

美南國建協進會
The Association of Chinese American Professionals
二零零八年科學工程技術研討會暨年會

2008
Science, Engineering and Technology Seminars (SETS)

**大會議程
Program**

Theme: Technology, Medical and Business Management
會議主題：科技、醫學與商務管理

Saturday, May 10, 2008

**Sugar Land Marriott Hotel
16090 City Walk, Sugar Land, Texas**

For more information:
<http://www.acap-usa.org>



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A Welcome Message from the President of ACAP

Frank Lin 林國強

Greetings!

Welcome to the 30th annual Science, Engineering and Technology Seminar (SETS, 科學工程技術研討會)! Especially, we would like to extend our warm welcome to Dr. Shen-Hsien Chen and his delegation from Taiwan's Water Resources Agency. The Association of Chinese American Professionals (ACAP, 美南國建協進會) has hosted this conference every year in the Houston, Texas since its founding in 1978. We are celebrating our 30th anniversary this year. As we look back over the past 30 years of ACAP, the path of the challenge that ACAP has gone through is remarkable.



On May 2, 2008, the 8th Diversity Summit (DS, 多元化高峰會議) was held at the Sugar Land Marriott Hotel. This year's conference has continued our commitment to help to create an inclusive environment in workplaces across the regions that value diverse skills, perspectives, and backgrounds. The Summit has focused on "Global Impact on Houston Economy" and has brought together business, community, government and academic leaders to discuss how diversity plays an ever-increasing role in the business world and why inclusiveness is a key to productivity. The day-long conference has offered workshops on such topics as Global Diversity, Maximizing Personal Potential, Inter-Cultural Communications, and Supplier Diversity. The Summit was of interest to corporations, small businesses, academic institutions, government and educational entities. It attracted over 300 attendees from major corporations as well as small businesses. This is our effort to reach out to the main stream and we have been very successful in doing so for several years.

The theme of this year's SETS is "Technology, Medical and Business Management." Today's program will include various sessions and numerous topics related to Nano Technology, Renewable Energy, Water Resource Management, Research Development and Commercialization of Technology, Business Management and Tax Planning, Everyday Knowledge Management, Financial and Retirement Planning, Current Knowledge of Integrative Medicine and Better Living.

I am very proud and honored to serve as the 30th president of ACAP. That being said, none of the meetings (DS and SETS) could have been successful without the hard work of volunteers or the generous support of sponsors and collaborating organizations. I would like to extend my sincere appreciation to everyone who made these events possible.

We are confident that you will find today's conferences informative, rewarding and exhilarating. As we are celebrating the thirtieth anniversary of ACAP, we are also truly looking forward to the continued success in the coming decades and beyond. Please let us know if there is anything that we can do better the next time.

Enjoy the day!



PROCLAMATION

Whereas, the *Association of Chinese American Professionals (ACAP)* is hosting the 2008 *Science, Engineering, and Technology Seminar (SETS)* on Saturday, May 10, 2008, focusing on *Integration of Technology and Business*; and

Whereas, founded in 1978, *ACAP* is an association of Chinese American professionals with a wide variety of expertise including engineering, science, health care, business, humanity, and arts and culture; and

Whereas, *ACAP* is hosting this 30th anniversary seminar in the Houston/Harris County area to provide a platform for bringing together many scientific, medical, and business communities, as well as individuals to discuss and share their experiences in the workplace; and

Whereas, *ACAP* is a non-profit organization and its mission is to promote professional growth of its members and to facilitate the exchange of knowledge and ideas in the Chinese American community; now, therefore


I, Ed Emmett, County Judge of Harris County, Texas, hereby proclaim Saturday, May 10, 2008, as

Science, Engineering, and Technology Seminar Day

in Harris County, Texas, and offer sincere best wishes for a productive and successful seminar.



In testimony whereof, I hereunto set my hand and caused the seal of Harris County, Texas, to be affixed this 10th day of April in the year of our Lord two thousand eight.


Ed Emmett
County Judge



Science, Engineering and Technology Seminar Day

Whereas, the Association of Chinese American Professionals (ACAP) has hosted the annual **Science, Engineering, and Technology Seminar (SETS)** in the greater Houston area every year since its founding in 1978 and is celebrating its 30th anniversary this year; and

Whereas, the **Science, Engineering and Technology Seminar** is not exclusively for (ACAP) members for it provides a platform for bringing together many scientific, medical, and business communities as well as individuals who wish to discuss and share their experiences in the workplace and with personal growth; and

Whereas, working with various peer organizations in the city, (ACAP) has organized many sessions ranging from Nano Technology, Water Resources Management and Flood Prevention and Control, Business Information Management, Business Management and Tax Planning, Retirement and Financial Planning, Commercialization of Technology, Medical Development and Healthy Living; and

Whereas, the 2008 **Science, Engineering and Technology Seminar** promotes the practice of careers in great demand in today's global economy contributing to Houston's prosperity, and

Therefore, I, Bill White, Mayor of the City of Houston, hereby proclaim Saturday, May 10, 2008, as

Science, Engineering and Technology Seminar Day



In Witness Whereof, I have hereunto set my hand and have caused the Official Seal of the City of Houston to be affixed this 8th day of May, 2008, A.D.

Bill White

Bill White
Mayor of the City of Houston

二零零八年科學工程技術研討會暨年會
2008 Science, Engineering and Technology Seminars (SETS)

