinese Literature \_\_\_\_\_ Overseas Chinese Education \_\_\_\_\_ Personal Financial Planning \_\_\_\_\_ Commercialization of  
 Innovation \_\_\_\_\_

**Registration Fees.** (Please check all appropriate fees and write the total at the bottom.)

	Pre-registration before 5/15/2001	On Site
Package for Friday, May 25, 2001 (includes lunch, Sessions and Career Fair Admission)		
Friday, May 25, 2001 Diversity Summit	<input type="checkbox"/> \$75	<input type="checkbox"/> \$85
Package for Saturday, May 26, 2001		
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Saturday, May 26, 2001 Sessions Only	<input type="checkbox"/> \$ 5	<input type="checkbox"/> \$ 5
Saturday, May 26, 2001 Dinner and Entertainment	<input type="checkbox"/> \$30	<input type="checkbox"/> \$ 35
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## 附件二

台灣電信發展之現況與展望講稿

**Telecom Status Quo and Prospects  
in Taiwan**

*Dr. Jen-Ter Chien*

*Director General*

*Directorate General of Telecommunications*

*May 26, 2001*

# **Contents**

- I. Background of Telecom Liberalization*
- II. Implementation Strategy*
- III. Liberalization Process and Status Quo*
- IV. Benefits of Liberalization*
- V. Deployment of Telecom Infrastructure*
- VI. Integration of Administration over  
Telecommunication, Information, and  
Broadcasting*
- VII. Review of Telecom Liberalization*
- VIII. Conclusion*



# I. Background of Telecom Liberalization (1)

## ■ Accommodating to Global Trend

- *Improving operating efficiency and service quality by liberalization and privatization*

## ■ Establishment of Regulatory System

- *July 1996:*
  - *Three Telecommunications Laws passed*
  - *DGT restructured*
  - *CHT established*

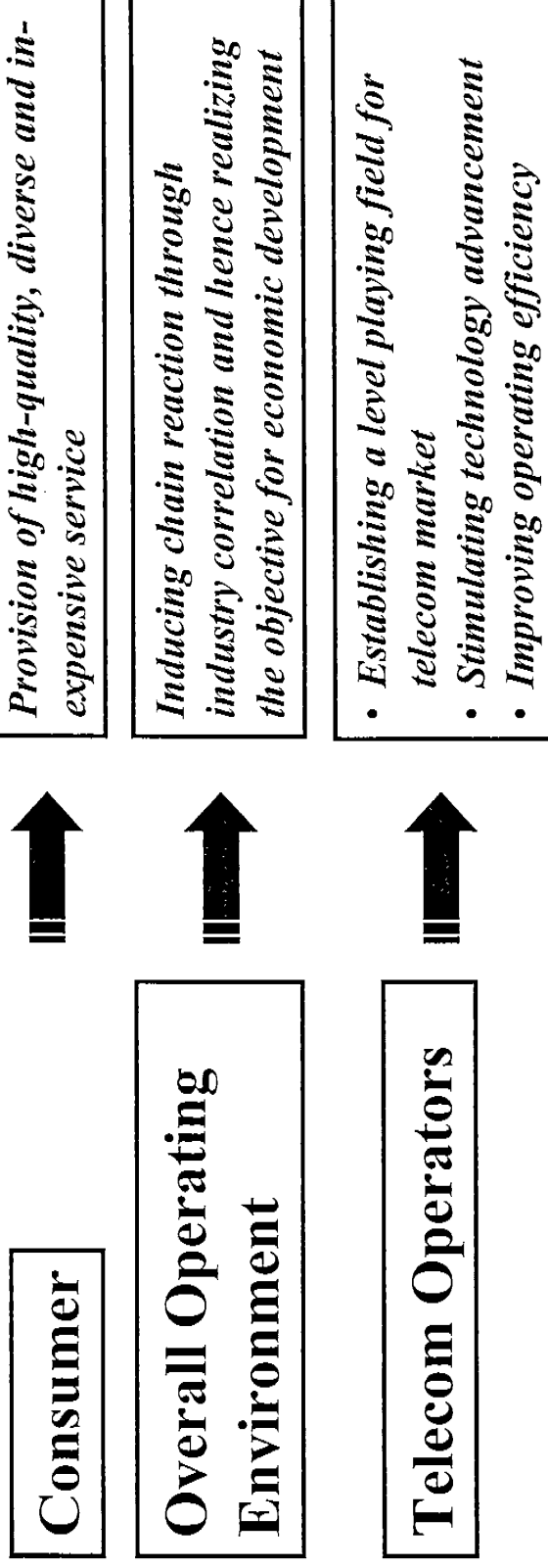
# **I. Background of Telecom Liberalization (2)**

- *DGT is responsible for development and implementation of telecom policy as well as planning for telecom liberalization, so as to improve the operating efficiency and service quality*
- *Chunghwa Telecom, in charge of the operation of telecom business, is releasing its government shares to realize privatization.*

# I. Background of Telecom Liberalization (3)

## ■ Policy Objectives

- *Initial Stage: breaking up monopoly, establishing fair competition mechanism, and promoting infrastructure deployment*
- *Current Stage: accelerating deployment of broadband network and realizing the goal for information society*



# **I. Background of Telecom Liberalization (4)**

- **Regulatory Principles**
  - *Any telecom policy shall not impede the development and implementation of new technology.*
  - *A market mechanism is adopted to improve operating efficiency and service quality and to lower down the telecom tariffs .*
  - *New technology should be introduced to provide diversified telecom services to trigger the overall development of domestic telecom industry.*

# II. Development Strategy

## — a Progressive and Phased Approach

Phase I  
(1996~1998)

- ☛ Three Telecommunications Laws passed  
DGT restructured & CHT established  
Mobile and satellite communication services opened

Phase II  
(1999~2000)

- ☛ Integrated fixed network, international submarine cable leased-circuit, local and domestic long-distance land cable leased-circuit services opened

Phase III  
(July 2001~)

- ☛ Resale and 3G communications services to be opened at this stage, and the full liberalization of telecom market hence to be realized

## **II. Development Strategy**

**— Accelerating bandwidth building and efficient utilization**

### **■ Physical network → Building bandwidth extensively**

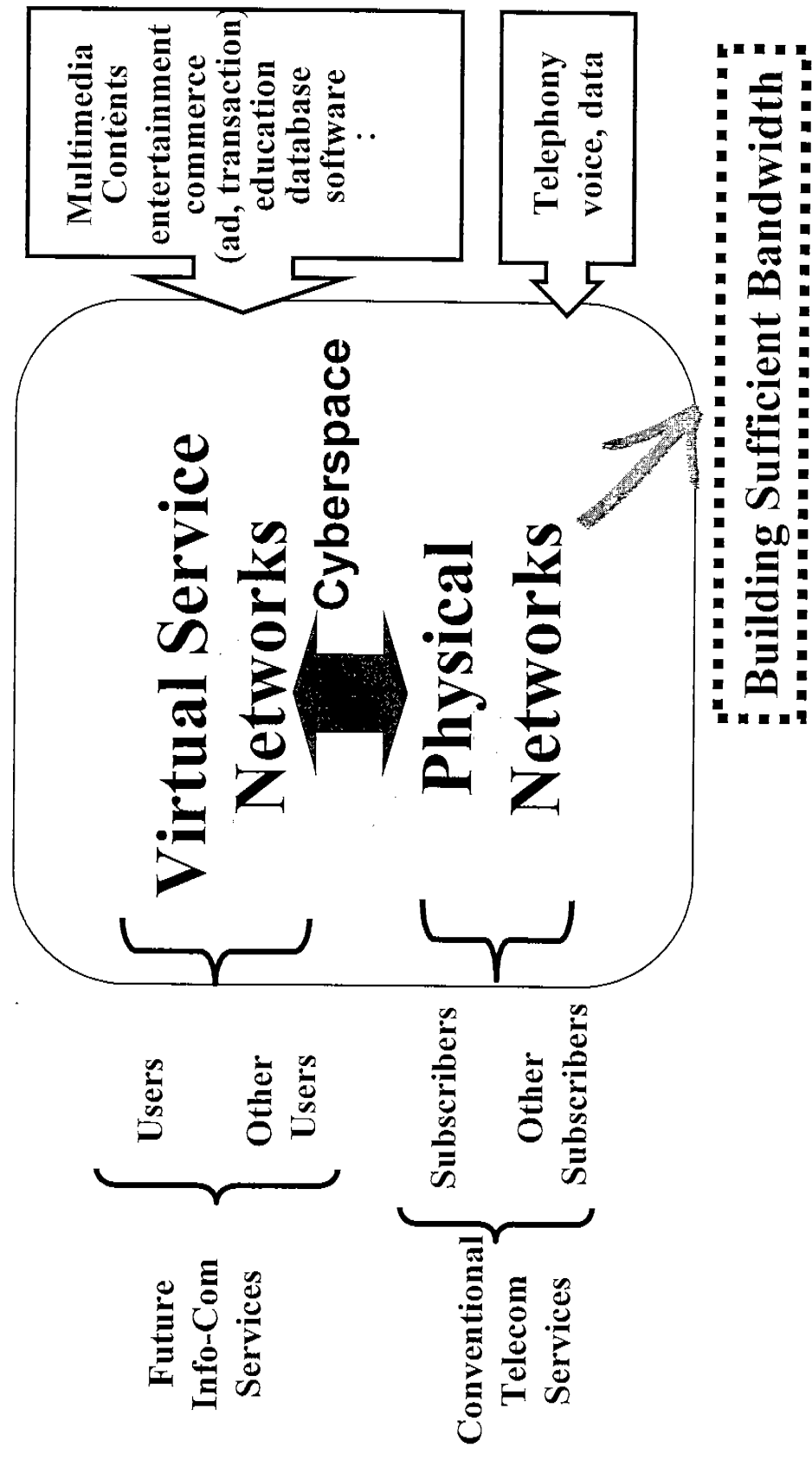
- *Encourage operators to build out broadband high-speed telecom networks*
- *Except for scarce resources which are still under regulation, unnecessary restrictions to be eliminated as soon as possible*

### **■ Virtual network → Effective utilization of bandwidth**

- *Free and open policy*
- *Innovation and value-added services are encouraged to provide diversified services*

