美南國建協進會

The Association of Chinese American Professionals

二零二五年科學工程技術研討會

2025

Annual Conference of Science, Engineering and Technology Seminars (SETS)

大會議程
Program

THEME:

Energy, Information Technology, Environmental Protection, Accounting, Health, Young Professionals Networking, Business Development, Professional Career Development

會議主題:

能源、資訊科技、環境保護、會計、健康
青年專業人士交流講座、商務、專業職涯發展講座

Saturday, June 7, 2025

Sugar Land Marriott
16090 City Walk, Sugar Land, Texas

www.acap-usa.org ACAP

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30016 新竹市新安路2號
Tel:886-3-5773311

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A Welcome Message from ACAP President

Welcome to the 47th Annual Science, Engineering, and Technology Seminars (SETS, 科學工程技術研討會), proudly organized by the Association of Chinese American Professionals (ACAP, 美南國建會) in collaboration with the conference organizing committee. We are honored to have you with us at this prestigious event, dedicated to fostering knowledge and driving innovation in science, technology, engineering, health, business, environmental protection, and education.

SETS underscores our steadfast dedication to fostering collaboration between Taiwan and the United States while promoting leadership and professional growth within Chinese American communities. Through this platform, we aim to empower and inspire both current and future generations, facilitating intergenerational knowledge transfer—a vital cornerstone for preserving ACAP's legacy and driving progress across these fields.

This year, we are honored to welcome Dr. Jacob Chen (陳振國), President of Foxconn University, as our distinguished keynote speaker. Dr. Chen's remarkable career seamlessly bridges academia and industry, showcasing his unwavering commitment to excellence. As a Fellow of IISE, WPSA, and CIIE, he has received prestigious accolades, including the Excellence in Productivity Improvement Award (2006) and the Outstanding Overseas Chinese Award (1995). His groundbreaking contributions continue to shape progress and innovation, and his expertise promises to illuminate future opportunities and challenges in artificial intelligence (AI) and digital transformation.

SETS would not be possible without the unwavering support of the Taipei Economic & Cultural Office (駐休士頓台北經濟文化辦事處), under the leadership of Director Yvonne Hsiao (蕭伊芳), the National Science and Technology Council (國家科學及技術委員會), and the Science and Technology Division, led by Director Pin-Chuan Chen (陳品銓). We also extend our heartfelt gratitude to our sponsors, partner organizations, and communities for their generous contributions, which have been instrumental in making this seminar a resounding success

We extend our heartfelt gratitude to Ya-Ling Chuang (莊雅玲), ACAP President-Elect, for her exceptional leadership. We also commend Cecil Fong (方宏泰) and Daniel Chen (陳皇序) for their extraordinary efforts in organizing the Empower Summit, which successfully gathered over two hundred participants to explore the theme "Embracing Changes & Building Futures Together." Our sincere thanks go to ACAP's Officers, including Minnie Tsai (蔡米惠), Stephen Huang (黃壽萱), Frank Lin (林國強), Betty Tung (閻寶印), and Paul Liou (劉志忠), whose invaluable guidance has been instrumental in shaping ACAP's vision and trajectory.

Thank you for being part of this milestone event. Together, let us celebrate the spirit of collaboration, innovation, and knowledge-sharing as we work toward a brighter future in scientific and technological advancements. We hope you find the program inspiring and look forward to engaging in meaningful exchanges throughout the day.

Best regards,

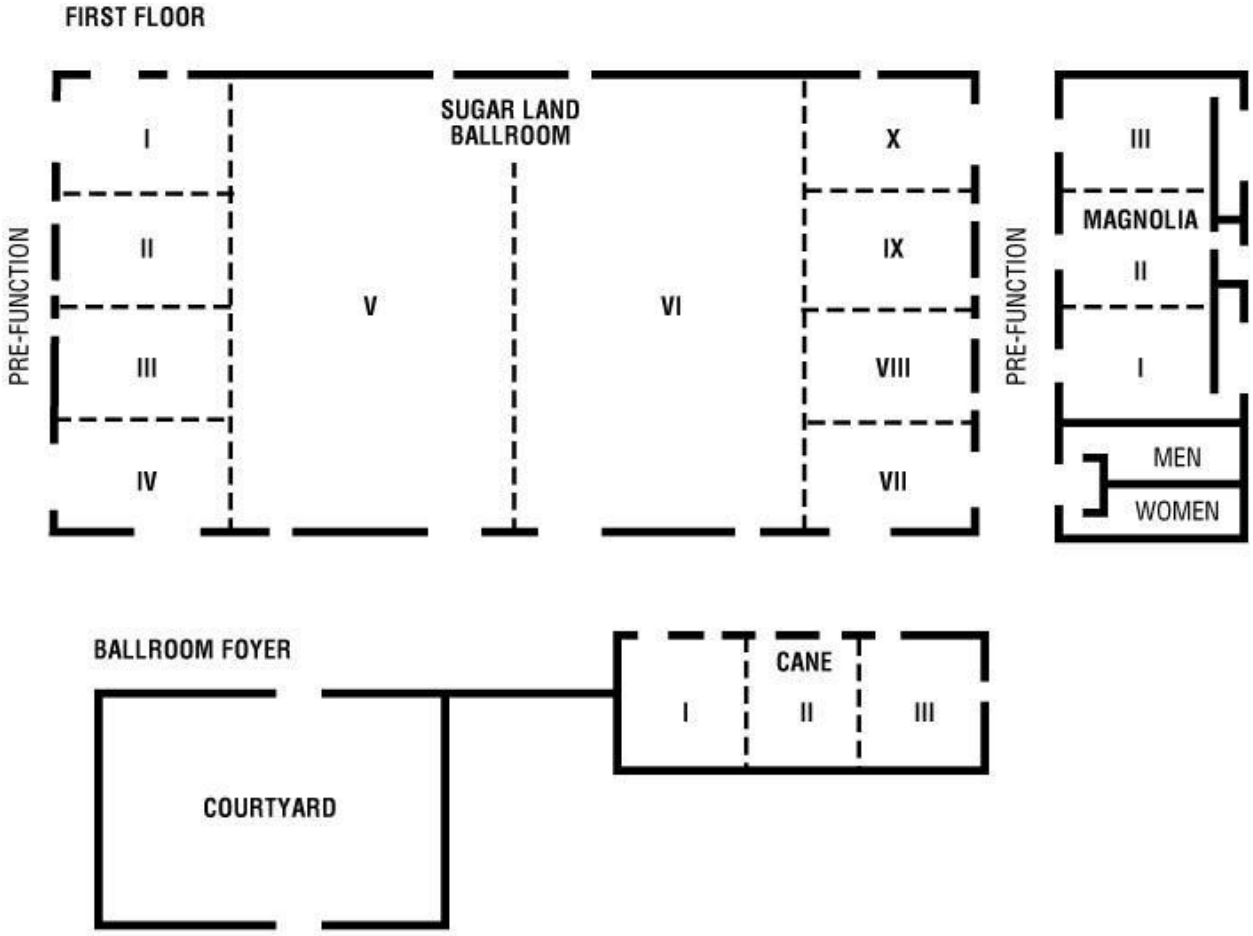
Eddy Lee (李怡德)
ACAP President 2024-2025

二零二五年科學工程技術研討會
2025 Science, Engineering and Technology Seminars (SETS)
Program-at-a-Glance