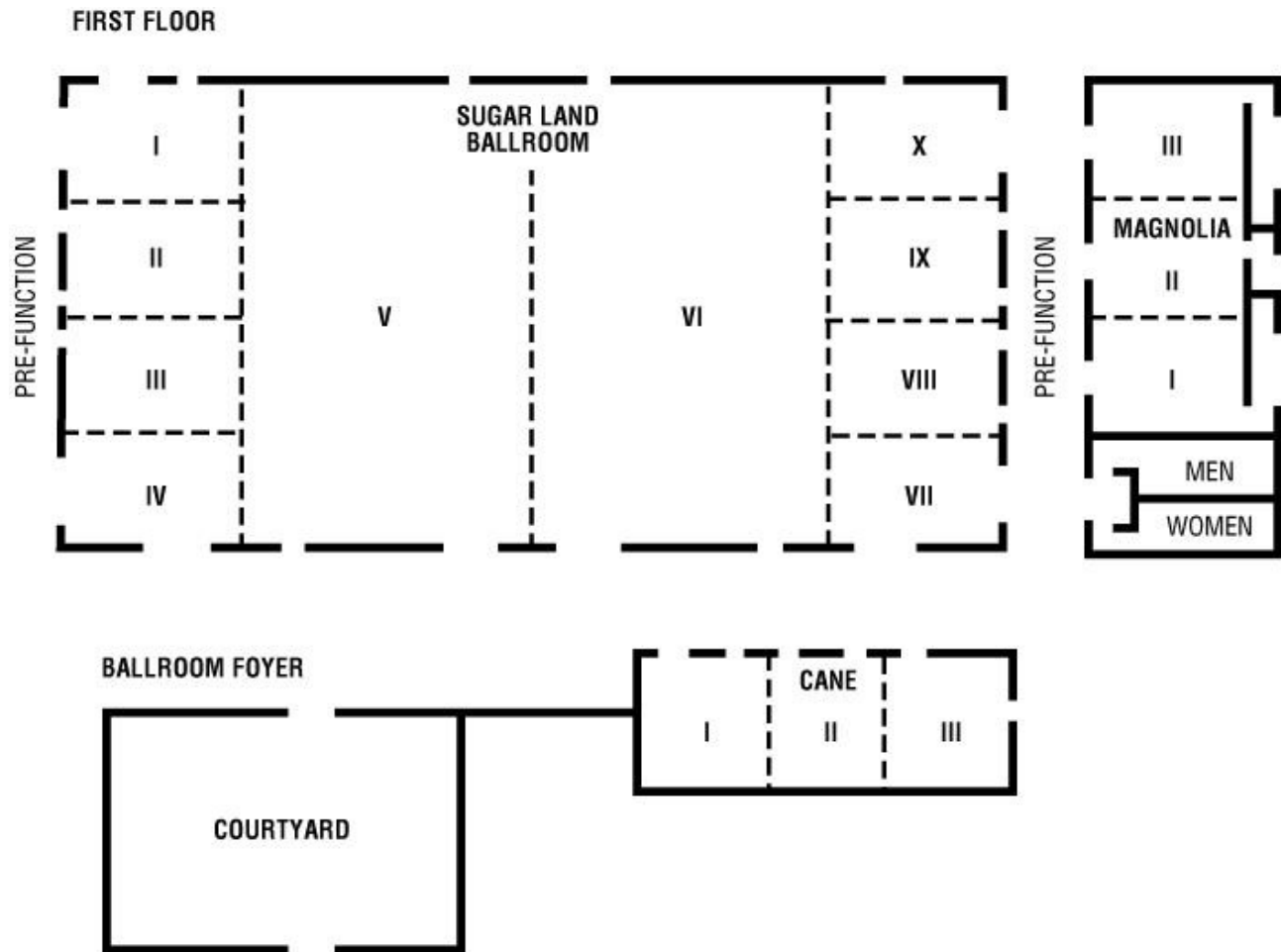
Sugar Land Marriott Hotel
 Saturday, May 10, 2008

Program-at-a-Glance

7:00am-8:00am	Speakers and Chairs Breakfast (Cane I)				
8:00am-9:00am	Registration (Ballroom Foyer)				
9:00am-12:00pm	Water Resource Management 【水資源管理】	Management of Research and Development 【研發管理】	CPA Session 【專業會計師財務管理研習班】	Nano Technology 【奈米科技】	Better Living 【生活管理】
	Cane I - III	Sugar Land Ballroom VII	Sugar Land Ballroom VIII	Sugar Land Ballroom IX	Magnolia I - III
	Advancement and Technology Transfer of Water Resources Management 水資源管理及技術 Chairs : Keh-Han Wang, Chi-Chung Chang 主持人：王克漢, 張濟群	Commercialization of Technology 科技商業化 Chairs : Thomas Lin, Billy Liu 主持人：林誌祥, 劉耀華 僑務委員會休士頓華僑文教服務中心協助規劃	Tax Controversy Overview and Retirement Plan for Small Business 公司企業及個人查稅需知與小型企業退休計劃 Chair : Janet Chung 主持人：鍾宜秀 休市華美會計師協會協辦	Nano & Composite Technology 奈米及複合技術 (This session starts at 8:30am) Chairs : Su-Seng Pang, Howard Paul 主持人：彭樹成, 浦浩德	Health and Family Crisis Management 健康與家庭危機管理 Chair : Michelle Wu 主持人：陳美雪 世界華人工商婦女企管協會美南分會協辦
12:00pm-2:00pm	Luncheon and Keynote 【午餐及專題演講】(Sugar Land Ballroom VI) <ul style="list-style-type: none"> Welcome Remark : Joseph Fong-Cheng Chen, Director-General, Taipei Economic and Cultural Office in Houston 駐休士頓台北經濟文化辦事處陳方正處長 Proclamations Presentation : Alice Chen (譚秋晴) for US Congressman AL Green Theresa Chang (張文華) for Harris County Judge Ed Emmett Edward Chen (陳天生) for City of Houston Bill White Keynote Speaker : Cris Eugster, Ph.D., Chief Officer for Sustainable Growth for the City of Houston "The Path Forward: Energy Efficiency and Renewable Energy" Shen-Hsien Chen, Ph.D., Director-General, Water Resources Agency, Ministry of Economic Affairs, Taiwan, ROC 台灣經濟部水利署陳伸賢署長 "A Water Infrastructure Vision for Taiwan" 「台灣水利的遠景」 Award Presentation : Distinguished Achievement Award: Theresa Chang 張文華, Harris County District Clerk Outstanding Service Award: Judy Wen 文 芊 Leadership Scholarship Presentation : Jaye Wong 				
2:00pm-5:00pm	Water Resource Management 【水資源管理】	Information Technology 【資訊技術】	Financial Plain and Retirement Planning 【財務管理與退休規劃】	Medical Session 【醫學講座】	
	Cane I - III	Sugar Land Ballroom VII	Sugar Land Ballroom VIII	Magnolia I - III	
	Advancement and Technology Transfer of Water Resources Management 水資源管理及技術 Chairs : Keh-Han Wang, Chi-Chung Chang 主持人：王克漢, 張濟群	Knowledge Management 知識管理 Chair : Jessie Wang 主持人：汪乃強 華人電腦協會協辦	Company Financial Plan and Retirement Planning 公司財務計劃與個人退休規劃 Chair : Cecilia Chang 主持人：甘幼蘋 休士頓華人專業協會協辦	Current Knowledge of Integrative Medicine 綜合性醫學新知 Chairs : Karl K. Chen, Grace Chen 主持人：陳康元, 陳王琳	

二零零八年科學工程技術研討會暨年會
2008 Science, Engineering and Technology Seminars (SETS)
Sugar Land Marriott Town Square
May 10, 2008

Conference Center Floor Plan



All activities are located on the first floor.