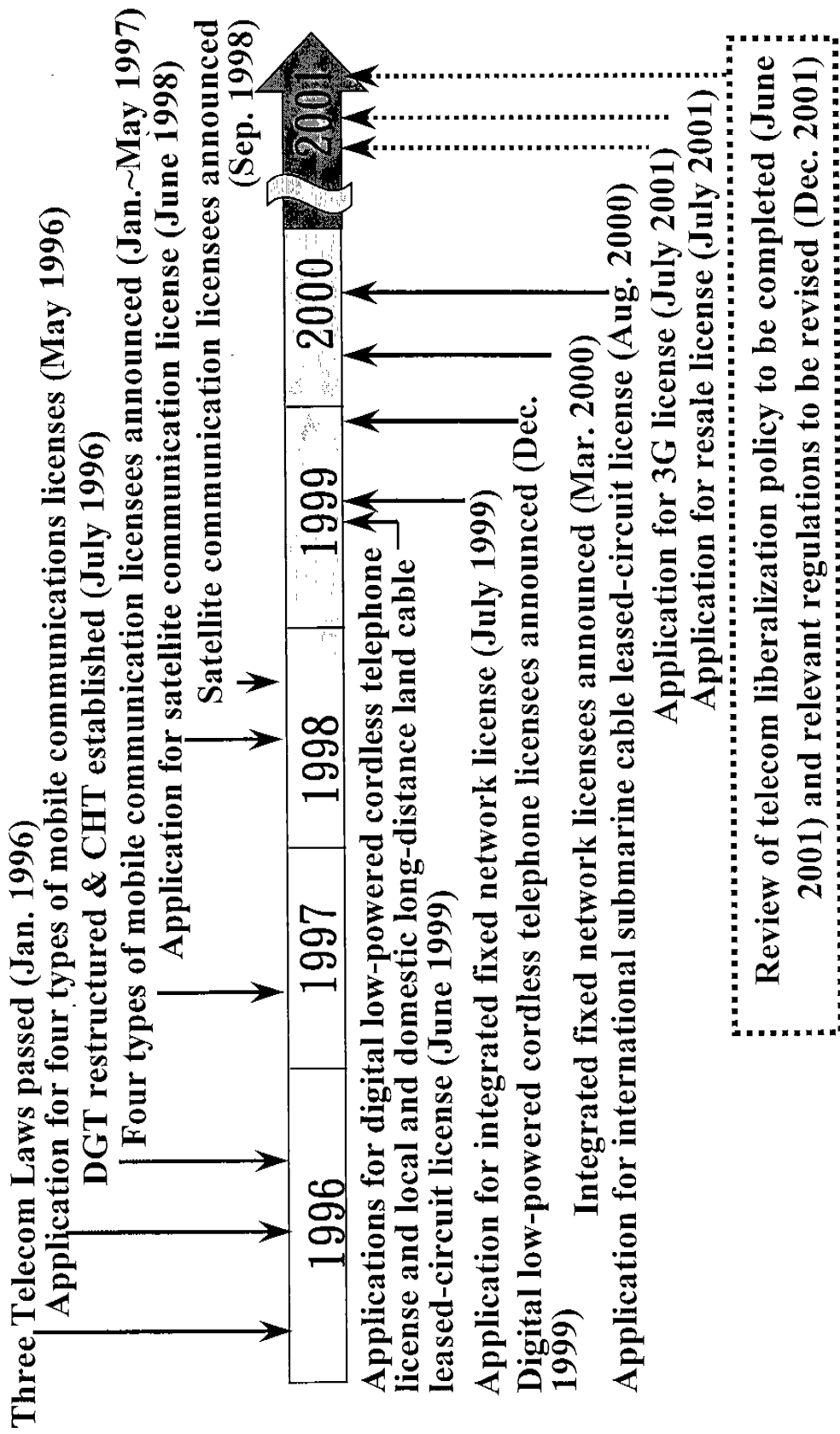
# II. Development Strategy

## — Framework of Telecom Networks



# III. Liberalization Process & Status

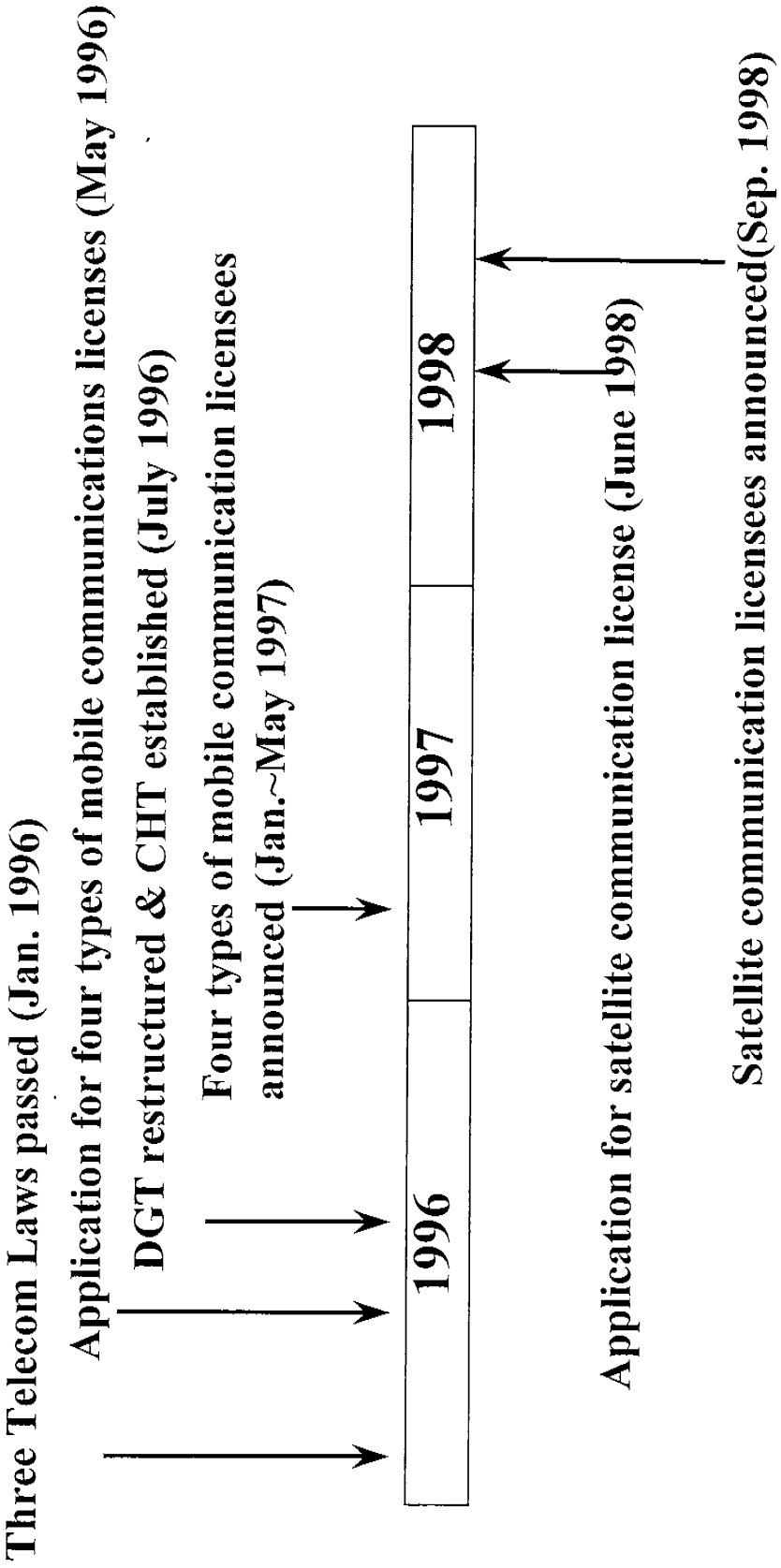
## Quo — Telecom Liberalization Process





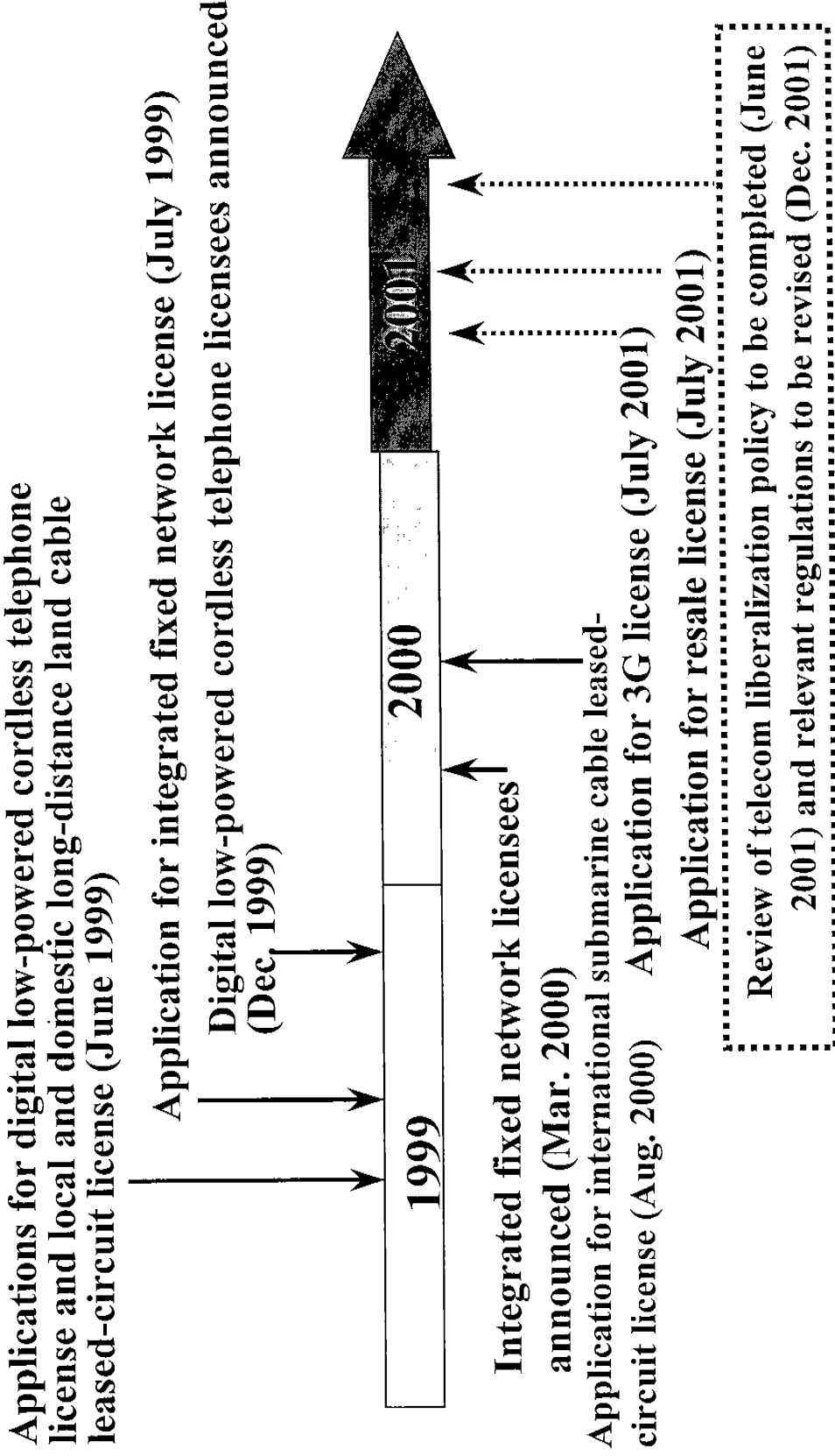
# I. Liberalization Process & Status Quo