Time	Program	Room
7:30 am – 9:00 am	Speakers and Chairs Breakfast	Cane I
7:30 am – 2:30 pm	Registration	Ballroom Foyer
Morning Concurrent Sessions		
8:00 am – 11:45 am	Accounting, Tax, and Financial Session (財務，稅務和金融專業會計師講座） 休士頓華人會計師協會(HSCACPAs)協辦	Ballroom III-IV
10:30 am – 11:45 am	Business Development Session (商務講座) Economic Division, Taipei Economic and Cultural Office In Houston經文處經濟組協辦	Ballroom X
8:00 am – 11:45 am	Environmental Protection Session (環境保護講座)	Ballroom IX
9:30 am – 11:45 am	Young Professionals Networking Session (青年專業人士交流講座) Joint Chinese College Alumni Association of Southern USA (JCCAA) 美南大專院校聯合校友會協辦	Ballroom VII-VIII
Lunch Session		
12:00 am – 12:45 pm	Luncheon and Award Ceremony (午餐及頒獎)	Ballroom V-VI
12:45 pm – 2:15 pm	Keynote Address (專題演講)	
Afternoon Concurrent Sessions		
2:30 pm – 5:30 pm	Information Technology Session (資訊科技講座) 休士頓華商經貿聯合會(FCTAGH)協辦	Ballroom III-IV
2:30 pm – 5:30 pm	Energy Session (能源講座) 美國華人石油協會(CAPA)協辦	Ballroom VII-VIII
2:30 pm – 5:30 pm	Professional Career Development Session (專業職涯發展講座) Education Division, Taipei Economic and Cultural Office in Houston 經文處教育組協辦	Ballroom IX
2:30 pm – 5:30 pm	Health Session (健康講座)	Ballroom X

二零二五年科學工程技術研討會
2025 Science, Engineering and Technology Seminars (SETS)

Sugar Land Marriott Floor Plan



Session Schedule

Time	Session	Room
8:00 am – 11:45 am	***Accounting, Tax and Finance Session*** **會計，稅務，財務講座** **Houston Society of Chinese American CPAs (HSCACPAs)** **休士頓華人會計師協協辦**	**Ballroom III-IV**
Co-Chairs	**Jessica Huang (黃曉鈴), CPA, MCBU NOJV Financial Analyst of Chevron** **Ya-Ling Chuang (莊雅玲), CPA, VP/Controller/Accounting of Unity National Bank of Houston**	
Speaker ***Topic***	**Abdulsabur (Dippo Bello),** CPA, EVP/CFO of Unity National Bank of Houston **Purpose, People, Process: Choose Your Battlefield (目的、人員、流程：選擇你的戰場)**	
Speaker ***Topic***	**Keith Lam,** AVP/Treasure Officer of Golden Bank, N.A. **Small Business cash management strategy and preparation (小型企業現金管理策略與準備)**	
Speaker ***Topic***	**Ya-Ling Chuang (莊雅玲), CPA,** VP/Controller/Accounting of Unity National Bank of Houston **How to utilize financial institutions or governmental resources to face the liquidity challenges from current floating tariffs between countries (如何利用金融機構或政府資源來應對當前各國浮動關稅所帶來的流動性挑戰)**	
Note: Sign in, sign out and complete the evaluation forms are required for up to 8 CPE hours. Please attend the afternoon Information Technology Session to obtain the full 8 CPE hours. If you cannot attend the afternoon session, you could still earn 4 CPE hours for the morning session. **簽到、簽退並完成評估表可獲得最多8小時的CPE學時。請參加下午的信息技術會議以獲得 完整的8小時CPE學時。如果您無法參加下午會議，您仍然可以通過上午的會議獲得4小時 的CPE學時**		
10:30 am – 11:45 am	***Business Development*** **商務講座** **Economic Division, Taipei Economic and Cultural Office in Houston 經文處經濟組協辦**	**Ballroom X**
Chair	**Kenneth Li (李雄),** Broker, CCIM, CIPS, President, Southwest Realty Group; Chairman, Southwest Management District; Commissioner of Houston Housing Authority	
Speaker ***Topic***	**Bochia Ni (倪伯嘉 組長),** PhD, Director of the Economic Division at the Taipei Economic and Cultural Office in Houston **Doing Manufacturing in Houston (在休斯敦從事製造業)**	
Speaker ***Topic***	**Kenneth Li (李雄),** Broker, CCIM, CIPS, President, Southwest Realty Group; Chairman, Southwest Management District; Commissioner of Houston Housing Authority **Houston Commercial Real Estate Market, either Housing or Industrial Overview and Forecast (休斯敦商業房地產市場：住房或工業的概覽與預測)**	
8:00 am – 11:45 am	***Environmental Protection Session*** **環境保護講座**	**Ballroom IX**
Chair	**Edward T. Chen (陳天生),** President of Chinese American Society of Environmental Protection & Safety, Houston, Texas	
Speaker ***Topic***	**Vance Nobe**, CEO, Akari Energy, Houston, Texas **The Growth of Solar Power in the USA and Akari Energy in the past 15 years (過去十五年美國太陽能的成長與 Akari Energy 的發展)**	

Speakers ***Topic***	**Chi-Chung Chang (張濟群),** PhD, CPD Consultants, and Adjunct Faculty, University of Houston **Jonathan Greene**, PE, CPD Consultants **Wind Disaster Impact and Lesson Learn for 2024 Storms in Great Houston Area (2024 年大休斯頓地區風災影響與教訓)**	
Speaker ***Topic***	**Doug Coenen** PE, ENV SP, Walter P. Moore Engineering **Engineering Design for Concrete Pavement -Case Studies and Lesson Learned (混凝土路面工程設計-案例研究與經驗教訓)**	
Speaker ***Topic***	**Clifford C. Lee (黎靖宇),** PhD, Lee Plastics Consulting, Pearland, Texas **Polyolefin Technologies and plastic circularity opportunities and Challenges (聚烯烴技術與塑料循環利用的機會與挑戰)**	
Speaker ***Topic***	**Michael Liu (劉志恆), President,** American P&G Corp, Houston, Texas **Usage of Fly Ash from Flue Gas Desulfurization to Make Compositions for Building (利用煙氣脫硫產生的飛灰製作建築材料的組合物)**	
9:30 am – 11:45 am	***Young Professionals Networking Session*** **青年專業人士交流會** **Joint Chinese College Alumni Association in Southern USA (JCCAA) 美南大專院校聯合校友會協辦**	**Ballroom VII-VIII**
Co-Chairs	**Amy Ku, PhD (辜千慈), Scientist, Baylor College of Medicine** **Pei-Kuan (Peggy) Chiu (邱佩冠), Vice President of JCCAA**	
Speakers ***Topic***	**Steven Wang (王司文)**, PhD, Keller Williams Realty Metropolitan **Jutien Hsieh (謝睿恬)**, PE, MBA, Vice President, Booth & Associates, LLC **Powering Up Your Career with Mentorship (良師益友相伴成長)**	
12:00 pm – 2:15 pm	***Luncheon and Award Ceremony*** **午餐及頒獎** ***Keynote Address*** **專題演講**	**Ballroom V-VI**
12:00 pm –12:45 pm **12:45 pm – 2:15 pm**	**Welcome Remarks: Ya-Ling Chuang (莊雅玲), ACAP President Elect** **Opening Remarks: Yvonne Yi-Fang Hsiao 蕭伊芳 處長, Director General, Taipei Economic and Cultural Office in Houston Luncheon** **Outstanding Service Award: Yen Ting (Irene) Chen (陳妍婷)** **Keynote Speaker: Jacob Chen (陳振國 校長), PhD, IISE Fellow, WPSA Fellow, CIIE Fellow** **President, The Foxconn University (富士康大學)** **Topic: The Journey of Accelerating Imagination in the Era of AI and Digital Transformation (AI與數位轉型世代的加速想像力之旅)**	
2:30 pm – 5:30 pm	***Information Technology Session*** **資訊科技講座** Federation of Chinese Traders Alumni Greater Houston (FCTAGH) **休士頓華商經貿聯合會協辦**	**Ballroom III-IV**
Chair	**Stephen Huang (黃壽萱教授)**, PhD, Professor, University of Houston	
Speaker ***Topic***	**David Chang (張德仁),** Chief Digital Officer, EIQdigital **The Evolution of Al and Digital Transformation: A Look at Real-World Changes (人工智慧的演變與數位轉型: 展望現實世界的變化)**	