Session Information

Time	Session Can I - III
9:00am-12:00pm	<p>[Water Resource Management Session] 【水資源管理】</p> <p>Co-Chairs: Dr. Keh-Han Wang (王克漢), University of Houston Dr. Chi-Chung Chang (張濟群), URS Corporation</p> <p>Theme : Advancement and Technology Transfer of Water Resources Management (Under Extreme Events) 主題：水資源管理及技術</p> <p>This session is designed to share the experiences of water resource management at all levels efforts in US and Taiwan. This session will also promote collaboration and create business opportunities for everyone.</p> <p>Speaker: Lihwa Lin (林立華), USACE Topic: Matagorda Ship Channel, Texas, Navigation Risk Studies</p> <p>Speaker: Michael Talbott, HCFCD Topic: Flood Minimization in Harris County, Texas</p> <p>Speaker: Chung-Chu Teng (鄧中柱), NOAA Topic: Long-term Wave-height Measurements for the Design of Protective Coastal Structures</p> <p>Speaker: Ross Richardson, FEMA Topic: NFIP and Floodplain Management in US</p>

Time	Session	Sugar Land Ballroom VII
9:00am-12:00pm	<p>[Management of Research and Development Session] 【研發管理】</p> <p>僑務委員會休士頓華僑文教服務中心協助規劃</p> <p>Co-Chairs: Dr. Thompson Lin (林誌祥), Applied Optoelectronics, Inc City of Houston Dr. Billy Liu (劉耀華), Celanese</p> <p>Theme: Commercialization of Technology 主題: 科技商業化</p> <p>This session is designed to create business opportunities for everyone. The focus of our session is to share experiences regarding:</p> <ul style="list-style-type: none"> • How can we capture the opportunity from research and development at your work, and • What solution can we provide, how to conduct market analysis, understand the funding source and funding mechanism. <p>This seminar is also created to share global marketing strategies</p> <p>Speaker: Thompson Lin(林誌祥), Ph.D., Founder, President & CEO, Applied Optoelectronics, Inc City of Houston</p> <p>Topic: AOI Semiconductor Laser Technology Commercialization</p> <p>Speaker: Alex Freundlich, Ph.D., Research Professor of Physics, Electrical and Computer Engineering Department, University of Houston</p> <p>Topic: Challenges and Emerging Opportunities for A Very Large Scale Development of Solar Photovoltaics</p> <p>Speaker: David Chen, Ph.D.</p> <p>Topic: Solar Energy Industry Development in Taiwan and the Business Opportunities</p> <p>Speaker: Sean Wang (王韶華), Ph.D., President, ITRI International Inc.Ph.D.</p> <p>Topic: ITRI: Technology Commercialization and Collaboration Opportunities 從構想到新產品開發</p>	

Time	Session	Sugar Land Ballroom VIII
9:00am-12:00pm	<p>[CPA Session] 【專業會計師財務管理研習班】</p> <p>休市華美會計師協會協辦</p> <p>Chair: Janet Chung (鍾宜秀), CPA</p> <p>Theme: Tax Controversy Overview and 412 (e)(3) Retirement Benifit Plan 主題: 公司企業及個人查稅需知與小型企業退休計劃</p> <p>研習班將授與參加人士在職進修學時。</p> <p>Speaker: Daniel T. Castillo, JD, CPA Topic: Tax Controversy Overview – Examinations, Appeals, Courts, and Collections. 討論題目: 公司企業及個人查稅需知</p> <p>介紹有關查稅程序，申訴程序，司法程序，徵收程序，折衷方案提議，分期付款協議等課題。</p> <p>Speaker: Mary Chiang (江桂芝), CFP, CLU, ChFC, CPA Topic: 412(e)(3) Defined Benefit Pension Plans 討論題目: 限定福利退休計劃</p> <p>412(e)(3)退休計劃好處及缺點，退休計劃的要求，為什麼要選擇 412(e)(3)退休計劃，如何將限定福利退休計劃轉變成 412(e)(3)。</p> <p>412(e)(3) Defined Benefit Plan advantages and disadvantages, retirement requirement, why chose 412(e)(3) retirement plan, how to convert existing defined benefit to 412(e)(3) plan.</p> <p>依照美國會計師協會之規定，專業會計師執照持有人每年需進修若干小時。本課程與下午財務管理班與資訊管理班合乎美國會計師協會之規定，可算八小時進修學時。</p>	

Time	Session	Sugar Land Ballroom IX
8:30am-11:30pm	<p>[Nano Technology Session] 【奈米科技】</p> <p>Co-Chairs: Dr. Su-Seng Pang (彭樹成), Louisiana State University, and Dr. Howard Paul (浦浩德), P.E., ACAP Director</p> <p>Theme: Nano and Composite Technology 主題: 奈米及復合技術</p> <p>Paper Presentations (論文發表):</p> <p>Speaker #1: Howard Paul, Ph.D., P.E., ACAP Advisor Title: “An Overview of Modern Nanotechnology”</p> <p>Speaker #2: Amit Maha, Ph.D. Student, Department of Mechanical Engineering, Louisiana State University Title: “Boiling Heat Transfer Enhancement Using Micro Pin-Fin Heat Exchanger” (Co-authors: Kun Lian and Su-Seng Pang)</p> <p>Speaker #3: Dr. Shengmin Guo, Assistant Professor, Department of Mechanical Engineering, Louisiana State University Title: “Optical Properties of Polymer/Ceramic Composite Nano Fibers”</p> <p>Speaker #4: Dr. M.A. Wahab, Associate Professor, Department of Mechanical Engineering Louisiana State University Title: “Design of a Prototype Adaptive Filament Winder for Non-Conventional Cross-Sectional Pipes” (Co-Authors: Ben Bales, Scott Netherland, Justin Templet, Jeremy Turner and Guoqiang Li)</p> <p>Speaker #5: Dr. Kun Lian, Associate Professor Research Center of Advanced Manufactures & Devices Title: “Biomass Based Metal-Carbon Core-Shell Nanoparticles Fabrications”</p> <p>Speaker #6: Dr. Guoqiang Li, Joint Assistant Professor, Southern University/ Department of Mechanical Engineering, Louisiana State University Title: “A Self-Healing Syntactic Foam under Multiple Impact” (Co-Author: Manu John)</p> <p>Speaker #7: Dr. Jinquan Cheng, Research Associate, Department of Mechanical Engineering, Louisiana State University Title: “Free Vibration Analysis of the Grid Stiffened Composite Structure with Various Fillers” (Co-authors: Guoqiang Li and Su-Seng Pang)</p> <p>Speaker #8: Dr. Su-Seng Pang, Professor, Department of Mechanical Engineering, Louisiana State University Title: “Smart Adhesively Bonded Piezoelectric Composite Joints” (Co-Authors: Jinquan Cheng and Guoqiang Li)</p>	

Time	Session Magnolia I - III
9:00am-12:00pm	<p>[Better Living Session] 【生活管理】</p> <p>世界華人工商婦女企管協會美南分會協辦</p> <p>Chair: Michelle Wu (陳美雪)</p> <p>Theme : Health and Family Crisis Management 主題：健康與家庭危機管理</p> <p>Speaker: Alice Chen (譚秋晴), CPA, MBA, LUTCF</p> <p>Topic: A Miraculous Second Chance in Life</p> <p>演講題目: 奇蹟重生</p> <p>Speaker: Jean Lin (林琬真)</p> <p>Topic: An Unspeakable Experience of Learning US High School Rules – Family Crisis Management</p> <p>演講題目: 對美國中學校園及校規的新認知</p>