## — Telecom Liberalization Process(1)



# I. Liberalization Process & Status Quo

## — Telecom Liberalization Process(2)



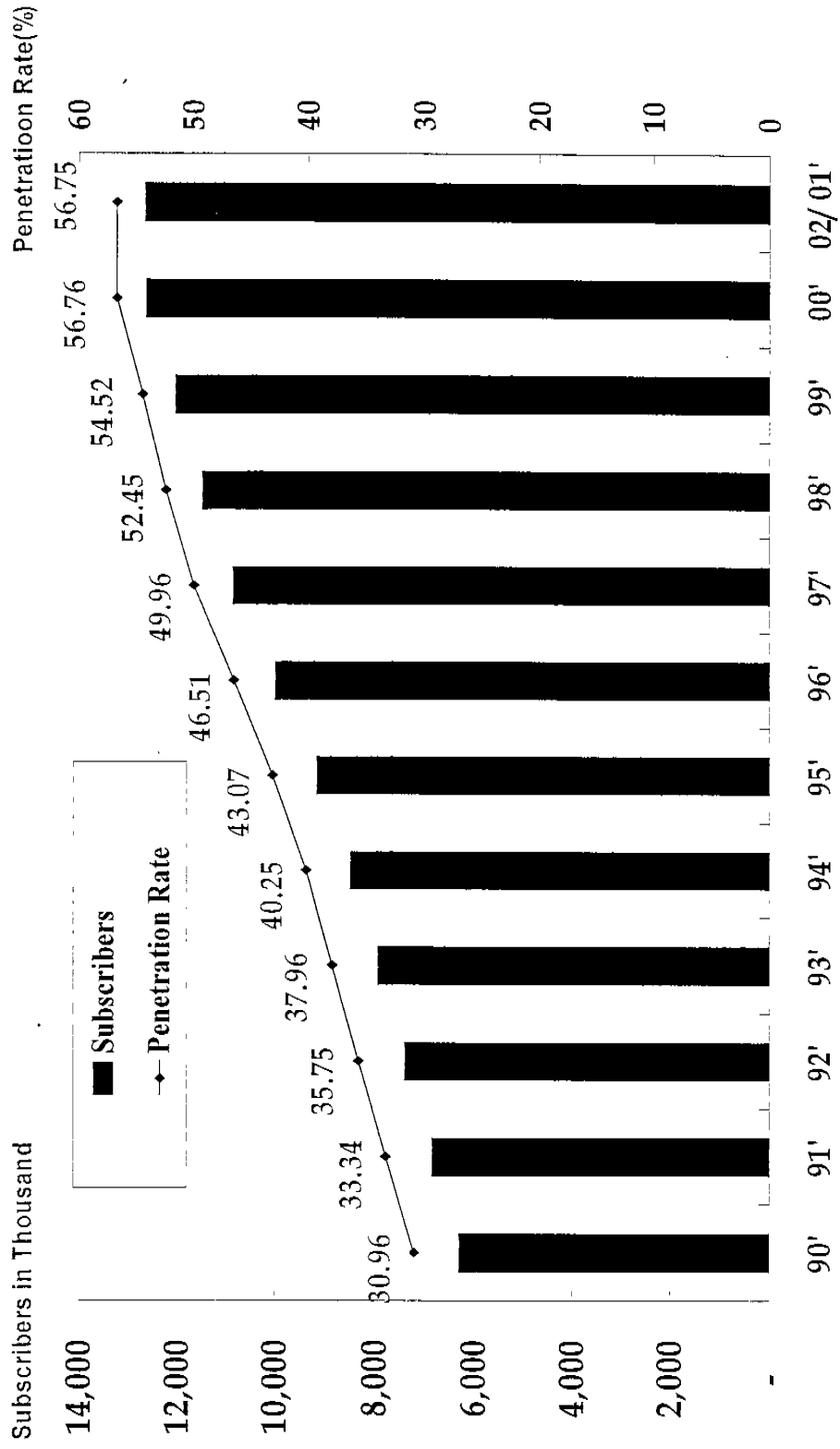
## III. Liberalization Process & Status Quo — Status Quo of Telecom Market

Item	Licensing Time	License	Number of Establishment Permits / Number of operators
1	15/01/97	Mobile Phone Service	8 / after merger, 6 operators left
2	05/02/97	Radio Paging Service	8 / after merger, 6 operators left
3	31/03/97	Mobile Data Service	8 / after merger, 6 operators left
4	24/05/97	Trunked Radio Service	20 / after merger, 13 operators left, 2 undertakings still in preparation
5	19/12/98	Fixed Satellite Communication Service	13 / 7 with license, 6 still in preparation
6	19/12/98	Mobile Satellite Communication Service	3 / 1 with license, 2 still in preparation
7	23/06/99	Local and Domestic Long-Distance Land Leased-Circuit Service	33 / 10 with license, 23 still in preparation
8	23/11/99	1900MHz Digital Low-Powered Cordless Telephone Service	2 / 2 still in preparation
9	21/03/00	Integrated Fixed Network Service	3 / 3 operators
10	07/00	International Submarine Leased-Circuit Service	5 / 3 still in preparation
11	07/01 (estimated)	3G Mobile Communication Service	
12	07/01 (estimated)	International Simple Resale (ISR) Service	

☆ *Though our telecom liberalization move starts late, the pace has been geared up since DGT's reorganization in July 1996. Currently, mobile communication, satellite communication, fixed-line, international submarine and local/long-distance land cable leased-circuit services have been all open to competition. The extent of liberalization is similar to that of advanced countries now.*

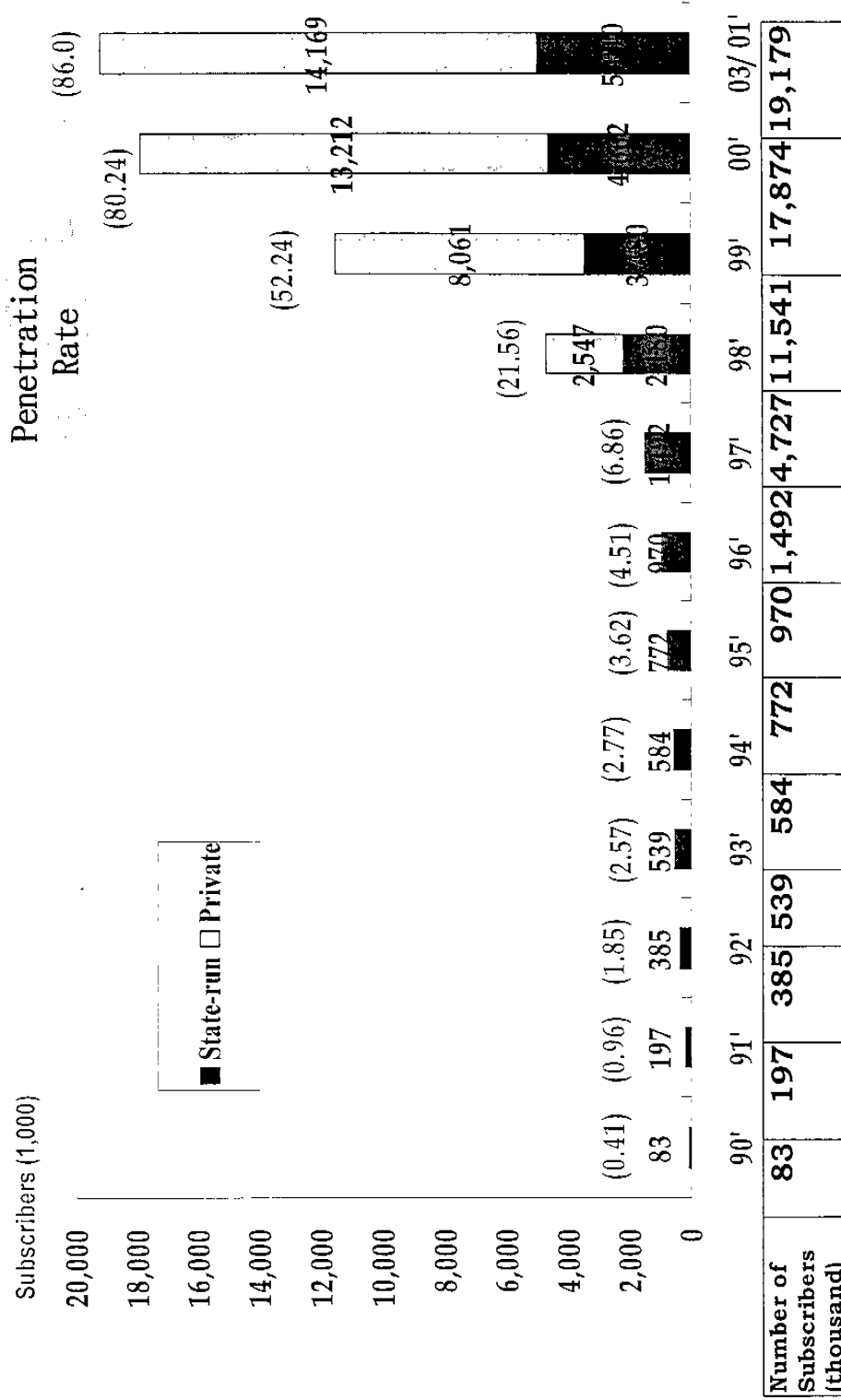
# IV. Benefits of Liberalization

## — Local Telephony



# IV. Benefits of Liberalization

## — Mobile Phone



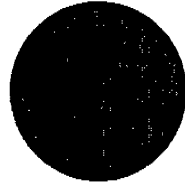
# IV. Benefits of Liberalization

## — Growth of Mobile Phone Subscribers

- ◆ Over the past three years, penetration rate grew about **13 times**

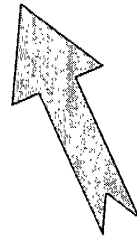


- ◆ Market share:

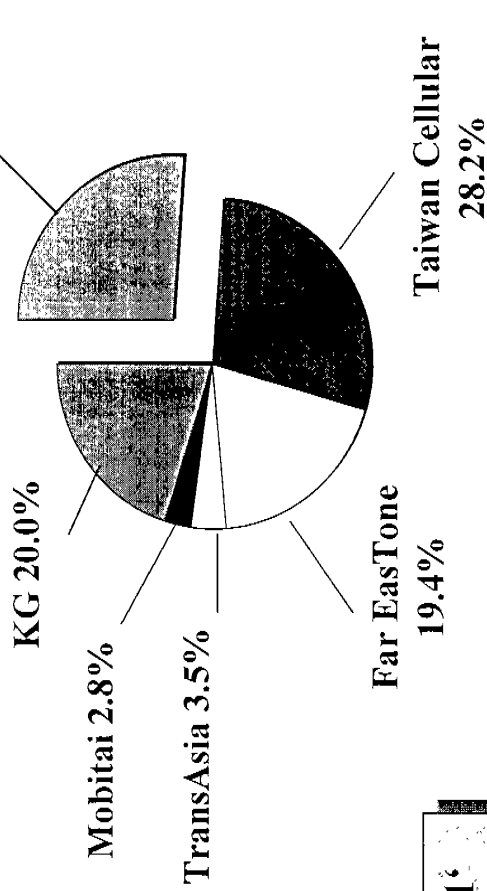


12/97'