Speaker	**Jacob Chen (陳振國校長),** PhD, President, The Foxconn University (富士康大學)	
Topic	**Extension Talk: The Journey of Accelerating Imagination in the Era of AI and Digital Transformation (延伸講座：AI與數位轉型世代的加速想像力之旅)**	
Speaker	**Stephen Huang (黃壽萱教授)**, PhD, Professor, University of Houston	
Topic	**Digital Jungle: Staying Safe from Spams, Scams, and Security Threats (數位世界叢林: 從垃圾郵件、詐騙和網路安全威脅中避險)**	
2:30 pm – 5:30 pm	***Energy Session*** **能源講座** **Chinese American Petroleum Association (CAPA)** **美國華人石油協會協辦**	**Ballroom VII-VIII**
Co-Chairs	**Tzu-hao Yeh (葉子豪),** PhD, Reservoir Engineer, Shell Oil Company **Chih-Cheng Lin (林志成)**, Principal Production Engineer, Shell Oil Company	
Speaker	**Chuen Song Chen,** PhD, Data Scientist, Shell Global Solutions (US) Inc.	
Topic	**Machine Learning Applications for Subsurface and Well (機器學習在地層與油井中的應用)**	
Speaker	**Xuejia Du,** Ph.D., Postdoctoral Fellow at University of Houston	
Topic	**Development of Advanced Machine Learning Models for Predicting CO2 Solubility in Brine (先進的機器學習模型以預測二氧化碳在鹽水中的溶解度的發展)**	
Speaker	**Chih-Cheng Lin,** Principal Production Engineer, SME – Shell Oil Company	
Topic	**Water Flooding Cases in GoM – Enhancing Oil Recovery (墨西哥灣的注水案例—提高石油採收率)**	
2:30 pm – 5:30 pm	***Professional Career Development Session*** **專業職涯發展講座** **Education Division, Taipei Economic and Cultural Office in Houston 經文處教育組協辦**	**Ballroom IX**
Co-Chairs	**Paul Liou (劉志忠)**, ACAP 38th President (2022-2023) **Emcee: Pei-Ching Tai. (戴珮青),** PhD, FASCA Advisor **Honorable Guest: William Chien (錢懋曾)**, PhD, ACAP 6th President (1986-1987)	
Speaker	**Y. Vani Rao,** Executive Coach, VTK Consulting, Houston, Texas	
Topic	**Delivering Impactful Presentations (打造具影響力的簡報)**	
2:30 pm – 5:30 pm	***Health Session*** **健康講座**	**Ballroom X**
Chair	**Hue-Teh Shih (施惠德 醫師),** MD, MPH, Cardiac Electrophysiology	
Speaker	**Kang-Lin Hsieh, PhD (謝岡霖 醫師)** MD Anderson Cancer Center	
Topic	**AI Virtual Cells: A Multi-Agent Deep Learning Approach for Modeling Cellular Perturbations (AI虛擬細胞：基於多代理深度學習的細胞擾動建模方法)**	
Speaker	**Hue-Teh Shih (施惠德醫師)**, MD, MPH, Cardiac Electrophysiology	
Topic	**Artificial Intelligence in Cardiology (人工智慧在心臟病學中的應用)**	
Speaker	**Chun-Teh Lee (李俊德 醫師),** DDS, MS, DMSc. UTHealth Houston School of Dentistry	
Topic	**The AI Revolution: How AI Changes Daily Routines and Dentistry (人工智慧革命：人工智慧如何改變日常生活及牙科領域)**	

Honorable Guest

Yvonne Hsiao (蕭伊芳處長)
Director General, Taipei Economic and Cultural Office in Houston
駐休士頓台北經濟文化辦事處

Education
BA in Foreign Languages and Literature, National Taiwan University

Experience
- Deputy Director General, Department of International Cooperation and Economic Affairs, MOFA (2023.02- 2023.07)
- Deputy Director General, Department of International Organizations, MOFA (2020.08- 2023.02)
- Chief Secretary, Institute of Diplomacy and International Affairs, MOFA (2020.01- 2020.08)
- Deputy Counselor on Home Assignment, Department of International Organizations, MOFA (2019.07- 2019.12)
- Director/ Deputy Executive Director, Taipei Economic and Cultural Office in Australia (2013-2019)
- Section Chief, Division of Document Authentication, Bureau of Consular Affairs, MOFA (2010-2013)
- Second Secretary on Home Assignment, Department of East Asian and Pacific Affairs, MOFA (2009-2010)
- Secretary, Taipei Economic and Cultural Office in New York (2004-2009)
- Desk Officer, Ministry of Foreign Affairs, Republic of China (2000-2004)

Keynote Speaker

Jacob Chen(陳振國博士), Ph.D., IISE Fellow, WPSA Fellow, CIIE Fellow
President, The Foxconn University

Education

1987 Ph.D., Industrial Engineering, University of Oklahoma
1983 M.S., Industrial Management, University of Central Missouri
1978 B.S., Biology, National Taiwan Normal University

Industry Experience

2024-present President, Foxconn University
2001-2023 Vice Chairman of Hon Hai/Foxconn, Board Member of Hon Hai Chairman of SMART Tech, General Manager of B Group and H Group Group Chief HR Officer, Chairman of Corporate Social Responsibility Committee, CEO of Hon Hai Education Foundation

Experience

1998-2000 Professor and Dean, College of Science and Engineering, University of Texas – Pan American (UT-Rio Grande Valley)
1987-1998 Assistant Professor, Associate Professor/Professor and Chairman, Department of Industrial Engineering, University of Houston
1981-1982 Science Teacher, Hsi-Nan Junior School, Taichung, Taiwan, ROC
1978-1979 Science Teacher, Xin-Zhong Junior School, Taichung, Taiwan, ROC

Honors

2007 Fellow, Institute of Industrial and System Engineers (IISE)
2006 Fellow, World Productivity Science Academy (WPSA
2006 Excellence in Productivity Improvement Award, IISE
1995 Outstanding Overseas Chinese Award, Taiwan, ROC

Outstanding Service Award

Yen Ting (Irene) Chen (陳妍婷)

Yen Ting (Irene) Chen has been a dedicated member of ACAP since 2019, serving as the organization's Executive Secretary. In this key leadership role, she has made substantial contributions to advancing ACAP's mission and expanding its programs. Irene has been instrumental in supporting the Science, Engineering, and Technology Seminars (SET), one of ACAP's flagship initiatives. Her efforts in registration coordination, marketing outreach, media management, website content, and poster design have significantly enhanced the event's visibility and operational efficiency. Her work ensures a seamless and engaging experience for attendees and partners alike.

Irene holds a double Bachelor of Business Administration degree in Supply Chain Management and Management Information Systems, bringing a valuable combination of strategic and technical expertise to her volunteer leadership. Recognized for her professionalism, creativity, and unwavering dedication to community service, she remains a highly respected and integral member of the ACAP leadership team.