Time	Session	Sugar Land Ballroom VI
12:00pm-2:00pm	<p>[Luncheon and Keynote] 【午餐及專題演講】</p> <ul style="list-style-type: none"> ▪ Welcome Remarks: Joseph Fong-Cheng Chen, Director-General, Taipei Economic and Cultural Office in Houston 駐休士頓台北經濟文化辦事處陳方正處長 ▪ Proclamations Presentation: Alice Chen (譚秋晴) for US Congressman AL Green Theresa Chang (張文華) for Harris County Judge Ed Emmett Edward Chen (陳天生) for City of Houston Mayor Bill White ▪ Lunch ▪ Keynote Address: Cris Eugster, Ph.D., Chief Officer for Sustainable Growth for the City of Houston "The Path Forward: Energy Efficiency and Renewable Energy" Shen-Hsien Chen, Ph.D., Director General, Water Resources Agency, Ministry of Economic Affairs, Taiwan, ROC 台灣經濟部水利署陳伸賢署長 "A Water Infrastructure Vision for Taiwan" 「台灣水利的遠景」 ▪ Award Presentation: Simon Tung 董元慶 <ul style="list-style-type: none"> 1. ACAP 2008 Distinguished Achievement Award Recipient: Theresa Chang 張文華, Harris County District Clerk 2. ACAP 2008 Outstanding Service Award Recipient: Judy Wen 文芊 ▪ Leadership Scholarship Presentation: Daniel Chen 陳皇序 <ul style="list-style-type: none"> • Formosa Plastic Company Scholarship Recipient: Jaye Wong, Senior at Kempner High School 	

Time	Session Can I - III
2:00pm-5:00pm	<p>[Water Resource Management Session] 【水資源管理】</p> <p>Co-Chairs: Dr. Keh-Han Wang (王克漢), University of Houston Dr. Chi-Chung Chang (張濟群), URS Corporation</p> <p>Theme : Advancement and Technology Transfer of Water Resources Management (Under Extreme Events) 主題：水資源管理及技術</p> <p>This session is designed to share the experiences of water resource management at all levels efforts in US and Taiwan. This session will also promote collaboration and create business opportunities for everyone.</p> <p>Speaker: Keh-Han Wang (王克漢), University of Houston Topic: 2D/3D Modeling for Flood Flows, Reservoir Sedimentation, and Coastal Storm Surges</p> <p>Speaker: Hsin-Ya Ho (何興亞), Deputy Director, Taiwan Int’I Institute for Water Education Topic: Information Support System for Flood Emergency Response in Taiwan</p> <p>Speaker: J.F. Krou, URS Corporation Topic: Urban Flood Mitigation by Using 2D Flow Modeling</p> <p>Speaker: ChiChung Chang (張濟群), URS Corporation Topic: Remote Sensing and Watershed Management</p>

Time	Session	Sugar Land Ballroom VII
2:00pm-5:00pm	<p>[Information Technology Session] 【資訊技術】</p> <p>華人電腦協會協辦</p> <p>Chair: Jessie Wang (汪乃強)</p> <p>Theme: Knowledge Management 主題: 簡易知識管理</p> <p>In this open forum seminar, we will begin with a brief intro to knowledge management; follow by live demos showing you how to integrate knowledge management discipline into your day to day Cyber life.</p> <p>此次研討會將著重於下列幾項課題:</p> <ol style="list-style-type: none"> 1. 知識管理之定義及範圍 2. 最新知識管理技術 3. 知識管理軟體運用 	
Time	Session	Sugar Land Ballroom VIII
2:00pm-5:00pm	<p>[Financial Plain and Retirement Planning] 【財務管理與退休規劃講座】</p> <p>休士頓華人專業協會協辦</p> <p>Chair: Cecilia Chang (甘幼蘋)</p> <p>Theme: Company Financial Plan and Retirement Planning 主題: 公司財務計劃與個人退休規劃</p> <p>Speaker: Lily K. Shen (康介莉), Owner, Financial Controller, Castilian Trading Topic: The Company Financial Plan Using strategy map score card -- special during challenge 2008 討論題目: 公司財務計劃: 使用企業策略地圖, 平衡計分卡 -- 特別在具挑戰性的二零零八年</p> <p>Speaker: Nancy Chang (張碧南), Financial Consultant, A.G. Edwards & Sons, Inc. Topic: Business and Individual Retirement Planning 討論題目: 企業與個人退休計劃 如何建立一個完善的退休計劃來「吸引」或「保留」住優秀的員工。在今日的職場中, 優秀的職員視公司提供的退休計劃是全盤薪資的一部份。一個完善的退休計劃, 不僅可以幫企業抵稅及減輕公司所得稅, 也有利於公司業主本人得到退休財務上的保障, 同時又能協助員工建立投資理念, 以達長期投資的效果。</p>	

Time	Session	Magnolia I - III
2:00pm-5:00pm	<p>[Medical Session] 【醫學講座】</p> <p>Co-Chairs: Karl K. Chen, M.D., Ph.D. 陳康元醫師 Grace L Chen, Ph.D., R.N. 陳王琳博士</p> <p>Theme : Current Knowledge of Integrative Medicine 主題：綜合性醫學新知</p> <p>醫學科技日新月異，而且近年來許多西方以及美國主流醫療機構，正如火如荼的展開對非傳統式療法的科研。今年一月二十一日的美國新聞雜誌封面，更以醒目的標題刊登“替代性療法走向主流”(U. S. NEWS: Alternative Medicine Goes Mainstream)。一般讀者若沒有深入的瞭解，和醫學的背景，很可能被誤導，以致錯失疾病得醫治的良機，並且帶來相反的後果。我們特別邀請了中西醫學專家，從多種角度，介紹綜合性的保健及醫療新知。(The seminar will be conducted in Mandarin with most of the slide presentations in English.)</p> <p>Speaker: Lu-Yu Hwang, M.D. (黃綠玉醫師), Professor, Div. of Epidemiology & Disease Control, School of Public Health University of Texas HSC at Houston Topic: Current Biomedical Advances in Diagnosis, Treatment and Prevention 生物醫學新知：診斷，治療，與預防</p> <p>Speaker: Tzu C. Lu, M.D., Ph.D. (呂子樵醫師), Psychiatrist, Ph.D. in Psycho-Pharmacology, UCLA Topic: The Science of Happiness 幸福不幸福</p> <p>Speaker: Shen Ping Liang, Ph.D., L.AC. (梁慎平博士), Chancellor, American College of Acupuncture and Oriental Medicine 華美中醫學院院長 Topic: Natural Medicine 自然醫學：人類的健康 - 與自然共舞</p> <p>Speaker: Karl K. Chen, M.D., Ph.D. (陳康元醫師), Medical Director, Radiation Oncology, Citizens Medical Center, Victoria Topic: Integrative Resolutions for Your Health 綜合性保健漫談</p>	

Abstracts for Development and Management of Technology [研發管理]

AOI Semiconductor Laser Technology Commercialization

Thompson Chih-Hsiang Lin (林誌祥), Ph.D.