1.49 million subscribers with penetration rate of 6.88%



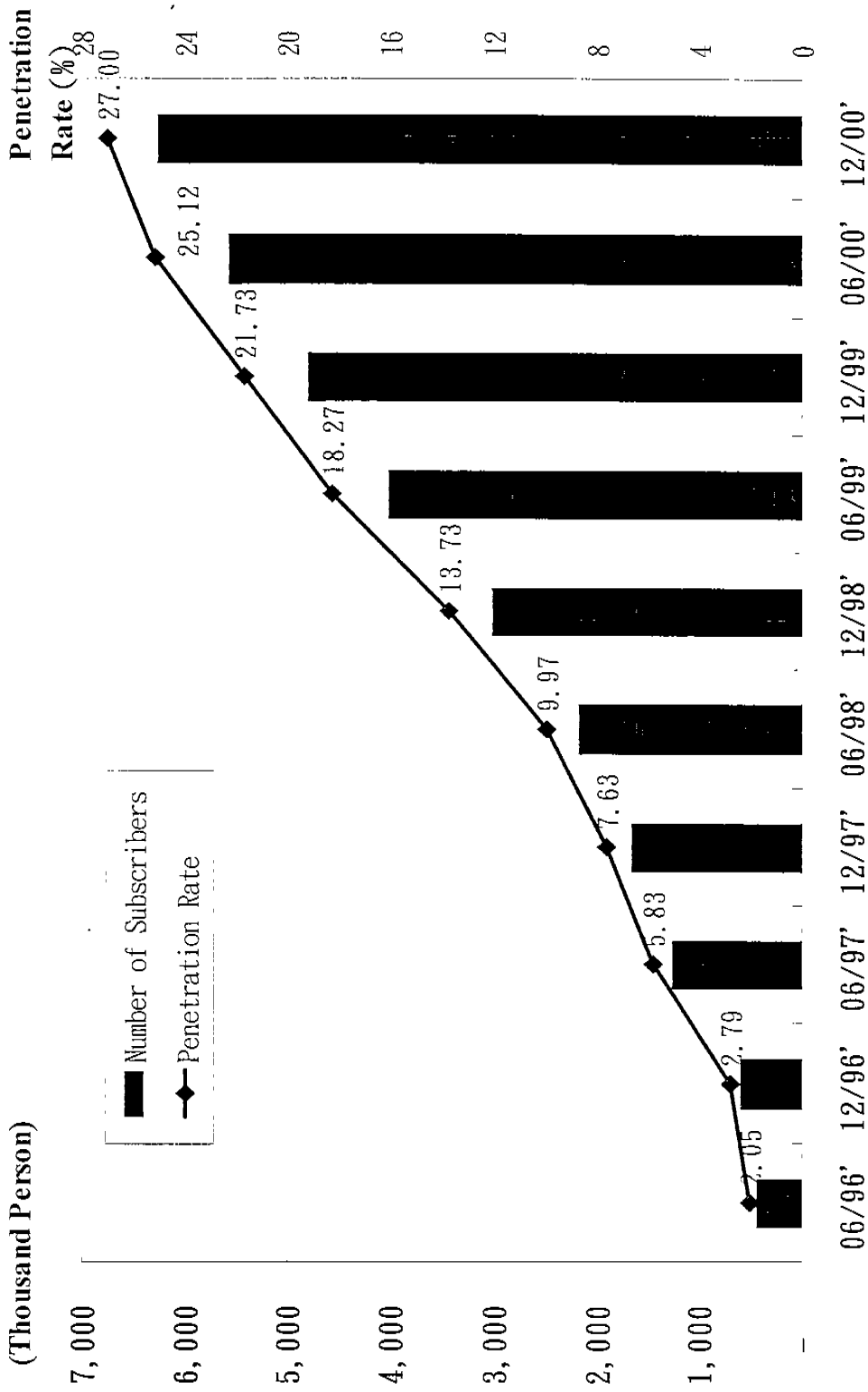
04/01'



19.18 million subscribers with penetration rate of 86%

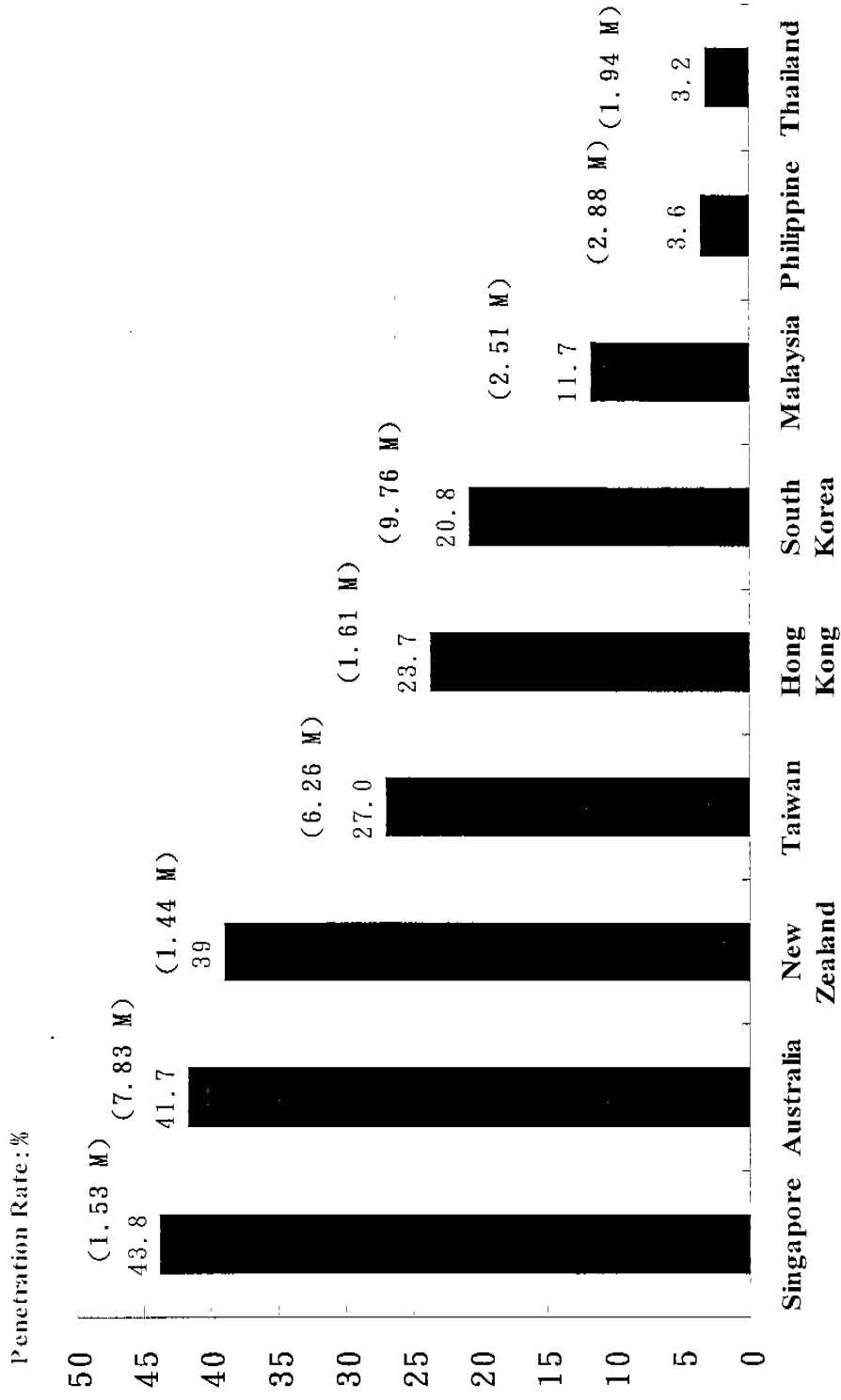
# IV. Benefits of Liberalization

## — Internet Subscribers and Penetration Rate



# IV. Benefits of Liberalization

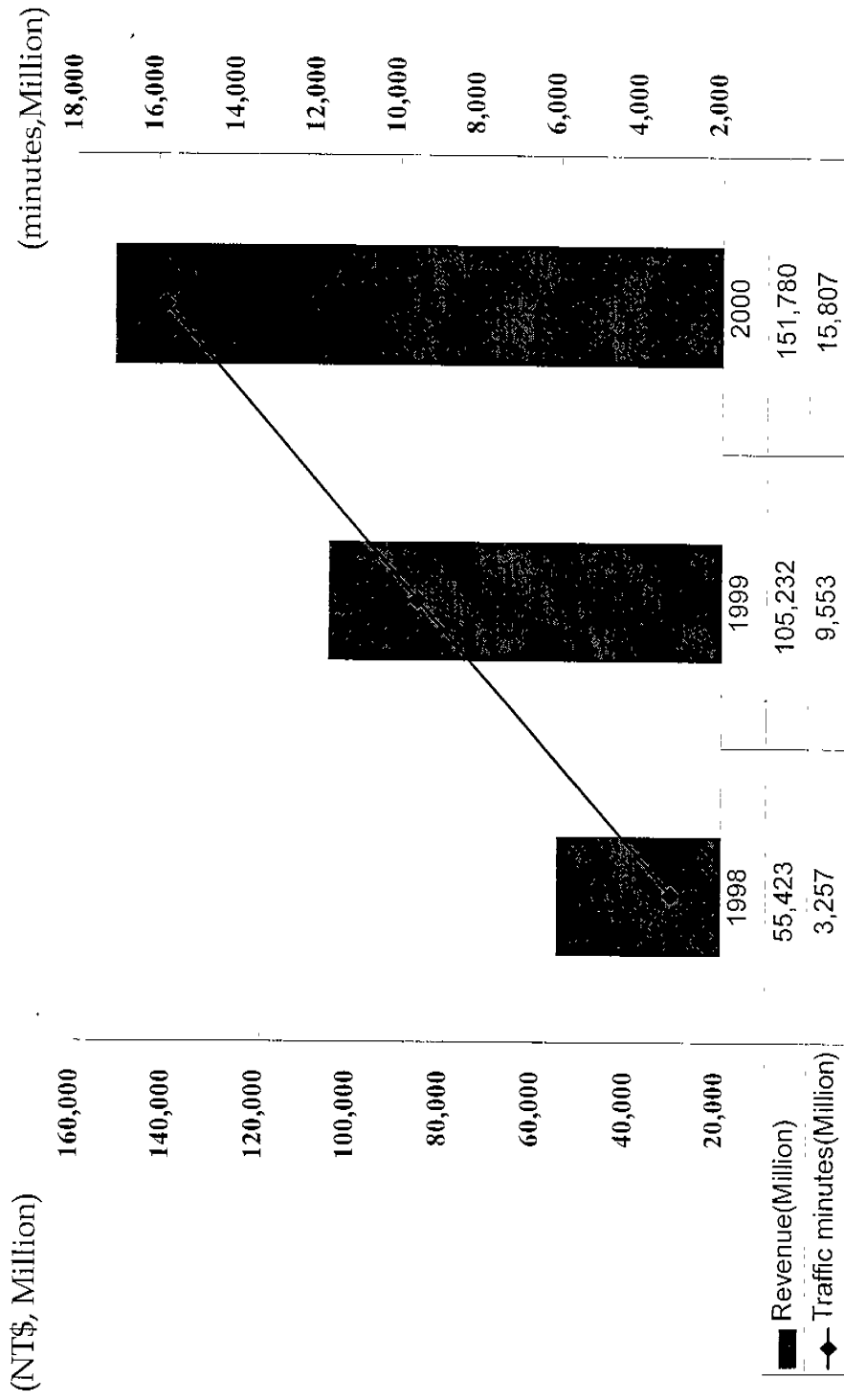
## — Internet Subscribers and Penetration Ranking in Asia