Abstracts and Session Speakers Information

8:00 a.m. – 11:45 am.	***Accounting, Tax and Finance Session* (會計, 稅務, 財務講座)** **Houston Society of Chinese American CPAs (HSCACPAs)** **休士頓華人會計師協協辦**
Co-Chairs:	**Jessica Huang (黃曉鈴), CPA, MCBU NOJV Financial Analyst of Chevron** **Ya-Ling Chuang (莊雅玲), CPA, VP/Controller/Accounting of Unity National Bank of Houston**

Speaker: Abdulsabur (Dippo Bello), CPA, EVP/CFO of Unity National Bank of Houston
Topic: Purpose, People, Process: Choose Your Battlefield
目的、人員、流程：選擇你的戰場

Abstract: In the ever-evolving landscape of leadership and decision-making, understanding the interplay between Purpose, People, and Process is critical. This framework challenges individuals to identify their primary battleground—whether it is refining strategy (Purpose), empowering teams (People), or optimizing execution (Process). Each battlefield presents unique opportunities and obstacles, requiring leaders to adapt their approach.
A purpose-driven leader prioritizes vision and impact, ensuring that every action aligns with long-term goals. Those focused on people champion culture, collaboration, and motivation, recognizing that success depends on engaged and capable teams. Meanwhile, process-oriented individuals emphasize efficiency, structure, and innovation, refining operations for maximum effectiveness.
Choosing the right battlefield is not about exclusion but balance. Mastering the dynamics between Purpose, People, and Process allows leaders to make informed decisions, foster resilience, and drive meaningful outcomes. The challenge lies in recognizing where to fight—and where to build.

About the Speaker: Experienced and tested professional with functional knowledge of business and financial practices in diversified companies in the Manufacturing, Oil & Gas, and Energy industries handling General Accounting, Reconciliations, Account Close, Consolidations, GAAP Reporting, SOX Compliance, Budget and Variance Analysis; Reporting and the Implementation of ERP systems such as SAP, Oracle Financials, JD Edwards and HFM with the following value-adding core competencies: strategic thinking, financial analysis, team building, research issues, project management, client focus, leveraging technology, regulatory perspective, and international exposure.

Speaker: Keith Lam, AVP/Treasure Officer of Golden Bank, N.A.
Topic: Small Business cash management strategy and preparation
小型企業現金管理策略與準備

Abstract: Effective cash management is the backbone of small business sustainability and growth. A well-defined strategy ensures financial stability, allowing businesses to navigate uncertainties, seize opportunities, and optimize operations.
Cash flow management begins with forecasting—predicting income and expenses to

maintain liquidity. Budgeting and expense control help prevent unnecessary financial strain, ensuring resources are allocated efficiently. Diversifying revenue streams and maintaining emergency funds provide additional security against unforeseen disruptions.

Preparation is equally vital. Businesses must establish clear payment policies, negotiate favorable terms with suppliers, and leverage digital financial tools for automation and tracking. Access to flexible financing options, such as lines of credit or small business loans, can prevent cash shortages.

Ultimately, mastering cash management empowers businesses to remain agile, to reduce financial risks, and to support long-term success. A proactive approach ensures stability in a competitive market while enabling smart investments for future growth.

About the Speaker: Keith Lam graduated from Utah State University - Jon M. Huntsman School of Business. He obtained Utah State University Bachelor of Science for Accountancy in 2006 and Master of Business Administration in 2009. He is currently AVP/Treasury Officer of Golden Bank, N.A. (GBNA). Before that, he was Senior Accountant of GBNA. He was staff auditor at KPMG during 2016 to 2018.

Speaker: Ya-Ling Chuang, CPA, VP/Controller/Accounting of Unity National Bank of Houston

Topic: How to utilize financial institutions or governmental resources to face the liquidity challenges from current floating tariffs between countries

如何利用金融機構或政府資源來應對當前各國浮動關稅所帶來的流動性挑戰

Abstract: Navigating liquidity challenges caused by fluctuating international tariffs requires strategic financial planning and leveraging institutional and governmental resources effectively. Businesses facing uncertainty due to tariff shifts must adopt a multi-layered approach to maintain financial stability.

Financial institutions offer tools such as trade financing, credit lines, and hedging solutions to mitigate short-term liquidity risks. Leveraging instruments like letters of credit and currency hedging can help businesses manage cash flow disruptions caused by unpredictable tariff adjustments. Additionally, establishing strong banking relationships provides access to tailored financial support.

Governments often provide subsidies, grants, and tariff relief programs to assist affected industries. Companies should actively engage with export credit agencies, trade assistance programs, and tax incentives to offset rising operational costs. Furthermore, collaborating with industry associations can help businesses advocate policy adjustments that reduce financial strain.

By integrating institutional financial tools with governmental support, businesses can build resilience against volatile trade conditions and sustain long-term growth.

About the Speaker: Ya-Ling (Ambrosia) Chuang has been a CPA since 2007 with years of finance and accounting experience gained through working in the banking industry. Ambrosia has started serving Unity National Bank of Houston (UNBH) as VP/Accounting/Controller 2021. She holds an MBA, MSA from the University of Houston (2003) and BBA in International Trade from TamKang University (2000).

Ambrosia actively volunteers and participates in local community activities such as Association of Chinese American Professionals (ACAP), HSCACPAs and TACPA. She serves as current President Elect for ACAP, Vice President for TACPA during the 2019-2020 session.

Note: Sign in, sign out and complete the evaluation forms are required for up to 8 CPE hours. Please attend the afternoon Information Technology Session to obtain the full 8 CPE hours. If you cannot attend the afternoon session, you could still earn 4 CPE hours for the morning session.

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10:30 a.m. – 11:45 am.	***Business Development Session* (商務講座)** **Economic Division, Taipei Economic and Cultural Office in Houston** **駐休士頓台北經濟文化辦事處經濟組協辦**
Chair:	**Kenneth Li (李雄)**

Speaker: Bochia Ni, PhD（倪伯嘉）Director of the Economic Division at the TECO Houston
Topic: Doing Manufacturing in Houston
如何在休士頓從事製造業

Abstract: Houston, Texas, is a thriving hub for manufacturing, offering businesses a strategic location, strong infrastructure, and a skilled workforce. As one of the largest industrial centers in the United States, Houston provides access to global trade routes, advanced logistics networks, and abundant natural resources, making it ideal for various manufacturing sectors, including energy, aerospace, petrochemicals, and medical technology. It was Compaq headquarters and attracted Taiwan EMS companies to set up manufacturing sites here.

The city's pro-business environment, coupled with tax incentives and government support, encourages innovation and expansion. Additionally, Houston boasts a highly specialized talent pool, reinforced by world-class educational institutions and technical training programs. Its proximity to the Port of Houston—one of the busiest in the U.S.—enhances supply chain efficiency and international trade opportunities.
However, manufacturers must navigate challenges such as fluctuating material costs, environmental regulations, and evolving technological demands. By leveraging local resources, financial incentives, and industry partnerships, businesses can drive sustainable growth and remain competitive in Houston's dynamic manufacturing landscape.

About the Speaker: Dr. Bochia Ni serves as the Director of the Economic Division at the Taipei Economic and Cultural Office (TECO) in Houston. His role involves fostering economic collaboration between Taiwan and the southern United States, including Texas, Louisiana, Mississippi, Arkansas, and Oklahoma.

Prior to Houston, Dr. Ni has been posted in New York and Hong Kong and worked in Taiwan Ministry of Economic Affairs in Taipei for 24 years

Speaker: Kenneith Li (李雄) Broker/Owner of Southwest Realty Group and Chairman of the Southwest Management District

Topic: Houston Commercial Real Estate Market, either Housing or Industrial Overview and Forecast
休斯敦商業房地產市場：住房或工業的概覽與預測

Abstract: Houston's commercial real estate market remains a dynamic sector, driven by population growth, economic expansion, and evolving industry trends. The housing market has seen fluctuations, with affordability challenges counterbalanced by high demand in suburban areas. Rising interest rates and inflation continue to influence buyer sentiment and investment strategies. Meanwhile, the industrial real estate market benefits from Houston's strong logistics network, proximity to major ports, and growing demand for distribution centers, fueled by e-commerce and energy sector expansions.

Looking ahead, the housing market may experience stabilization as interest rates adjust, while industrial developments, especially warehouse and manufacturing spaces, are expected to see continued growth due to infrastructure investments and shifting supply chain strategies. However, both sectors face challenges such as rising construction costs and regulatory adjustments.

Understanding Houston's real estate trajectory requires balancing macroeconomic influences, local market trends, and strategic opportunities.