Abstract

Applied Optoelectronics, Inc. (AOI) was founded in February of 1997. The goal of the company was to commercialize the semiconductor laser technologies developed by Dr. Lin and his team, using the Molecular Beam Epitaxy (MBE) technique. Initially, AOI secured funding from U.S. government agencies that provided nearly \$3 million to fuel AOI's initial growth. With this modest funding, the company was an immediate success, generating a profit in each of the first 3 years of its existence. The financial acumen demonstrated by AOI culminated a successful Series A private equity placement in early 2000 netted \$7.1 million for AOI's expansion.

With the market downturn starting in 2001, AOI successfully identified a profitable niche market and managed a turn-around of AOI's product line, steering the company from products intended for long-haul systems, to become what is today one of the leading suppliers of semiconductor lasers and sub-systems for Cable Television, Metro, and fiber to the home (FTTH) markets for optical communications. With excellent leadership, AOI was able to develop and deploy high-performance analog lasers for video transmission. Currently, AOI is the #2 supplier worldwide for video lasers. Based on technological leadership and ability to correctly anticipate market trends, AOI successfully raised a total of \$71 million over five financing rounds. Currently, AOI has about 225 employees in US (Texas and California) and more than 800 employees worldwide.

Challenges and Emerging Opportunities for A Very Large Scale Deployment of Solar Photovoltaics

Alex Freundlich, Ph.D.

Abstract

Minimizing anthropogenic alterations of the world climate calls for tens of terawatts of carbon free renewable energy resources. Yet the combined energy production potential of all known non-solar carbon-free renewable resources seems insufficient to meet these targets. Consequently in the upcoming decades solar energy, and in particular photovoltaics (PV), is expected to bridge the gap.

Boosted by regulatory incentives, the multi-billion dollar PV industry, in its sub-gigawatt energy production level, is experiencing a strong growth and a significant influx of venture capital investment. Recent technical developments in inexpensive (and often inefficient ~10%) thin films devices, together with the growing penetration of PV into the energy market, are driving down the cost of solar electricity to the point where the balance of system cost becomes dominant. An estimate of the ultimate energy production limits for existing photovoltaic technologies, based on available global planetary material reserves, forecasts severe material shortages that would prevent a scale-up to the terawatt range. Incidentally, although the operation of solar cells has a benign environmental impact, considering the scale of the deployment, toxic/carbon emanations during the manufacturing processes (and recycling/decommission), which derive their energy needs from the available fuel mix (initially mostly fossil fuel), could also adversely affect the environmental outcome.

Solar Energy Industry Development in Taiwan and the Business Opportunities

David Chen, Ph.D.

Abstract

Solar energy as one of the renewable energies started to gain attention in 1970s due to the oil crisis. However, it was too expensive at that time and had never been as one of significant alternate energy sources to meet the strong demand of energy worldwide. It received great attention again in 1990s due to the advanced technology development in conversion efficiency and mass production which helps in driving the costs down. The costs were still quite high. Therefore, the government incentives have been required to attract the people to install the solar energy systems at this stage. It may become justified as the affordable alternate energy without the government supports in five to ten years. Germany is the leading country which utilizes the solar energy as an alternate energy since 1990's.

Taiwan has been among the leaders in manufacturing electronics, semiconductors and flat panel displays. Therefore, it is very easy to enter into manufacturing solar cells. Taiwan has already become the fourth largest manufacturer in solar cell production. In 2008, the output will be around 2 billion USD. It is expected to become the top three players in or before 2012. Most of the outputs are currently from mono and poly crystalline solar cells. However, the thin film solar cells will be catching up very quickly. It may surpass the crystalline solar cells in five to ten years if efficiency and reliability can be much more advanced shortly.

ITRI: Technology Commercialization and Collaboration Opportunities

Sean Shao-Hwa Wang (王韶華), Ph.D.

Abstract

ITRI has contributed significantly to Taiwan's industry, especially, the well-known high-tech sector. The primary function of ITRI has been to bridge the gap between basic research and technology commercialization. In its value creation process, ITRI engages in R&D, technical and knowledge-based services, technology licensing, spin-off, incubation, venture funding, and IP business by working with domestic and international partners. To facilitate technology commercialization, ITRI has a strong technology transfer practice, a world-class Open Lab as incubation center, and a VC arm—Industrial Technology Investment Corporation (ITIC.) ITRI's Open Lab has incubated over 140 companies and was awarded "Incubator of the Year" by National Business Incubation Association (NBIA) of the U.S. in 2006. ITRI benefits ITIC in both technical due-diligence and deal sourcing. In return, ITIC has been responsible for creating opportunities of technology commercializing for ITRI's laboratories while concurrently generating exceptional returns for ITRI. Examples of technology commercialization at ITRI include the past glory of TSMC, UMC, and Taiwan Mask Corporation (TMC) as well as more recent cases such as EPISTAR (an LED company), DelSolar (a solar cell company), Yen-Long Technology (an "artificial mining" company) and a multi-temperature food distribution service system. Leveraging on international open innovation and entrepreneurship, ITRI is becoming an innovation, fast development, and commercialization partner with start-ups and/or individual inventors, especially those in North America.

Abstract and Outline for CPA Session [財務管理研習]

Tax Controversy Overview – Examinations, Appeals, Courts, and Collections

Daniel T. Castillo, JD, CPA

Abstract

This discussion will provide a broad overview of how disputes between the IRS and taxpayer arise and are resolved. The discussion will examine how tax audits are initiated and conducted. Consideration will then be given to the administrative appeals process for cases that are not resolved by the audit. In addition, taxpayer options for court appeals will be outlined. Finally, for those cases resulting in a liability owed by the taxpayer, there will be a brief review of how to deal with the Collections division of the IRS.