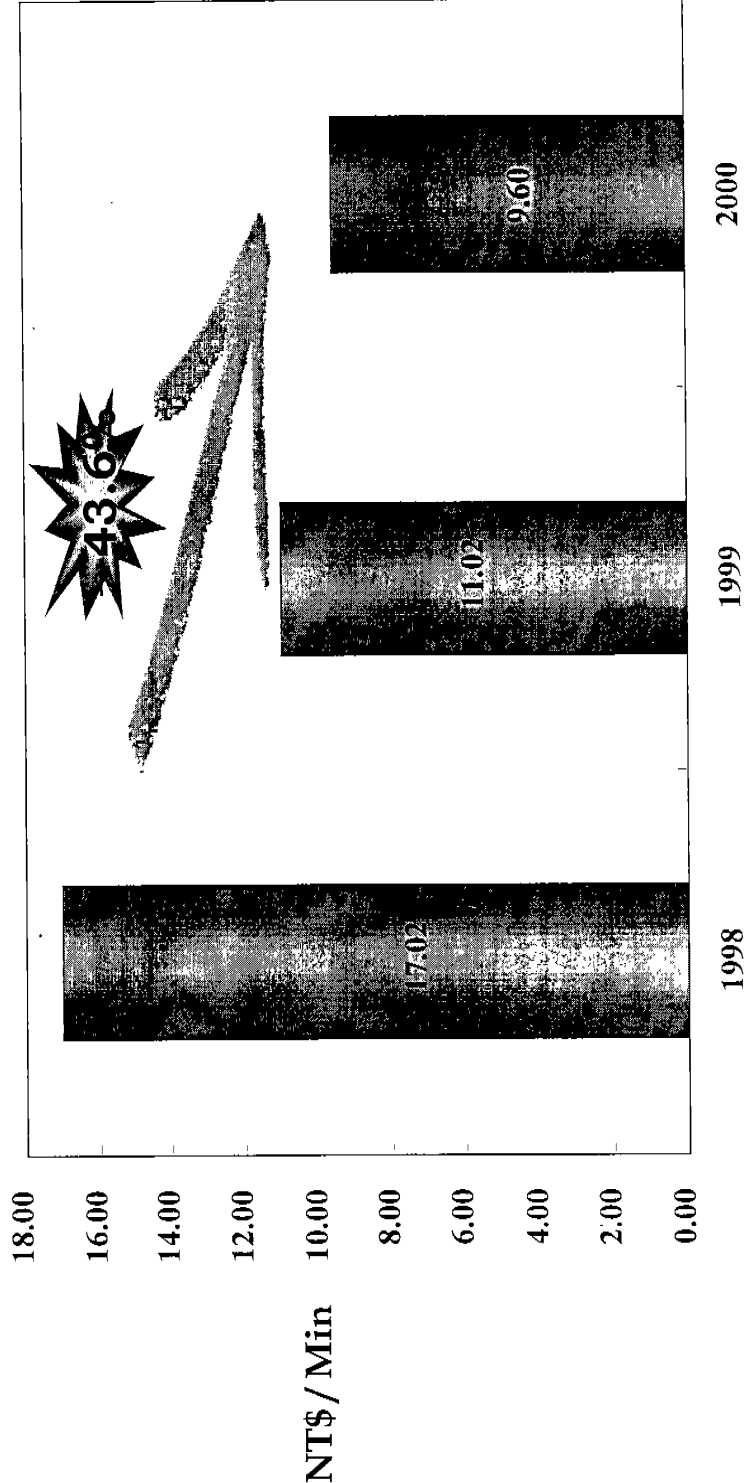


# IV. Benefits of Liberalization

## — Carrier Perspective



# IV. Benefits of Liberalization— Mobile phone Tariff drops dramatically



# IV. Benefits of Liberalization

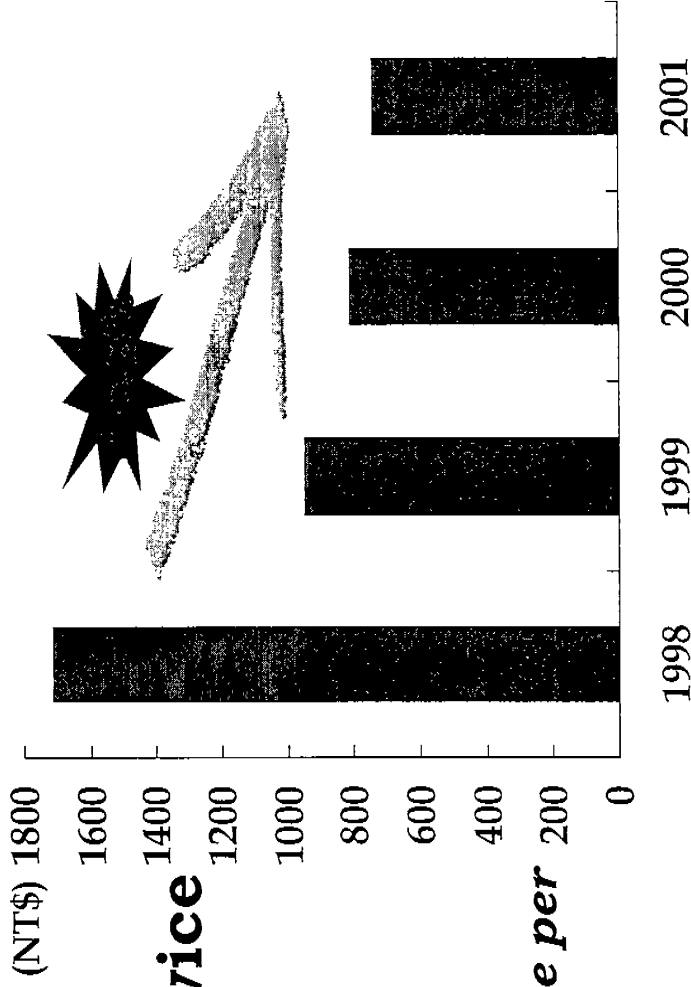
## — Consumer Perspective

### ■ Expenditure on

### Mobile Phone Service

- 1998 / NT\$1,712
- 1999 / NT\$949
- 2000 / NT\$811
- 2001 / NT\$739

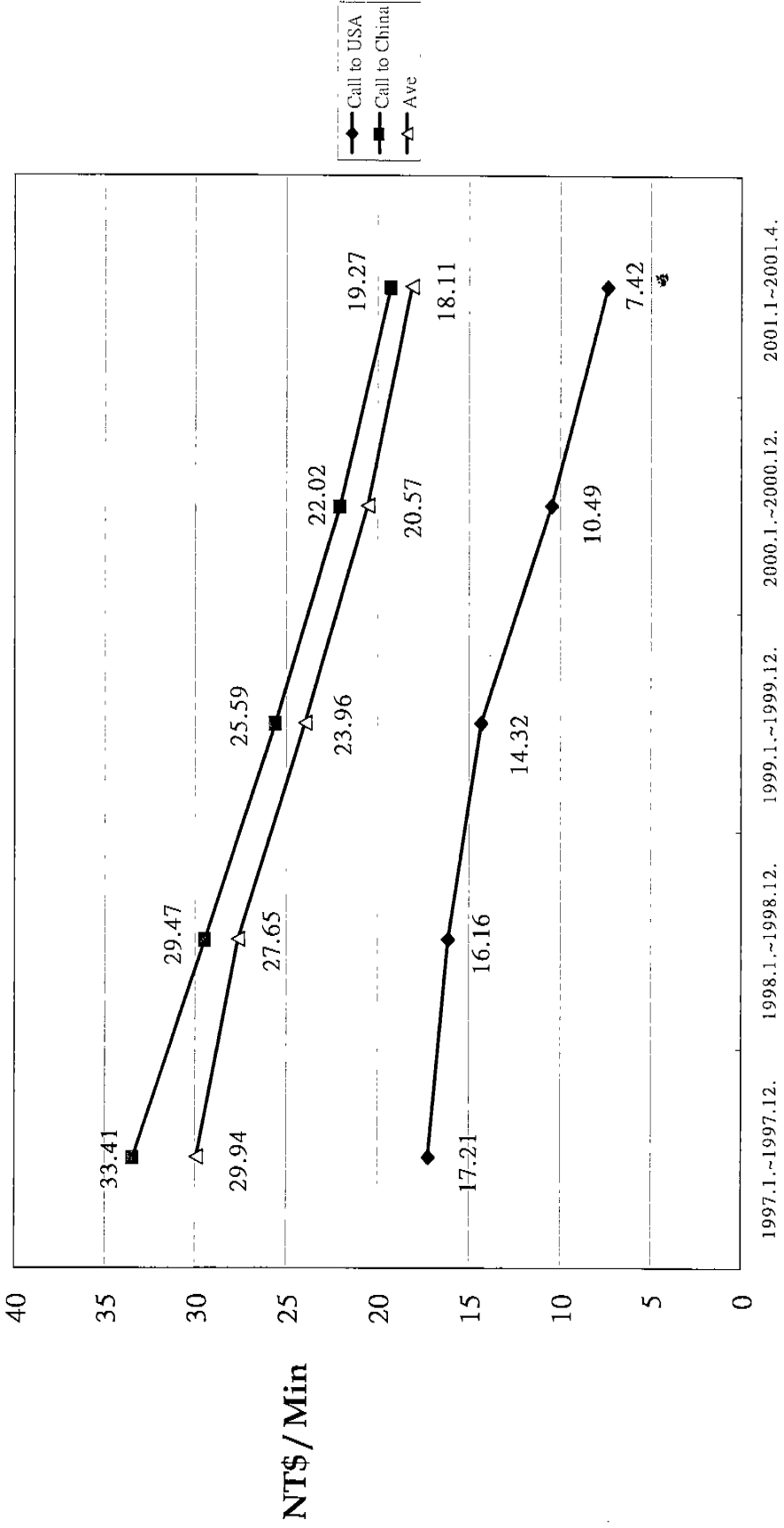
*Average monthly charge per user*



*During 1998~2000, a total of NT\$4.815 billion of connection fee and NT\$16.372 billion of monthly rental fee are saved.*