About the Speaker: Kenneth Li is the Founder/ President of Southwest Realty Group, a full service real estate firm in Houston, Texas, since 1988. Throughout the thirty-five years of his professional career, he has been committed to excellence in real estate development for community. Mr. Li is a real estate specialist, developer, and consultant. He was commended as a pioneer of Chinatown by the Houston Chronicle, which stated that he was the real estate broker who aided the community's growth and used his success there as an entry into the mainstream in both residential and commercial real estate. Houston Mayor Turner, Congressman Green, KHOU 11, Texas Monthly, and Real Estate Directory News named Kenneth Li as Houston Chinatown's "Mayor". Long active in public affairs in the local community, Mr. Li served as the 2011 National Chairman of the Asian Real Estate Association of America, Chairman of the Asian Chamber of Commerce, President of the Houston Taiwanese Chamber, and Chairman of the Chinese Community Center (CCC). Houston Mayors appointed him to serve as the first Asian American board member of the City Planning Commission, Asian Advisory Board to the Houston Police, SW Houston Redevelopment Authority (TIRZ#20) board member, Southwest Management District Chairman, and Houston Mayor International Trade Development Council/Asia & Australia. International Advisory Council member, Houston AAPI Advisory Board, Committee Chair of its Safety/ Business Development. Mayor John Whitmire appointed him to serve as a Houston Housing Authority Commissioner in 2024.

8:00 a.m. – 11:45 am.	***Environmental Protection Session*** **(環境保護講座)**
Chair:	**Edward T. Chen (陳天生), President, Chinese American Society of Environmental Protection & Safety, Houston, Texas**

Speaker: Vance Nobe, CEO, Akari Energy, Houston, Texas
Topic: The Growth of Solar Power in the USA and Akari Energy in the past 15 years
過去十五年美國太陽能的成長與 Akari Energy 的發展

Abstract: In the last 15 years, solar power generation in the United States has experienced incredible growth. Back in 2008, the country had only about one megawatt (MW) of solar power capacity. By 2023, that number skyrocketed to approximately 179,000 MW of solar photovoltaic (PV) capacity. This rapid expansion marks a pivotal shift in the nation's energy landscape, with solar energy emerging as a key player in the move toward cleaner, renewable power.

Akari Energy, a company that has played a crucial role in this transformation, has also seen its own impressive growth. When Akari Energy launched 15 years ago, its first project had a modest 33-kilowatt (kW) capacity. At the time, the capital investment for such a project was in thousands of dollars. Today, the company is working on a much larger-scale project with a 400 MW capacity, with plans for an even bigger 910 MW project in the works. These projects not only represent significant increases in scale but also demonstrate the growing financial commitment required for modern solar energy ventures.

Despite these advancements, solar power still accounts for only about 7% of the total electricity generated in the U.S. This highlights the vast untapped potential of solar energy in the country. While the growth so far has been extraordinary, there is still much room for expansion, and efforts are needed to further integrate solar energy into the national grid.

About the Speaker: Vance Nobe is President, CEO and Founder of Akari Energy which was established in 2008 in Houston, Texas. His combination of management, sales, and technical expertise has driven Akari Energy's growth and profitability over the past 14 years. As CEO/President of Akari Energy, he has developed relationships with landowners in rural areas throughout the United States. He has also cemented relationships with long-term clients such as Rice University and RMS Foods. Mr. Nobe is also board certified by the North American Board of Certified Energy Practitioners (NABCEP) as a solar PV Installation Professional.

Mr. Nobe is a published photographer for his pictures of the Totonac burial sites in central Mexico. These photos are now in two academic textbooks, which were the first ever published pictures of these tombs. Also, he was on an episode of Animal Planet: Animal Cops Houston, for his adoption of a canine in dire need. He has a Bachelor of Science degree in Electrical Engineering, Power Emphasis, from the California Polytechnic University at Pomona in California. Prior to his engineering studies, while he attended high school, he also attended UC Berkeley in Biophysics under the Accelerated High School Student Program. He also has a MIT Sloan Certificate in Blockchain Technology.

Speakers: Chi-Chung Chang (張濟群), PhD, Principal, CPD Consultants; Adjunct Faculty, University of Houston, Houston, Texas
Jonathan Greene, PE, CPD Consultants, Houston, Texas
Topic: Wind Disaster Impact and Lesson Learn for 2024 Storms in Great Houston Area
2024 年大休斯頓地區風災影響與教訓

Abstract: In 2024, Houston experienced two significant wind events.

May 2024 Derecho

From May 16 to May 17, 2024, a powerful derecho—a widespread, long-lived windstorm—swept through Southeast Texas, particularly impacting Houston. Wind gusts reached up to 100 mph in downtown Houston, resulting in extensive damage:

- Structural Damage: High-rise buildings suffered significant harm, with approximately 4,000 windows shattered.
- Casualties: The storm tragically claimed the lives of eight individuals in the Greater Houston area.
- Power Outages: Over a million customers lost electricity, with some enduring outages for more than a week amid high temperatures.

The total damage from this event was estimated at over $1 billion.

July 2024 Hurricane Beryl

On July 8, 2024, Hurricane Beryl made landfall near Matagorda, Texas, as a Category 1 hurricane with sustained winds of 80 mph. The storm's impact on Houston included:

- Casualties: At least 20 deaths in Harris County, primarily due to heat-related issues from prolonged power outages.
- Economic Impact: AccuWeather estimated total U.S. economic losses around $30 billion, with a significant portion in Texas.
- Power Outages: Approximately 2.7 million households and businesses in the Houston area experienced prolonged outages, leading to widespread criticism of CenterPoint Energy's response efforts.

Combined Impact

These events highlighted vulnerabilities in Houston's infrastructure, particularly concerning skyscraper resilience to varying wind patterns and the need for improved power grid reliability during extreme weather conditions.

About the Speaker: Dr. Chang (張濟群) is a Principal consultant for CPD Consultants. Dr. Chang has over 40 years of experience in managing and conducting architectural planning, engineering design, construction management, and sustainability and resilient planning projects for local, state and federal agencies, health care institutions, education and research institutions as well as Fortune 100 firms. He is currently teaching construction management at the University of Houston. He is also an adjunct faculty member of the School of Architect at Prairie View A&M University. His diversified technical background and strong management skills grant him the privilege to lead multi-disciplined project teams and

subcontractors to provide cost effective solutions to our clients. He received his master's degree from Oklahoma State University in 1985 and his PhD degree from Rice University in 1990.

About the Speaker: Mr. Jonathan Greene is Principal Engineer at CPD Consultants. He is a highly skilled Environmental project engineer with over 50 years of experience in Projects involving Complex Mission Critical Facilities. As an Environmental Engineer Mr. Greene brings multi- faceted experience to ensure the success of the Environmental Design Tasks for Projects. He graduated from Yale University, New Haven Conn. With Bachelor of Arts (BA) in 1964, He also received his Master of Science (MSCE) in 1969 from Columbia University, NY.

Speaker: Doug Coenen PE, ENV SP, Walter P. Moore Engineering
Topic: Design for Concrete Pavement -Case Studies and Lesson Learned
混凝土路面工程設計–案例研究與經驗教訓

Abstract: Concrete pavement is a critical component of transportation infrastructure, providing durable and long-lasting surfaces for highways, streets, and industrial applications. Despite its advantages, engineering design challenges and construction issues can impact pavement performance. This document presents case studies highlighting key design aspects, construction considerations, and lessons learned from real-world concrete pavement projects.

Concrete pavement engineering requires a balance of material science, structural analysis, and environmental considerations. By learning from past projects, engineers can optimize designs to improve pavement longevity, reduce maintenance costs, and enhance sustainability. Future advancements in materials and construction techniques will continue to shape the development of more resilient and efficient pavement systems.