- Examinations
- Other Procedures
- Appeals
- Court Appeals
- Collections

412(e)(3) Defined Benefit Pension Plans

Mary Chiang (江桂芝), CFP, CLU, ChFC, CPA

Outline

- Introduction to 412(e)(3) Defined Benefit Pension Plan
- Types of Qualified Retirement Plans
- Aspects of Qualified Plans
- Key Requirement of Qualified Plans
- Features and Advantages of 412(e)(3) Plan
- Why 412(e)(3) Plan?
- Traditional Defined Benefit Plan Versus 412(e)(3) Plan
- Disadvantages of 412(e)(3) Plan
- Market for 412(e)(3) Plan
- 412(e)(3) Plan – Limits on Lump Sum Distribution
- 412(e)(3) Plan Requirements
- 412(e)(3) Plan-Life Insurance Portion
- 412(e)(3) Plan –Federal Income Taxation
- Converting a Defined Benefit Plan To a 412(e)(3) Plan
- 2007 Qualified Contribution Limits
- 2007 Qualified Benefit 412(e) Plan Limits

Abstracts for Better Living Session [生活管理]

A Miraculous Second Chance in Life

奇蹟重生

Alice Chen (譚秋晴), CPA, MBA, LUTCF

In late 2006, former Houston Asian Chamber of Commerce Chairwoman Alice Chen discovered that she had developed a rare and potentially fatal disease called amyloidosis. In the course of her treatment, she also found out she had developed thyroid cancer that eventually required surgery and radiation therapy.

A year later, Alice has miraculously recovered and returned to the Chinese community in which she had been active for over 25 years. Having been given a second chance in life, Alice decided to dedicate her life to those most in need of help, but do not know where to turn to. Her plan, with the support of volunteers, is to launch a multi-lingual web based cancer support network, which she hopes will provide the much needed help for cancer patients around the world in their battles with cancer. The purpose of this presentation is to tell her story and hopefully inspire others to support this endeavor.

休士頓亞裔商會主席譚秋晴，前年底發現罹患可致命的罕見疾病「澱粉變樣」，醫治過程當中又發現患有另一種癌症，但是卻奇蹟式的恢復健康，在一年之後重新返回她活躍了二十多年的華人社區。譚秋晴死裡回生，決定把搶回來的生命貢獻給其他面臨病苦的人。她計畫集結義工力量，建立相關癌症聯絡網站，提供醫療資訊給所有求助無門的病人，協助他們盡最大可能跟病魔對抗。這個網站將從中英文雙語開始，呼籲全美國的華人支持這項努力。

癌症可以是一個喚醒我的警鈴，一個讓我親身體驗面臨「生與死」的經驗。我如何藉由這個經驗對自己和他與這個世界有一點幫助呢？很希望藉著這篇文章能分享一個訊息，那就是我們每一個人都是拜訪地球的客人，讓我們在這段「旅程」中能互相幫助、互相關愛，以及互相照顧。

An Unspeakable Experience of Learning US High School Rules –

Family Crisis Management

對美國中學校園及校規的新認知

Jean Lin (林琬真)

一年前的今天，我們全家正陷入一場前所未有的大災難。一向奉公守法，連張交通違規的罰單都沒拿過的人，在高中畢業前六個星期，居然變成了恐怖份子，還被踢出校園，不准參加畢業典禮，真是晴天霹靂，生活頓然陷入荒亂不知所措，四處求助，只為了兒子的前途，不想他在畢業前夕失去一切，就這樣，我們踏入了一場夢魘，每天我祈求 神解救我們，神也送來一批又一批的好朋友來幫助我們。現在回想起來，還是覺得很溫馨，很感動。幫助從各方面不同的方式湧入，兩岸三地的同胞都伸出援手，同心協力，只因一位華生落難，引起整個華人社區的憤慨和同情心。

一年後的今天，一切已事過境遷，兒子也順利地進了大學。但關懷之聲仍在，經常有人問起，對兒子的關懷依舊，真正令人感動。承蒙工商婦女協會的邀約，將過去一年的心情作個總結，也算是自我療傷，畢竟這場災禍中，我們才是真正的受害者。校園裡真有恐怖份子，可是他是誰呢？您對美國中學校園及校規了解多少呢？勤奮向學的華生為什麼惹禍上身呢？一場災難讓我們全家學習很多寶貴的經驗和對美國中學校的新認知，希望藉這個機會與您分享。

Abstract for Information Management Session [資訊管理]
Knowledge Management
簡易知識管理
Jessie Wang (汪乃強)

With the fast advancement of computer technology, knowledge management has become the top priority for the business process reengineer. No matter if you are the CEO, a new hire, or even retired (or just about to) baby-boomer, most of us are facing similar challenge – enormous emails, messages and electronic files waiting to be processed on a daily base, and this trend will only go up. Effective knowledge management has now become the most popular topic for the IT industry.

1. What is Knowledge Management?
2. What is Everyday Knowledge Management (EKM)?
3. Effective EKM in a nutshell
4. Live Demo - Life cycle of Knowledge Sharing
5. Conclusion

為了提高生產力及競爭力, 知識管理已成為公司行號不可或缺的工具, 中國人所謂的”知己知彼, 百戰百勝”, 就是知識管理最好的驗證。電腦資訊的蓬勃發展, 給人們帶來最大的挑戰便是知識管理。大多數的人, 無論您是公司的大老板, 初入行的小徒弟, 或者是賦閒在家的退休族, 簡訊, 電子郵件, 網路資料, 續以及各式各樣的電子檔案, 都是您每天必須要處理的業務, 這些業務只有持上升的趨勢, 所以如何運用電腦軟體及硬體做有效的知識管理, 已成為當前最熱門的話題。

1. 什麼是知識管理?
 - 定義
 - 現有系統 - Documentun, Lotus Notes, LiveLink , Microsoft SharePoint
 - 包括範圍- 企劃方案及計劃表, 相關文件, 電子郵件 及作業流程.
2. 什麼是簡易知識管理 Everyday Knowledge Management (EKM)?
 - 簡易知識管理包括 - 電子郵件, 行事曆, 部落格及網站群組(Internet Group).
 - 共同面臨的難題 - 過量的資訊, 無法有效管理.
3. 簡易知識管理之訣竅
 - 從小處著手, 精簡處理
 - 電子郵件處理簡介, 包括 Outlook, Yahoo 及 Google.
 - 網路虛擬社群之使用 - Yahoo, Google, FaceBook, etc.
 - 有效的運用部落格
 - 確認重要的電子文件, 並儲藏備份
4. 現場示範 - 有效管理部落格的生命周期
 - 資料, 素材之準備
 - 提綱, 概要
 - 相片, 影片及音響剪接
 - 利用 YouTube, Google 及 Windows Live 刊載
 - 與網站刊載之比較
5. 結論
 - 簡化整合 - 只用單壹電子郵件地址, 將個人與公司郵件清楚劃分
 - 電子文件檔案保管的重要性
 - 領導運用科技, 不要反為科技操作的對象

Outlines for 財務管理研習
The Company Financial Plan
Using strategy map score card -- special during challenge 2008
公司財務計劃
使用企業策略地圖，平衡計分卡 -- 特別在具挑戰性的二零零八年

Lily K. Shen (康介莉)

A. Financial, Customer value, internal perspective, Learning & growth. 4 categories
Above score set up %

B. Processing:

1. Accounting Department need goal – independently, openly, and fairly
2. Budget set up -- Review with each other department manager before set up
Quarterly review the actual expense and budget
3. Good communication with other department manager also negotiation with vendor –
Better processing and efficiency
4. Ultimately achieve the goal. May need adjustment the goal or budget by special case.