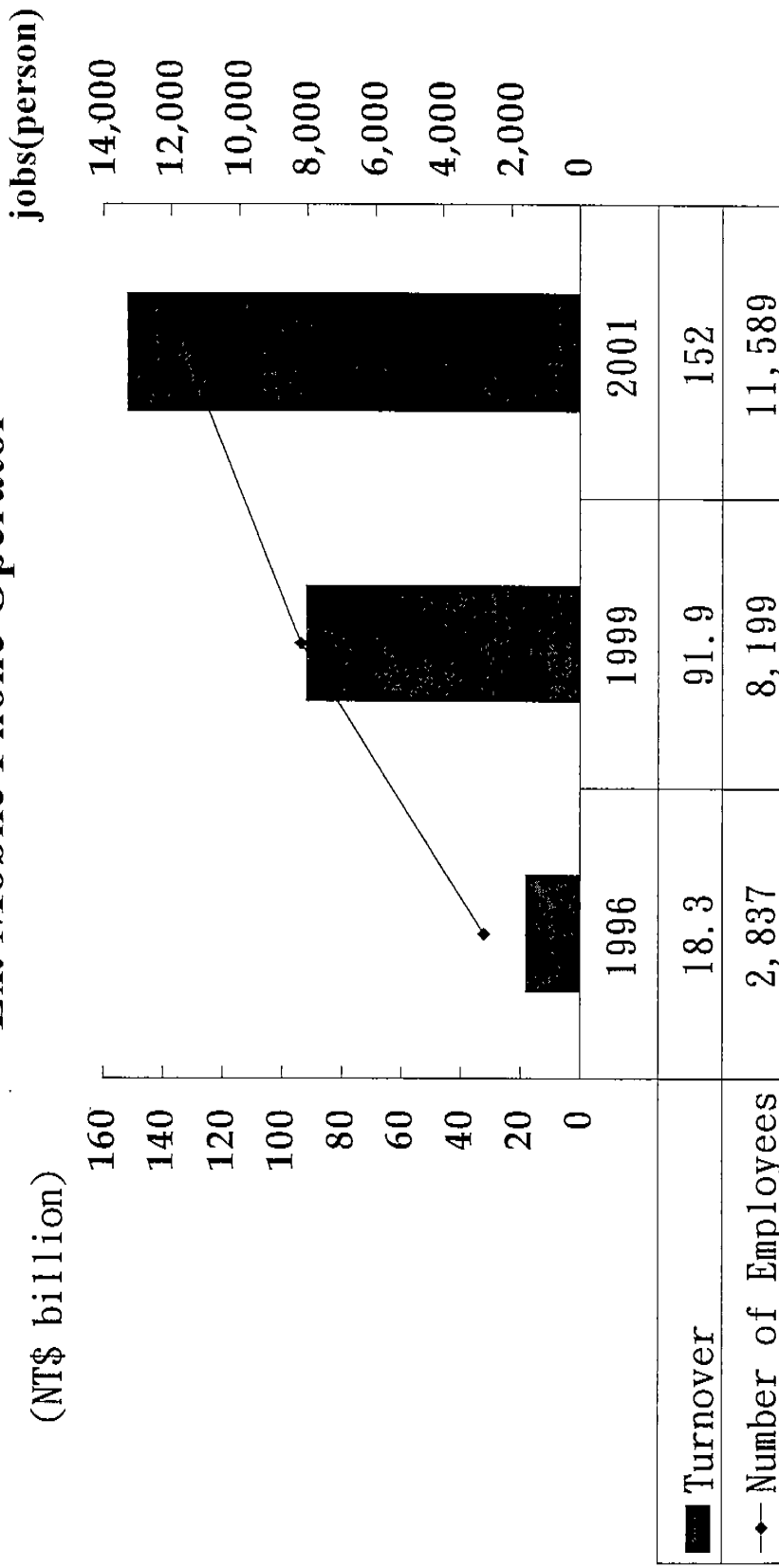
# IV. Benefits of Liberalization

— Decrease of Communication Fee for International Telephone

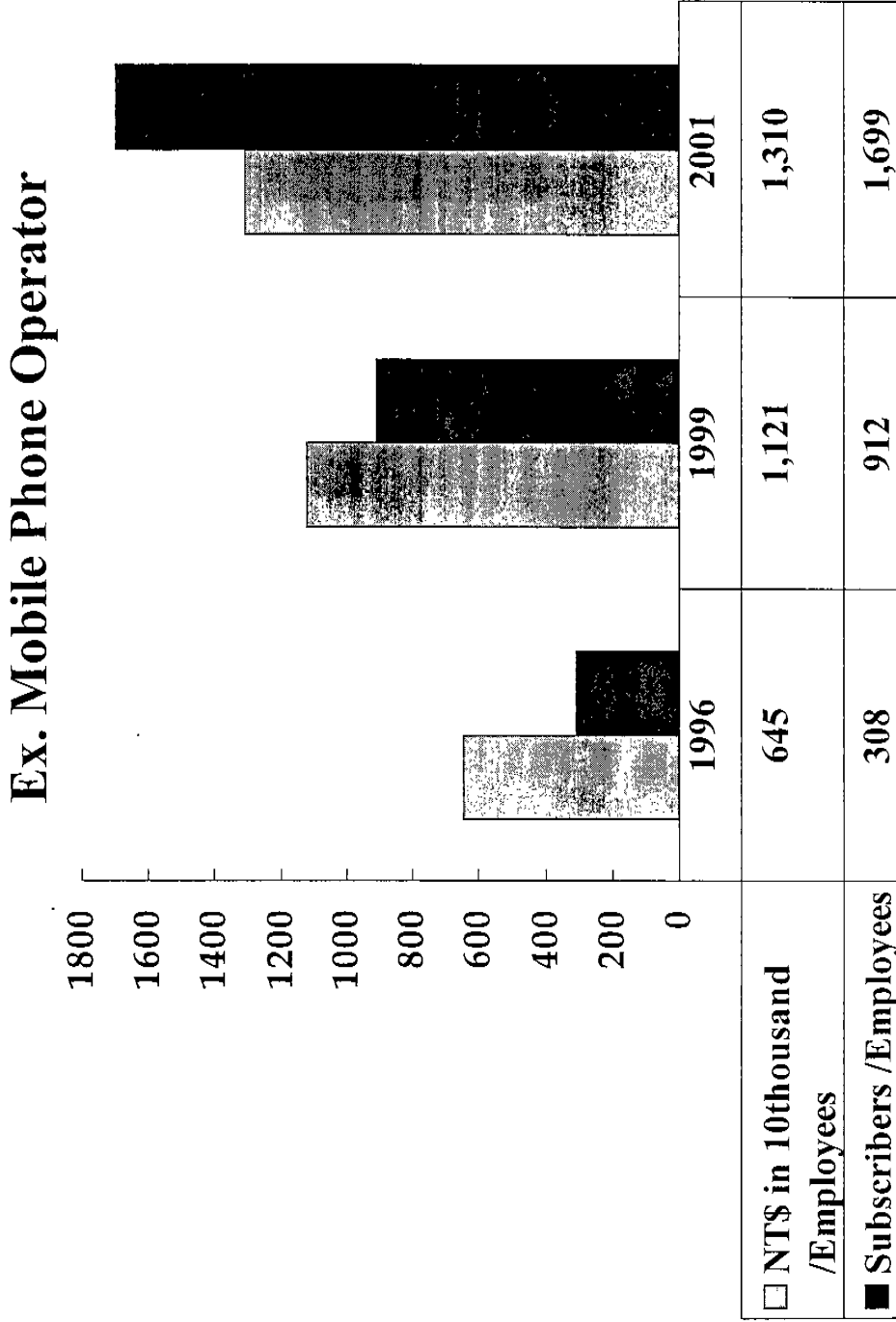


# IV. Benefits of Liberalization — Operator Perspective : Increase of Turnover & Jobs

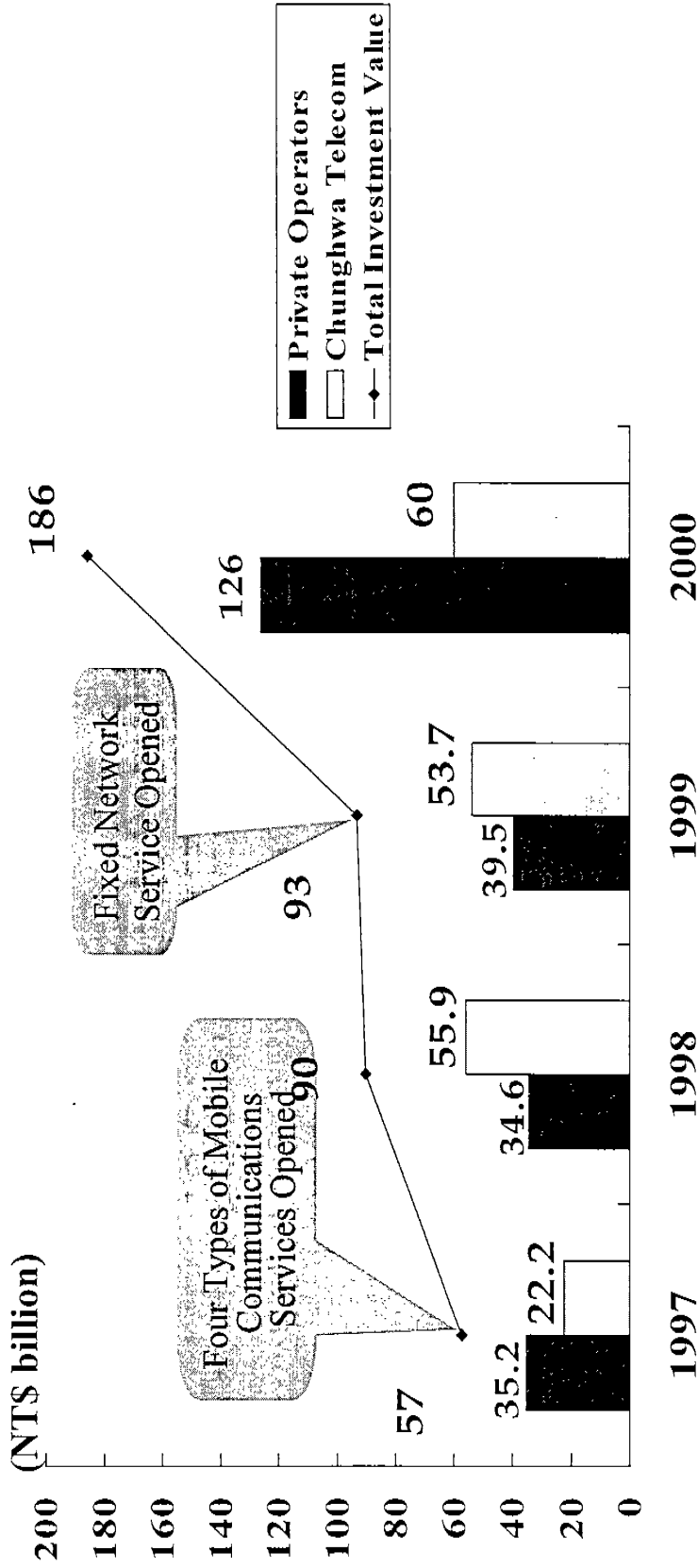
Ex. Mobile Phone Operator



# IV. Benefits of Liberalization — Operator Perspective : Improvement of Operating Efficiency



# IV. Benefits of Liberalization — Increased Investment (1)



	1997	1998	1999	2000
Investment of Telecom Operators over Total Investment from Private Sector	3.51%	2.97%	2.9%	8.3%

## **IV. Benefits of Liberalization**

### **— Increased Investment (2)**

#### **■ 1997~2000 (Since mobile communication service opened)**

- ⇒ *Average annual fixed investment by telecom operators: NT\$102.98 billion*
- ⇒ *Investment of NT\$1 in telecom sector will increase NT\$0.53 in GDP and NT\$2.89 in production value.*
- ⇒ *In average, it creates NT\$54.76 billion GDP/NT\$297.85 billion production value and 66,996 jobs annually.*

#### **■ 2001~2005(Estimated as of telecom market to be fully liberalized)**

- ⇒ *Average annual fixed investment by telecom operators: NT\$118.32 billion*
- ⇒ *In average, it creates NT\$63.1 billion GDP/NT\$341.79 billion production value and 77,316 jobs annually.*



## **V. Deployment of Telecom Infrastructure (1)**

- Digitalization of switching network and fiber-optic in transmission network reach 100%.
- Broadband or Fiber-optic technology in the Local Loop
  - *The Chunghwa Telecom has increased the bandwidth of local loop by xDSL. At the end of 2000, the ADSL subscribers reached 120,000 and covered 97% households in Taiwan.*
  - *CATV operators provide the broadband Internet access service by cable modem. At the end of 2000, their subscribers reached 100,000.*

## V. Deployment of Telecom Infrastructure (2)

### ■ Domestic Backbone Network

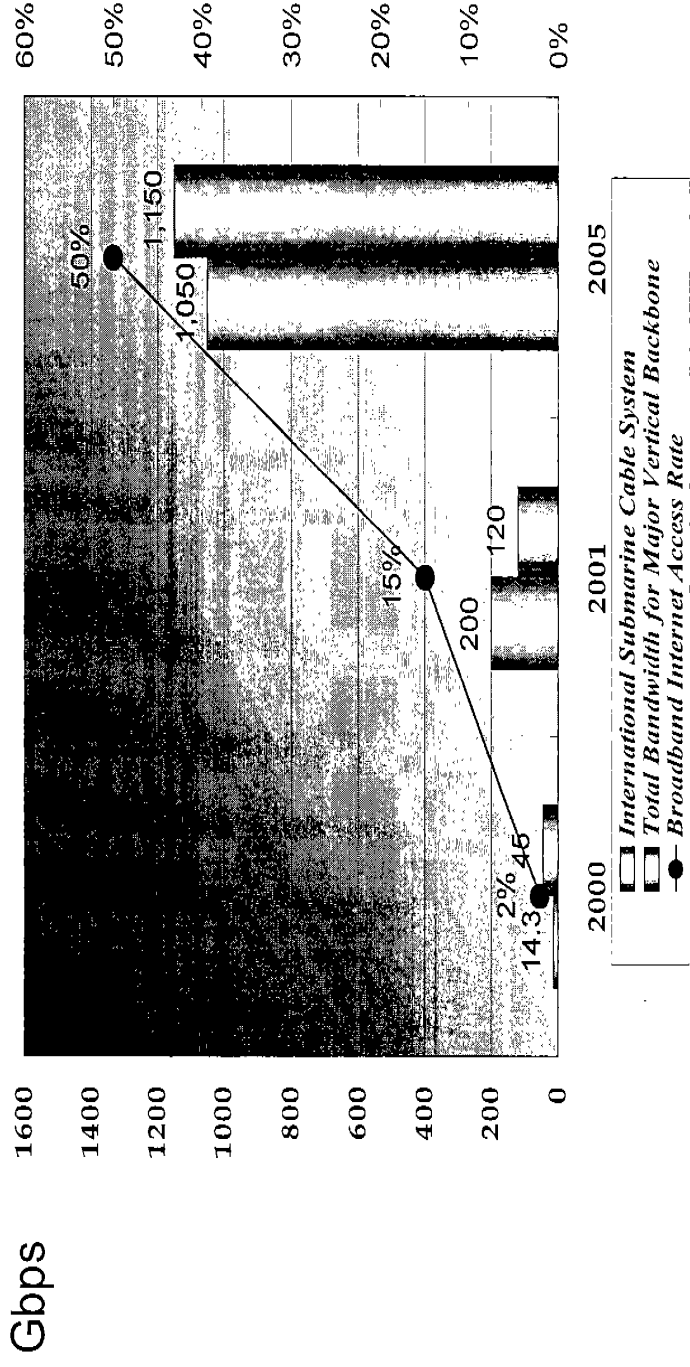
	2000	2001	2005
Chunghwa Telecom	45 Gbps	80 Gbps	1000 Gbps
Private Fixed-line Operators	-----	40 Gbps	150 Gbps
Bandwidth in Total	45 Gbps	120 Gbps	1150 Gbps