About the Speaker: For Walter P Moore Doug leads the civil engineering group for forensic engineering and federal projects. He has specialties associated with design associated with drainage, flooding, flood protection, pavement, and utilities. His diverse range of design experience includes civil/site design; geometric and vertical design of roadways; water main and sanitary sewer main design; hydrology and hydraulics including storm drain design, detention ponds; and erosion control, signing, and striping layout. Doug has designed federal, state, municipal, and private infrastructure engineering projects including facility upgrades and rehabilitation. He received his Master of Science in Environmental Engineering from Old Dominion University and a Bachelor of Science in Civil Engineering from George Mason University leading to his engineering licensure in Texas, Louisiana, Virginia, West Virginia, and North Carolina.

Speaker: Clifford C. Lee (黎靖宇), PhD, Lee Plastics Consulting, Pearland, Texas
Topic: Polyolefin Technologies and plastic circularity opportunities and Challenges
聚烯烴技術與塑料循環利用的機會與挑戰

Abstract: Plastics are considered one of the most important inventions of the 20th century. Their versatility, durability, and low cost have revolutionized many industries, including packaging, construction, automotive, electronics, and healthcare. Plastics have enabled advancements in

technology, medicine, and everyday convenience, making them integral to modern life.

Of today's 410 million tons of global plastics production, polyethylene and polypropylene together constitute about 50%. Both are extremely important in our daily lives in food packaging, textiles, automotive, household etc.

We will first review the fundamentals of these two polymeric materials including technologies and market trends. This enables us to understand why these materials are so useful and popular. With years of research in technologies and market development, plastics are performing better and better and most importantly so accessible and inexpensive.

Unfortunately, these have also resulted in litter, neglect, and abuse, thus generating the so called "plastic pollution."

In the past 5 years there have been significant efforts worldwide to mitigate this issue. We will review/analyze most of the major technical efforts to achieve plastic circularity: physical recycling, chemical recycling, upcycling, development of renewables, incinerating, landfill etc. Along the way we will also discuss the challenges facing us and how the international organizations such as AEPW and INC-6 are going to play out in 2025 and beyond.

About the Speaker: Dr. Lee is the founder of Lee Plastics Consulting in Houston, Texas. He earned his PhD in Chemistry from Rutgers University, followed by postdoctoral work in polymer research at Cornell and Purdue Universities. He has held positions with industrial companies such as Chevron Phillips, Solvay Polymers, LyondellBasell, and Formosa Plastics. He additionally possesses international consulting experience in market analysis and technology assessment with Chemical market Resources and Townsend Solutions. He has been an organizer with prominent conferences in the field and holds 13 US patents.

Speaker: Michael Liu (劉志恆), President, American P&G Corp, Houston, Texas

Topic: Usage of Fly Ash from Flue Gas Desulfurization to Make Compositions for Building
利用煙氣脫硫產生的飛灰製作建築材料的組合物

Abstract: Composition for building materials comprises of fly ash from flue gas desulfurization. The fly ash (β CaSO4 anhydrite), obtained from circulating fluidized bed flue gas desulfurization, is mixed with binder reactants at a ratio of 9:1. It's mainly used for non-structural cement mortar, bricks for paving walkways, brick wall decors, fire-resistant walls for interior partitions, plasterboards and so on. The binder reactants comprise 70% CaSO4.1/2H20, 10% Na2SO4, 10% CaO, 5% NaOH, 0-5% cement and 0-5% starch. When the binder reactants are mixed with fly ash and water (30% to 40% of the above total weight), the hydration process of CaSO4 anhydrite is accelerated.

About the Speaker: Michael Liu (劉志恆), is in business of water & wastewater treatment technology and environmental projects. He has a B.S. in Chemistry from Chinese Culture University, Taiwan, and M.S. degrees in Chemical Engineering from the University of New Mexico and Industrial Engineering from Southern Methodist University, Texas. He worked at Bechtel Corp. as a start-up engineer in the third Taiwan Nuclear Power project in 1984 and at Euroasia Corp. in Taiwan as a project manager in petrochemical projects until 1988. After

many years' expertise, he returned to the United States and founded America P & G Company, teaming up suppliers and contractors to work projects internationally. He successfully completed a hundred installations for water plants and wastewater treatments in the Far East Market. Currently, he is retired and lives in Sugar Land, Texas.

His efforts in helping the community can be seen through his services on the board of the Criminal and Public Safety with Houston-Galveston Area Council (H-GAC) for the City of Sugar Land Police Department, which funded millions of dollars each year for community crimes protection and safety enforcement in region of Houston-Galveston Area. He has also served on the board of the Friendship Committee of Fort Bend County and Global Initial of Fort Bend County Judge Committee, which supports the county in making international education and culture exchanges. To encourage citizens to vote and make mainstream connections, he is being elected as a GOP precinct chair in the Greatwood area. In past years, he has served as chair of the Chinese American Professional Association in 2005.

9:30 a.m. – 11:45 am.	***Young Professionals Networking Session* (青年專業人士交流會)** **Joint Chinese College Alumni Association in Southern USA (JCCAA) 美南大專院校聯合校友會協辦**
Co-Chairs:	**Amy Ku, PhD (辜千慈), Scientist, Baylor College of Medicine** **Pei-Kuan (Peggy) Chiu (邱佩冠), Vice President of JCCAA**

Speaker: Steven Wang (王司文), PhD, Keller Williams Realty Metropolitan
Jutien Hsieh (謝睿恬), PE, MBA, Vice President, Booth & Associates, LLC

Topic: Powering Up Your Career with Mentorship 良師益友相伴成長

Abstract: Mentorship catalyzes career growth, personal development, and professional success. In this dynamic networking session, Jutien Hsieh, PE, MBA, and Dr. Steven Wang, co-chairs of the 2025 JCCAA Mentorship Program, will lead an engaging discussion on the transformative power of mentorship. Joined by members of the 2025 mentorship class, they will share personal experiences, key insights, and success stories that highlight the invaluable role of mentorship in navigating career challenges and achieving professional goals. This session is designed for prospective mentors and mentees seeking to build meaningful connections, gain career guidance, and contribute to a thriving professional community. Whether you are looking to advance in your field or give back by guiding the next generation, this session will provide inspiration and practical strategies to help you power up your career through mentorship! Join us to connect, learn, and grow together!

About the Speaker: Jutien Hsieh is a seasoned leader in the power industry with 18 years of experience as a consulting engineer. Originally from Taiwan, she moved to the U.S. during high school and earned her B.S. in Electrical Engineering from the University of North Carolina at Charlotte. Early in her career, she was promoted to a supervisory role, demonstrating her leadership abilities. While working, she furthered her education by earning an MBA from Queens McColl Business School. Three years ago, Jutien relocated to Houston to establish and lead a new branch office

for Booth & Associates, overseeing all business operations. Beyond her professional achievements, she is also a dedicated mother to two wonderful young daughters.

About the Speaker: Jutien Dr. Steven Wang is a distinguished scientist turned real estate professional with a remarkable journey spanning academia and business. Born in Tainan, Taiwan, he earned his B.S. in Marine Biology from Chinese Culture University and an M.S. from National Taiwan University. He later pursued his Ph.D. at UC Davis, where his groundbreaking research in developmental biology earned national recognition and publication in the prestigious journal Development. Dr. Wang continued his scientific career at MD Anderson Cancer Center and later at UT Health Houston Medical School, where he led pioneering research in retinal regeneration for glaucoma treatment. In 2021, Dr. Wang transitioned to real estate, leveraging his analytical and leadership skills at Keller Williams. Passionate about helping Taiwanese newcomers settle and invest in Houston, Dr. Wang remains dedicated to guiding others toward success.