A. 四種策略計分：財務狀況，顧客價值，內部流程，員工學習與成長

B. 作業方式

1. 會計部門訂定目標
2. 預算編列，每季審核
3. 內部各部門間良好的溝通，不同部門與跨部門間有效的協商
4. 一定要達到目標：每季需作適當的調整，預先作準備以期達成目標

Business and Individual Retirement Planning
企業與個人退休計劃

Nancy Chang.(張碧南)

Why plan for Retirement?

Why establish Business Retirement Plan?

Types Business Retirement Plans for Closely Held Business (Small – Medium)

Types Individual Retirement Accounts

What to do with your 401K when you Retire or Leave Company?

Tax Advantaged Investing

Abstracts for Water Resource Management [水資源管理]

Coastal and Ocean Observations from In-situ Observing Systems

Chung-Chu Teng, Ph.D., PE

Abstract

U.S. National Data Buoy Center (NDBC) is a unit of the National Weather Service (NWS) of the National Oceanic and Atmospheric Administration (NOAA). NDBC's mission is to provide the uninterrupted delivery of high quality, real-time environmental data to the operational elements of NOAA for weather and ocean forecasts and warnings and for various coastal and deep ocean applications. NDBC operates an integrated, sustained marine weather and ocean observation and information delivery system which include (i) 105 buoys moored off East, West, Gulf, Alaska, and Hawaiian coasts and in the Great Lakes in the U.S. waters; (ii) 56 land-based Coastal-Marine Automated Network (C-MAN) stations ; (iii) 55 Tropical Atmosphere Ocean (TAO) buoys located across the tropical Pacific; and (iv) 39 Deep-ocean Assessment and Reporting of Tsunami (DART) buoys in Pacific Ocean. These observing systems are expanding through adding new sites or adding new ocean measurements to support IOOS Regional Associations.

These observing systems operated by NDBC support NOAA's role in the Integrated Ocean Observing System (IOOS) and the international Group on Earth Observation's System of Systems (GEOSS). The real time ocean observations from these observing systems are used by weather forecasters in both the government and private sector, climate and environmental studies, coastal managements, recreation and commercial fishing industry, search and rescue, and hazard spill mitigation just to mention a few. These data are also re-used by industry and research/scientific community (together with models, remote sensing data, and other in-situ data) to generate value-added products for the private sector and general public.

The status of NDBC's buoy networks (including sensors/measurements, functions, locations, and capabilities) will be presented. Some details of some technical issues (sensor/system development, platforms, operational considerations, data delivery and distribution) will be addressed. The current view of future development, new technology, and new design/applications of these observing systems will also be discussed.

Matagorda Ship Channel, Texas, Navigation Risk Studies

Lihwa Lin (林立華), Ph.D.

Abstract

Matagorda Ship Channel (MSC) stretches 25 miles from the Gulf of Mexico to terminal facilities at Port Lavaca and Point Comfort, Texas. The MSC, built in 1962 with an operating depth of 36 ft and width of 200 ft, is the shallowest of all Texas' ten deepwater ship channels. It is considered too narrow and shallow for today's modern larger ships. To keep the port industries competitive and accommodate the coming Liquefied Natural Gas (LNG) terminals, the MSC is presently under the evaluation of improvements with deeper and wider channels. This includes the Gulf entrance channel risk studies to jetty instability and navigation safety. As the input information for the entrance channel risk studies, the life-cycle tropical storm surge, wind speed, wave height and wave period need to be computed. The method and effort for the life-cycle analyses are presented in the SETS 08 program.

2D/3D Modeling for Flood Flows, Reservoir Sedimentation, and Coastal Storm Surges

Keh-Han Wang (王克漢), Ph.D.

Abstract

For the advancement of water resources management with emphasis on the issues related to the inland or coastal flood control and mitigation and sediment concentration in reservoirs, it is essential to have an effective hydrodynamic and transport model to provide critical engineering variables in assisting the design and operation analyses and in many cases providing the information for developing early warning systems. This presentation gives an overview of the development of a series of 2D/3D flow and transport models for watershed, overland flood simulation, reservoir flow and sediment transport computation and coastal storm surge prediction. The capability of model application will be introduced with sample calculations. Case studies for overland flows especially applied to watersheds under the storm events will be presented. A preliminary study of Shihmen Reservoir during the event of 2005 Typhoon Haitang was carried out to simulate the time variation of water level, flow circulation, and distribution of sediment concentration. The results with comparison to measured data will be presented and discussed.

Remote Sensing and Watershed Management

ChiChung Chang (張濟群), Ph.D.

The Harris County Flood Control District (HCFCD), Texas, received the National Aeronautic and Space Agency's Earth Science Enterprise (NASA/ESE) grant (NAG13-02027) from 2002 to 2005 to extend the benefits of NASA-derived data, research, and technology for geospatial applications. This is a technology transfer effort in Earth science into practical tools for public and private sector decision makers. HCFCD formed a technical team (including HCFCD, consultants and engineering firms) to conduct the technology transfer project. Harris County, Texas (the third most populous county in U.S. with 1,729 sq. mi. in size), is a very rapidly urbanizing area, that includes the City of Houston (the fourth biggest city in the nation). Specifically, the HCFCD team developed a methodology to integrate and analyze airborne Light Detection and Ranging (LIDAR) generated topographic data (15cm vertical accuracy), high resolution multispectral satellite data (IKONOS; 4m), and ancillary data (i.e., parcel based land use) to accurately map urban land cover. The new application specifically addressed the assessment and management of water and land resources in a rapidly growing metropolitan area, that also has applications to urban areas around the Nation and the World.

Honorable Guest

Joseph F.C. Chen

Director-General, Taipei Economic and Cultural Office in Houston

駐休士頓台北經濟文化辦事處陳方正處長

Mr. Joseph F.C. Chen graduated from Soochow University in 1970 with an LL.B. degree. He joined the Ministry of Foreign Affairs in 1972. He has served overseas as the Deputy Representative of the Taipei Economic and Cultural Representative Office in India. Other assignments abroad have taken him to Panama, New Zealand and Washington, D.C. Before coming to TECO- Houston in March 2008, he was the Deputy Director-General of General Affairs for MOFA.