# V. Deployment of Telecom Infrastructure (3)

## ■ International Backbone Network

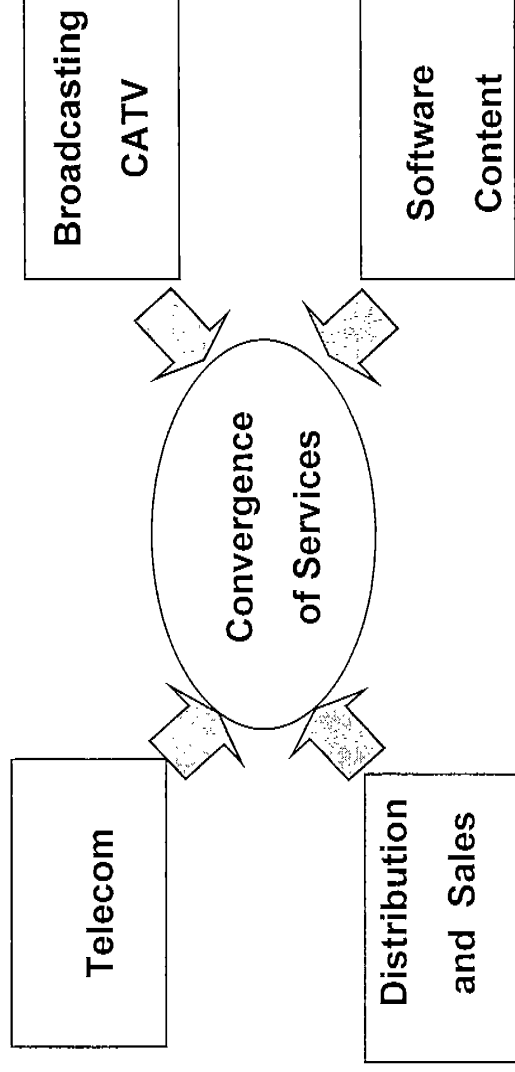
	2000	2001	2005
Chunghwa Telecom	14.3 Gbps	15 Gbps	75 Gbps
Private Fixed-line Operators	---	11.7 Gbps	75 Gbps
Submarine Cable Operator	---	180Gbps	900 Gbps
Bandwidth in Total	14.3Gbps	200 Gbps	1050 Gbps

# V. Deployment of Telecom Infrastructure (4)



- By the end of 2001, the total international submarine bandwidth will reach 200Gbps. The Internet access rate will be 15% with the bandwidth of 1.5Mbps.
- By the end of 2005, the total international submarine bandwidth will reach 1,050 Gbps. The Internet access rate is proposed to top 50% at 6Mbps.

# VI. Integration of Administration over Telecommunication, Information, and Broadcasting



The telecommunication, information, and broadcasting industries are converging into an info-communication industry.

## **VII. Review of Telecom Liberalization Policy (1)**

- *In the future, liberalization, internalization and globalization will prevail in the telecom market. The convergence of technologies and services will change dramatically the environment for traditional telecommunications and broadcasting industries. Therefore, only by constant review of policy objectives and implementation of market open-up and regulatory reform, our telecom industry can remain the advantages in the international competitive environment.*

## **VII. Review of Telecom Liberalization Policy (2)**

- *The MOTC established a Task Force for Telecom Liberalization Review early this year to review the status quo of telecom liberalization and market competition, reconsider the fitness of relevant regulations and regulatory measures, and develop the new telecom liberalization policy for the next stage.*

## **VII. Review of Telecom Liberalization Policy (3)**

### **■ Operational Manner**

- *The Task Force is set up by MOTC & DGT with many experts and scholars invited and public comments collected from the web site so as to discuss relevant issues on telecom industry and liberalization policy. The Task Force will take the public comments into discussion and work out a policy proposal.*



## **VII. Review of Telecom Liberalization Policy (4)**

### **■ Expected Turnout**

- *The proposal is to be completed by the end of July 2001 and then relevant regulations will be amended or developed accordingly.*
- *Facilities-based competition and service-based competition should be balanced.*

## **VII. Review of Telecom Liberalization Policy (5)**

### **■ Policy Objectives for the Next Stage Telecom Liberalization**

- 1. Build up a world-class competitive environment to compete with international market and develop Taiwan into a Telecom Hub in the Asia-Pacific Region*
- 2. Prevail in telecom services and bridge digital divide*
- 3. Stimulate overall competition and the provision of innovative and high-quality services in the telecom market*
- 4. Facilitate the development of relevant industries and enhance the public interests*

## **VII. Review of Telecom Liberalization Policy (6)**

### **■ Regulatory Principles**

#### **1. Market-oriented mechanism:**

- *Taking free competition as a principle and regulation as an exception*
- *Adoption of necessary regulation subject to protection of consumer rights and prevention of anti-competitive practice*

#### **2. Open and reasonable decision-making process:**

- *Any decision, instruction, or adoption of regulatory measure shall conduct the due process for public comments to prevent operators from unjustified discrimination.*

# **VII. Review of Telecom Liberalization Policy (7)**

## **■ Regulatory Principles**

### **3. Technology neutral:**

- *No specific technology is designated.*
- *The same extent of regulation is applied to all of the same services.*

### **4. Mechanism for periodical review:**

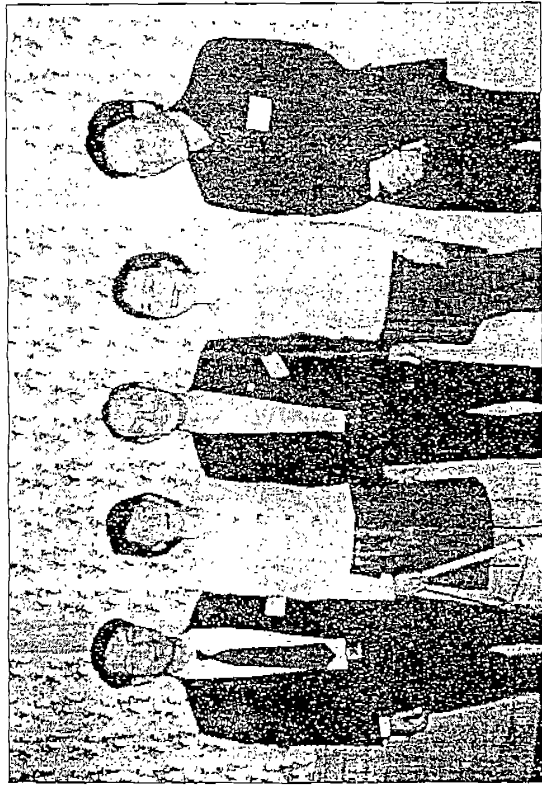
- *Review of changes of market environment and fitness of regulatory measures should be conducted periodically. While the market can function properly, the measures should be eliminated right away.*

## **VIII. Conclusion**

- Traditional economy emphasizes capital- and labor- based competition
- Digital economy stresses quality-, speed-, service- and value- based competition.

## 附件三

演講後媒體的報導兩篇



(左起) 中工會會長李鴻文、科學中心主任及中工會組長楊樂靜博士、簡仁德局長、

【本報訊】台灣電信業務，自三年前開始放寬之後，行動電話與網路網路的使用數量激增，行動電話的普及率，自三年前的百分之三十三增加到百分之五十七。這項成就已超越芬蘭，使台灣成為全球行動電話普及率最高的地區。電信局長簡仁德博士在五月廿四日與中工會選務分會

座談時，提出這項報告：電信業務自由化的結果，使原本壟斷的電信事業競爭的結束，使原本壟斷的電信事業單位的必須調查看通優惠的對策，以對民營公司的挑戰，自由競爭的結果，使行動電話普及率不敵歐洲、澳洲和紐西蘭，國際間的競爭也逐年降低，以對美國為例，三年前的平均實率為每分

自原本每分鐘十七元，降為每分鐘八元，在行動電話上，自由競爭造成消費者與業者雙贏的局面，國際網路的普及率，也自三年前的百分之七，增加到百分之十四。其次於新加坡、澳洲和紐西蘭，國際間的競爭也逐年降低，以對美國為例，三年前的平均實率為每分

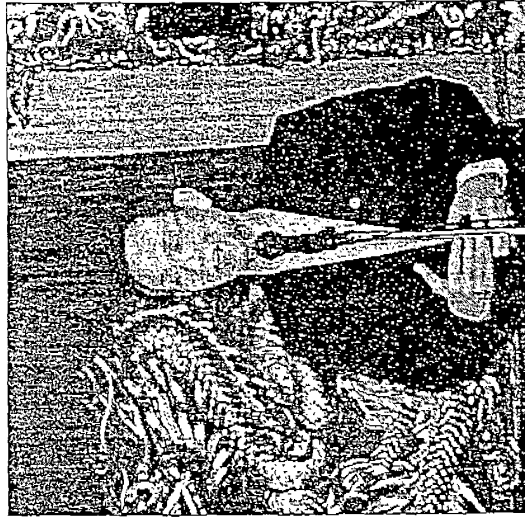
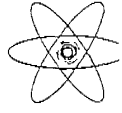
鐘十七元，今年四月已降到每分鐘八元以下，降幅近百分之五。接下來第三代無線網路(3G)及固網開放，也可刺激電信事業再成長，並希望獲得此好處目前漸失業者努力，簡局長就歸功於電信局全體人員和業者不斷的努力，以及交通部兼務部部部對技術專業能力的

# 台灣電信自由化三年有成

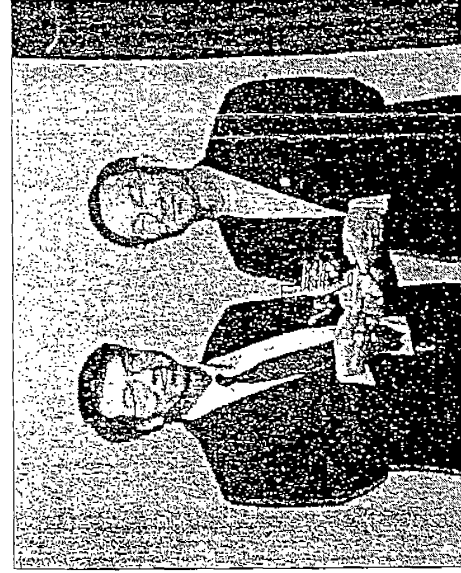
## 簡仁德局長指出行動電話普及率冠全球

際，引起許多從事電信工作的會員的興趣。這次在UTCI(UTCI)主辦的專題研討會，在簡局長安排下，在菲州參加美國中工會得款電信自由化的成就，簡局長在會中報告電信自由化的選