12:00 p.m. – 2:15 p.m.	***Luncheon and Keynote Address* (午餐專題演講)**
Master of Ceremonies:	**Ya-Ling Chuang, CPA (莊雅玲), ACAP President-Elect**

Speaker: Jacob Chen(陳振國), Ph.D., IISE Fellow, WPSA Fellow, CIIE Fellow
President, The Foxconn University

Topic: The Journey of Accelerating Imagination in the Era of AI and Digital Transformation
AI與數位轉型世代的加速想像力之旅

Abstract: Hon Hai/Foxconn is a global leader in electronic product design and manufacturing services, with a market share of 46.1% in the EMS sector. The speech will reflect on my work in the 1980s and 1990s at the University of Houston, focusing on teaching, research, and academic services related to expert systems and lean transformation. It then introduces the evolution of Foxconn's integration model of lean and digital transformation, emphasizing talent development and practical applications. The paper further explores Foxconn's smart manufacturing, intelligent electric vehicle (EV), and smart city platforms. It highlights Foxconn's comprehensive AI strategy, including the Genesis Intelligent Manufacturing Platform and its applications. Additionally, I will also discuss the key technologies and maturity evaluation systems of smart factories and WEF(World Economic Forum) Lighthouse factories, key components of Foxconn's advanced manufacturing. I will then introduce Foxconn's on-line training platform(富學寶典) to conclude my speech.

About the Speaker: 陳振國博士現任富士康大學校長,曾任鴻海董事,集團副總裁, SMART Tech董事長,集團總人資長,B次及H次集團總經理,鴻海教育基金會CEO,集團SER委員會主委等職位.榮獲WPSA Fellow,IISE Fellow, CIIE Fellow,及IISE Excellent in Productivity Improvement Award.曾任德州大學泛美分校 (現改名UT-Rio Grande Valley) 理工學院院長,休斯頓大學工業工程系教授兼系主任,任清華、華中科大等多所高校客座教授.

2:30 p.m. – 5:30 p.m.	***Information Technology Session* (資訊科技講座)** **Federation of Chinese Traders Alumni Greater Houston (FCTAGH)** **休士頓華商經貿聯合會協辦**
Chair:	**Stephen Huang (黃壽萱教授), PhD, Professor, University of Houston, Houston, Texas**

Speaker: David Chang（張德仁), Chief Digital Officer, EIQdigital
Topic: The Evolution of Al and Digital Transformation: A Look at Real-World Changes
人工智慧的演變與數位轉型：展望現實世界的變化

Abstract: The electricity industry is undergoing a profound transformation, driven by Al and digital technologies that are redefining how businesses operate and engage with consumers. As Chief Digital Officer at EIQdigital. David Chang is at the forefront of this evolution, leveraging Al- powered platforms to enhance efficiency, sustainability, and customer experience.

In this session, David will share how Al and data-driven strategies bring real impact to consumers. Through real-world applications and industry insights, this presentation will highlight the critical role of Al in modernizing energy operations, the opportunities it presents, and the challenges businesses must navigate to stay ahead in an increasingly Al-driven world. Attendees will gain valuable insights into how Al is not just reshaping energy but also setting new benchmarks for innovation and sustainability in the broader digital landscape.

About the Speaker: David Chang is a recognized expert in Al-driven digital transformation, with over 15 years of experience reshaping industries through technology. As Chief Digital Officer at EIQdigital, he drives the development of Al-powered solutions that optimize energy management, enhance customer engagement, and push the boundaries of digital innovation. Throughout his career, David has led transformative initiatives across startups and Fortune 500 companies, bridging the gap between advanced Al technologies and practical business applications. His expertise spans Al, data analytics, and digital strategy, making him a respected voice in the energy sector. Beyond his professional achievements, David is also known for his adventurous spirit as a private pilot, having completed over 450 touch-and-go flights over the last two years without crashing.

Speaker: Jacob Chen(陳振國), Ph.D., IISE Fellow, WPSA Fellow, CIIE Fellow
President, The Foxconn University

Topic: Extension Talk: The Journey of Accelerating Imagination in the Era of AI and Digital Transformation
延伸講座：AI與數位轉型世代的加速想像力之旅

Speaker: Stephen Huang (黃壽萱教授), PhD, Professor, University of Houston, Houston, Texas
Topic: Jungle: Staying Safe from Spams, Scams, and Security Threats
數位世界叢林：從垃圾郵件、詐騙和網路安全威脅中避險

Abstract: In our increasingly interconnected world, navigating the digital landscape can feel like traversing a dense jungle filled with hidden dangers. We face constantly evolving risks such as spam emails, phishing scams, fraudulent text messages, and more sophisticated cyber threats. Recently, there has also been a rise in scams targeting social media and mobile devices. This discussion aims to introduce the various types of digital threats with examples, provide insights on recognizing and avoiding scams, and share best practices for ensuring online security.

在我們日益緊密連結的世界中，行駛在數位環境中就像穿越充滿隱藏危險的茂密叢林。我們面臨不斷變化的風險，例如垃圾郵件、 網站釣魚詐騙、 欺詐型簡訊和更複雜的網路威脅。 最近針對社交媒體和行動裝置的詐騙也有所增加。本次討論旨在通過示例介紹各種類型的數字威脅，提供關於識別和避免詐騙的建議，並分享確保網路安全的最佳做法。

About the Speaker: Professor Stephen Huang received his BS in Mathematics from the National Cheng Kung University of Taiwan and his Ph.D. in Computer Science in 1981 from the University of Texas-Austin. Since then, he has been at UH, where he is currently a full professor. Dr. Huang was a National Research Council-NASA Senior Research Associate at NASA Goddard Space Flight Center, Greenbelt, Maryland, from 1989 to 1990. He is also a senior member of IEEE and a member of ACM. Dr. Huang's main research areas include Cybersecurity, Algorithms, and Data Analytics, and he has published over 100 refereed conference and journal papers. His current research focuses on detecting active adversaries hiding behind anonymity networks.

2:30 p.m. – 5:30 p.m.	***Professional Career Development Session* (專業職涯發展講座)** **Education Division, Taipei Economic and Culture Office in Houston** **駐休士頓台北經濟文化辦事處教育組協辦**
Co-Chairs:	**Paul Liou (劉志忠)**, ACAP 38th President (2022-2023) **Emcee: Pei-Ching Tai (戴珮青)**, PhD, FASCA Advisor **Honorable Guest: William Chien (錢懋曾)**, PhD, ACAP 6th President (1986-1987)

Speaker: Y. Vani Rao, Executive Coach, VTK Consulting, Houston, Texas
Topic: Delivering Impactful Presentations

Abstract: You have 10 seconds to make a first impression. You have 30 seconds before your audience decides how they feel about you. And, by the end of the first two minutes, your audience will have assessed your credibility and perceived level of knowledge. Communication is what your audience hears and what they think you mean. It is not what you say or think you said. Join this interactive workshop to learn the techniques used by world-class presenters to design and deliver impactful presentations.

About the Speaker: Vani Rao is an executive coach who specializes in helping clients create a mindset to deliver results through their empowerment. She believes that relentless positivity is transformational – taking accountability for every aspect of your life, seeking positive lessons from negative experiences.
She uses values-based coaching with clinically proven mental and emotional release

techniques to break negative patterns and to manifest goals. She has worked for three decades in the corporate sector, most notably in oil and gas leading teams in capability, planning, projects & engineering, continuous improvement and diversity & inclusion. Her passion for inclusivity garnered numerous internal corporate and external industry awards. Her coaching style combines Eastern philosophy and Western business acumen to empower underrepresented groups to use their voices to get results – the intersection of business and belonging.

Vani has an MBA from Columbia University and BA in Psychology from Austin College. She is a certified trainer of Neuro Linguistic Programming (NLP), a project management professional (PMP©), is certified in Mental and Emotional Release (MERTM), hypnosis and Myers-Briggs Type Indicator. She lives in Houston, enjoys travel, meditation and her beloved Dallas Cowboys.