學歷, 考試, 訓練:

私立東吳大學法律學系畢業

69 年外交特考

57 年普考外交行政人員

外交領事人員第 14 期

主要經歷:

外交部總務司科員

駐巴拿馬共和國大使館主事

外交部國際組織司荐任科員

駐紐西蘭代表處秘書

外交部總務司科長

駐美國代表處簡任一等秘書、副組長

外交部總務司副司長

駐印度代表處組長、副代表

外交部總務司副司長

Keynote Speaker

Cris Eugster, PhD
Chief Officer for Sustainable Growth
Mayor's Office, City of Houston

Dr. Cris Eugster is the Chief Officer for Sustainable Growth for the City of Houston, reporting directly to Mayor Bill White. The mission of the office is to develop and support programs that enable “sustainable growth” for the region and continued prosperity for the fourth largest city. Dr. Eugster works with leaders across the community and within city government to design and implement programs that make Houston more energy efficient and less dependent on fossil fuels, reduce waste streams to landfills, and support clean air and water policies for the region.



Dr. Eugster was previously a Partner with McKinsey and Company, an international management consulting firm, serving senior clients on market transformational strategies. He received his PhD and MS in Electrical Engineering from MIT, specializing in quantum transport in semiconductor devices. He received a BS in Electrical Engineering from Texas A&M University. He holds two patents and has numerous technology and business publications.

Keynote Speaker

Shen-Hsien Chen, Ph.D.

*Director-General, Water Resources Agency,
Ministry of Economic Affairs, Taiwan, ROC*

Dr. Shen-Hsien Chen has been serving as Director-General of Taiwan's Water Resources Agency (WRA) under the Ministry of Economic Affairs since 2003. He is recognized as a pioneer of water policy and successful water resources engineer. In this role, Dr. Chen is responsible for Taiwan's water resources planning, design, construction, operation and maintenance, and research. Before accepting his current position, Dr. Chen held numerous top-level administrative positions in the public service arena, including his service as Executive Director of the Kao-ping River Watershed Management Commission and Director of the Departments of Labor Standards and Labor Relations for the Council of Labor Affairs. His expertise ranges variously from water management, civil engineering, labor relations, labor inspection, sanitation safety, to negotiation and crisis management. Dr. Chen earned a master's of science degree in civil engineering from US Colorado State University in 1985 and just received the 2008 College of Engineering Distinguished Alumnus. He completed his Ph.D. in the Department of Construction Engineering at the National Taiwan University of Science and Technology in 2007.



Distinguished Achievement Award

Theresa Chang 張文華
Harris County District Clerk

Theresa Chang was appointed Harris County District Clerk by the State District Judges on Sept. 11, 2007. She was elected unanimously by the 59 district judges. At the time, Chang served as an Assistant County Attorney and Chief of the Compliance Division of the Harris County Attorney's Office. She was a chemical engineer for 15 years before joining the County Attorney's Office.



In May 2007, Gov. Rick Perry appointed Chang to the Prepaid Higher Education Tuition Board. The board allows individuals to prepay future college tuition and required fees at Texas public and private colleges and universities.

Chang served on the University of Houston System Board of Regents from September 1997 through September 2004 and was a member of the Harris County Children's Protective Services Board of Directors and its treasurer.

She is a board member of the State Bar of Texas, serving a term that expires in 2010. She is a member of the Houston Bar Association, board member of the Asian American Bar Association of Houston and past president of the Association of Chinese American Professionals. She also serves on the Board of Trustees of Houston Grand Opera, the Board of Texas Executive Women, and the Association Board of the Greater Houston YMCA.

She earned a bachelor's degree from National Taiwan University, a master's degree from Texas A&M University, Kingsville, both in chemical engineering, and a law degree from South Texas College of Law.

She is married to Dr. Peter Chang of Houston and lives in Piney Point Village.

Outstanding Service Award

Judy Wen 文 芊

Judy Wen Raised in Houston, Texas, Judy Wen participated in and held office for numerous of community organizations throughout the city including Girl Scouts of America, The American Red Cross, Chinese Youth Society and several others, earning her several honorable awards. Judy received her Bachelor of Business in Management Information Systems in 2002 and her Master of Business Administration from the University of Houston in 2005. She is currently a MIS Engineer at Applied Optoelectronics, Inc.

Judy has volunteered for the Association of Chinese American Professionals (ACAP) for the past eight years, progressing from an event volunteer to being a part of the ACAP conference logistics team and co-chair of ACAP's scholarship program.



Leadership Scholarship Recipient

Jaye Wong

Jaye Wong is a senior from Kempner High School. As Ms. Wong's journey through Kempner High School is coming to an end, she has found her passion of becoming a pharmacist. Ms. Wong will be attending Northeastern University's six years guaranteed pharmacy program, where she hopes to gain insight into her future career. While attending the program, Ms. Wong hopes to continue her favorite activities such as attending church service, playing badminton, performing Japanese dance and volunteering with organizations such as Memorial Hermann Hospital and Silverado Nursing Home. She looks forward to the future and is truly thankful to the Association of Chinese American Professionals for giving her a bright start to the road ahead.



二零零八年科學工程技術研討會暨年會
2008 Science, Engineering and Technology Seminars (SETS)

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美南國建協進會

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休士頓華人專業協會

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駐休士頓台北經濟文化辦事處科技組
駐休士頓台北經濟文化辦事處商務組
休士頓華僑文教服務中心
中國石油公司 OPICOIL HOUSTON, INC
Lovett Homes
Formosa Plastics Corp., Texas
Floating Windfarms, LLC
ITRI International, Inc.

會長 林國強

會議主席 張濟群

二零零八年科學工程技術研討會暨年會
2008 Science, Engineering and Technology Seminars (SETS)

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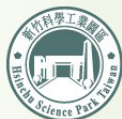
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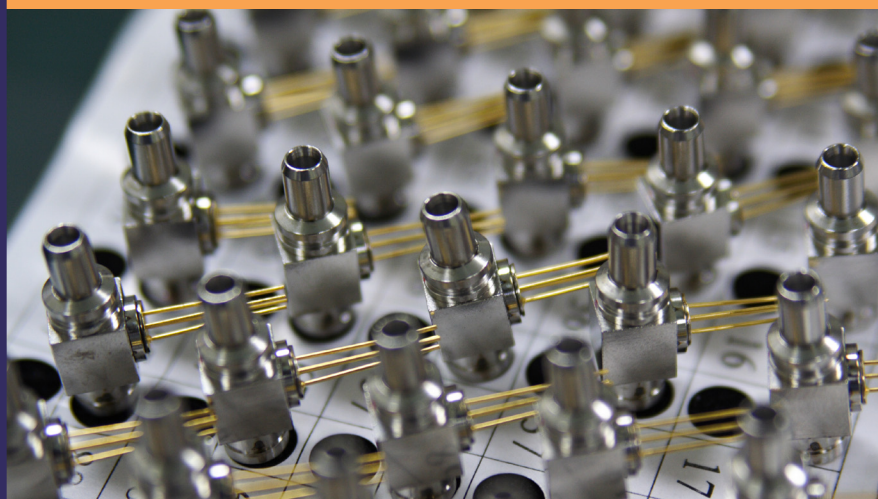


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