谷福光醫師及中會成員近四十人，這項座談，



電信局局長簡仁德致詞



中工會會長李鴻文致贈紀念品予簡仁德局長

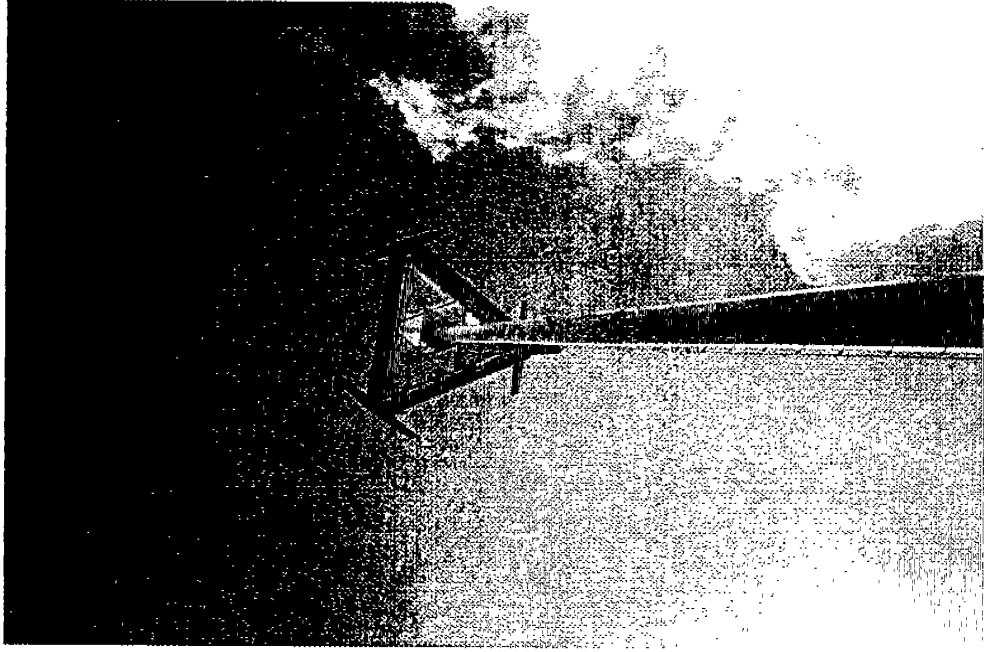
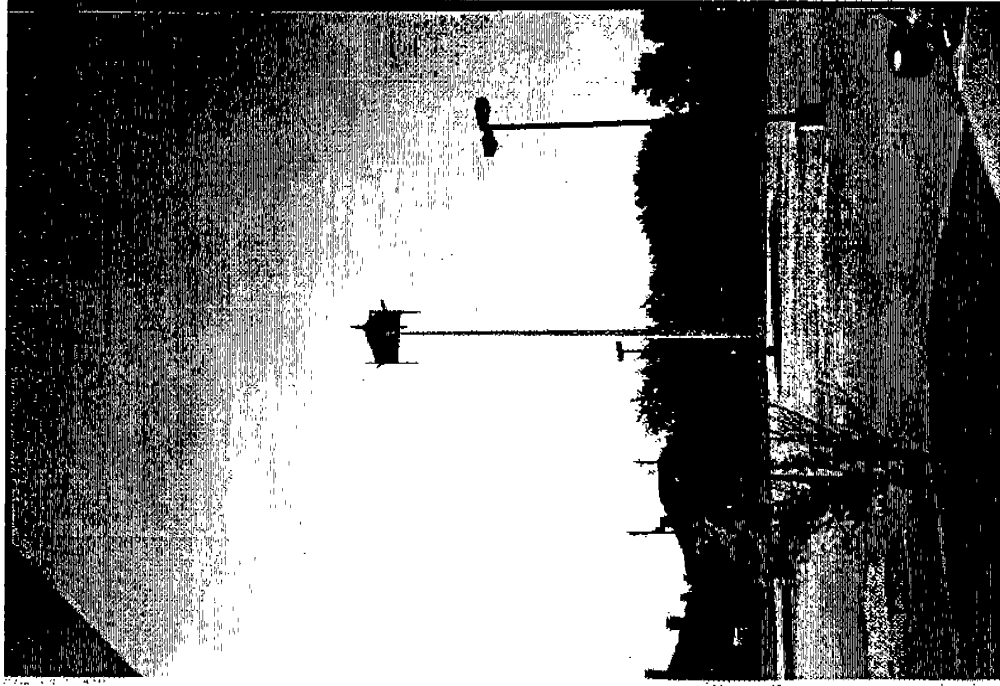




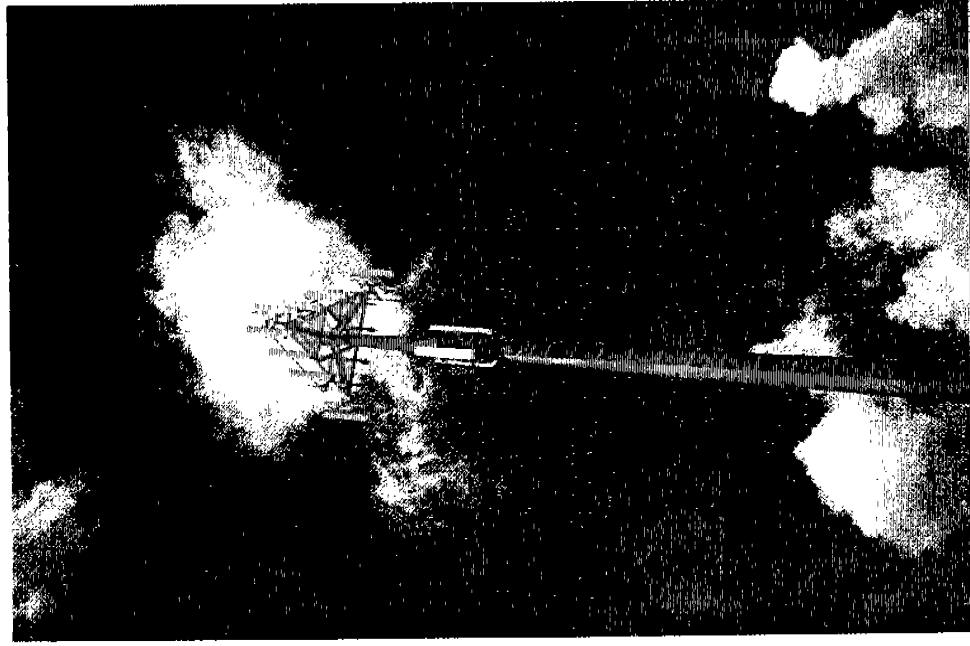
## 附件四

德州地區行動電話基地台之相片

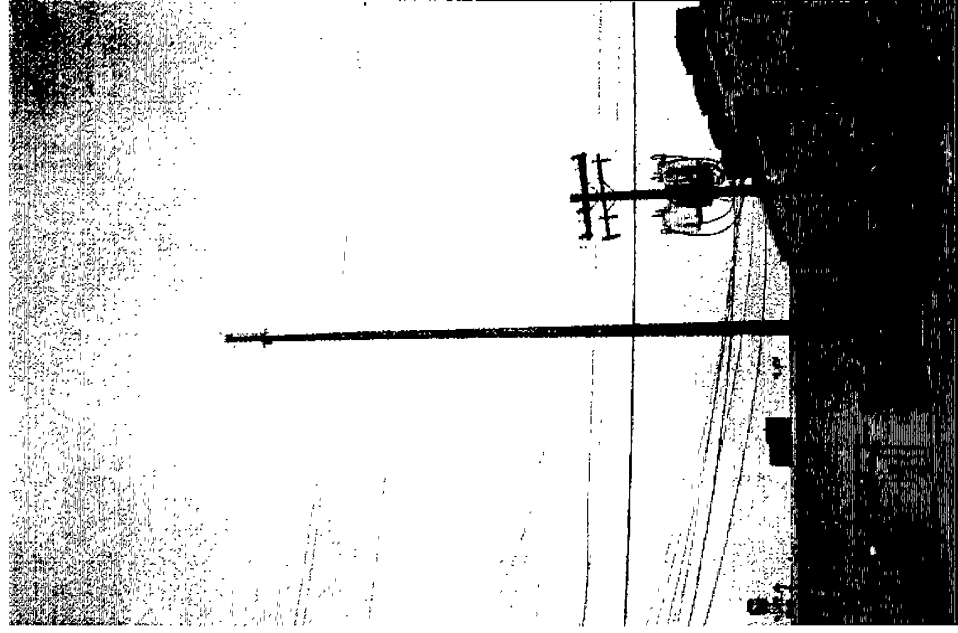
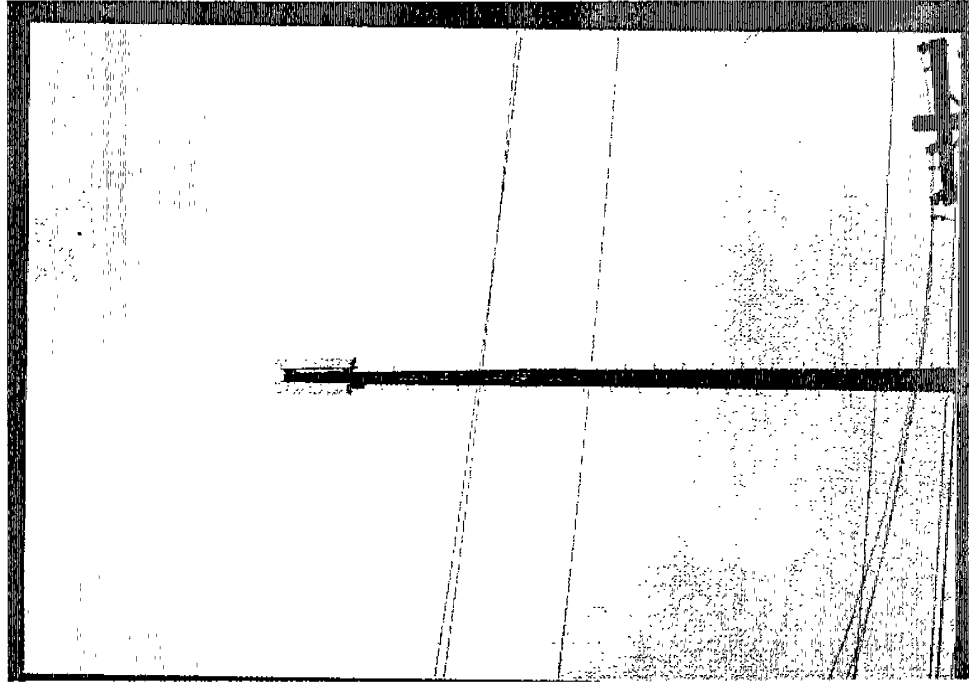
利用立桿架設基地臺天線



# 利用立桿架設多基地臺天線



# 利用立桿架設基地臺天線



利用鐵塔自立式架設基地臺天線



# 利用電力鐵塔架設天線



# 利用電力鐵塔架設天線