2:30 p.m. – 5:30 p.m.	***Energy Session* (能源講座)** **Chinese American Petroleum Association (CAPA)美國華人石油協會協辦**
Co-Chairs:	**Tzu-hao Yeh (葉子豪), PhD, Reservoir Engineer, Shell Oil Company** **Chih-Cheng Lin (林志成), Principal Production Engineer, Shell Oil Company**
Theme:	***AI and Machine Learning in Oil Field & New Energies***

Speaker: Chuen Song Chen, PhD, Data Scientist, Shell Global Solutions (US) Inc.
Topic: Machine Learning Applications for Subsurface and Well
機器學習在地層與油井中的應用

Abstract: Deep learning (DL) and artificial intelligence (AI) are revolutionizing subsurface modeling and interpretation by automating workflows, enhancing accuracy, and reducing manual effort. Recent advancements include end-to-end solutions such as automated seismic processing, fault detection, and 3D rock property modeling. We developed AI assisted workflows and tools that enable rapid seismic interpretation, identifying horizons, faults, and geobodies with minimal manual input. These innovations demonstrate significant improvements in efficiency, scalability, and data integration across seismic, well log, and production datasets. Challenges such as synthetic-to-real domain adaptation and computational scalability remain, but emerging hybrid methods combining DL with physics-informed models promise robust solutions for subsurface exploration and production.

About the Speaker: Dr. Chen has a major in electrical and computer engineering with 15+ years of O&G industry experience working primarily on seismic exploration projects and has been actively working on developing specific neural network architectures to solve relevant problems in seismic processing and imaging space.

Speaker: Xuejia Du, Ph.D., Postdoctoral Fellow at University of Houston
Topic: Development of Advanced Machine Learning Models for Predicting CO2 Solubility in Brine
先進的機器學習模型以預測二氧化碳在鹽水中的溶解度的發展

Abstract: This study explores the application of advanced machine learning (ML) models to predict CO2 solubility in NaCl brine, a critical parameter for effective carbon capture, utilization, and storage (CCUS). Using a comprehensive database of 1404 experimental data points spanning temperature (−10 to 450 °C), pressure (0.098 to 140 MPa), and salinity (0.017 to 6.5 mol/kg), the research evaluates the predictive capabilities of five ML algorithms: Decision Tree, Random Forest, XGBoost, Multilayer Perceptron, and Support Vector Regression with a radial basis function kernel. Among these, XGBoost demonstrated the highest overall accuracy, achieving a R2 value of 0.9926, with low root mean square error (RMSE) and mean absolute error (MAE) of 0.0655 and 0.0191, respectively. A feature importance analysis revealed that pressure has the most impactful effect and positively correlates with CO2 solubility, while temperature generally exhibits a negative effect. A higher accuracy was found when the developed model was compared with one well-established empirical model and one ML-based model from the literature. The results underscore the potential of ML models to significantly enhance prediction accuracy over a wide data range, reduce computational costs, and improve the efficiency of CCUS operations. This work demonstrates the robustness and adaptability of ML approaches for modeling complex subsurface conditions, paving the way for optimized carbon sequestration strategies.

About the Speaker: Dr. Xuejia Du is currently working as a postdoctoral researcher at the University of Houston. She received the Ph.D. degree in Petroleum Engineering from University of Houston in 2023, MSc from University of Kansas in 2018 and BSc from China University of Petroleum (Beijing) in 2014. Her research focuses on CO2-EOR, CCUS, reservoir management, formation damage during the produced water re-injection process, phase behavior, petroleum geology, pressure transient test, numerical simulation, and machine learning. She obtained 2nd place in SPE GCNA/SWNA Regional student paper contest (Ph.D. division) in 2023 and received President's Citation Award in 57th U.S. Rock Mechanics / Geomechanics Symposium.

Speaker: Chih-Cheng Lin, Principal Production Engineer, Shell Oil Company
Topic: Water Flooding Cases in GoM – Enhancing Oil Recovery
墨西哥灣的注水案例—提高石油採收率

Abstract: This presentation provides a high-level introduction to water flooding and some techniques used in the Gulf of America (GOM) to boost oil production. Water flooding involves injecting water into oil reservoirs to help push the oil towards production wells, making it easier to extract. The discussion will cover a few case studies from the GOM, showcasing the results achieved in enhancing oil recovery.

Key points include how to choose suitable sites for water flooding, designing effective water injection wells, and monitoring the performance of these wells. The presentation will also highlight the benefits of water flooding, such as maintaining reservoir pressure and improving the amount of oil recovered. By examining successful examples, we will share valuable insights for other projects.

About the Speaker: Over the past 29 years, Chih-Cheng has become the ultimate sand control wizard, mastering the study, design, testing, and field installation of sand control

completions. With 20+ years at Shell and 9 years at Schlumberger, he is practically a sand control superhero. He works extensively with downhole tools and pumping operations for all stages of sand control completions & production operations. Currently, he is tackling deepwater projects in the Gulf of Mexico, Brazil, and Nigeria as a Principal Production Technologist/Engineer.
In summary, he should retire after these many years, but just cannot resist the call of the sand!

2:30 a.m. – 5:30 a.m.	***Health Session* (健康講座)**
Chair:	**Hue-Teh Shih (施惠德醫師), MD, MPH, Cardiac Electrophysiology**
Theme:	***Artificial Intelligence in Medicine* (人工智慧在醫學上的應用)**

Speaker: Kang-Lin Hsieh (謝岡霖), Ph.D., MD Anderson Cancer Center

Topic: AI Virtual Cells: A Multi-Agent Deep Learning Approach for Modeling Cellular Perturbations
AI虛擬細胞：基於多代理深度學習的細胞擾動建模方法

Abstract: The cell is a fundamental unit of life, exhibiting dynamic and adaptive behavior through complex molecular interactions. Perturbations—ranging from gene knockouts to environmental stressors—can drive functional transitions, leading to disease or resilience. Understanding these perturbations is crucial for drug discovery, target identification, and population studies. The rise of large-scale genomic data, including NGS, bulk expression, and multi-omics datasets, offers unprecedented opportunities to decipher these cellular responses using Artificial Intelligence (AI).

Recent advancements in AI, including Graph Neural Networks (GNNs), Variational Autoencoders (VAEs), and Large Language Models (LLMs), have demonstrated success in diverse biomedical applications, from drug repurposing to spatial transcriptomics analysis. Integrating these technologies into an AI Virtual Cell (AIVC) framework enables a novel approach to modeling cellular perturbations. AIVC consists of an AI agent pipeline, where specialized deep learning models process and learn from distinct biological data types to simulate cellular responses at scale.

Leveraging my expertise in electronic health records, multi-omics, claims data, and deep learning, I aim to develop AIVC as a robust platform for biological research. This presentation will explore the architecture of AIVC, the potential of AI-driven cell modeling, and its implications for precision medicine and biomedical discovery. By integrating AI agents trained on diverse datasets, AIVC represents a step toward intelligent in silico modeling of cellular behavior, unlocking new insights into disease mechanisms and therapeutic interventions.

About the Speaker: Dr. Kang-Lin Hsieh earned his B.S. degree in Life Science & Genomic from National Yang-Ming University, Taipei, Taiwan, in 2008. He received his M.S. degree in Pharmacology from National Taiwan University, Taipei, Taiwan, in 2010. In 2019, Dr. Hsieh obtained his Ph.D. degree in Medical Informatics from the University of Texas Health Science

Center, Houston, TX. Since then, he has been a research fellow in the University of Texas Health Science Center, Houston, TX.

Dr. Hsieh has been interested in using big medical data in real-world applications. He has worked on electronic medical records, claims data, images, text data, and gene sequence data to develop tools that advance medical research.

Speakers: Hue-Teh Shih（施惠德醫師）, M.D., M.P.H. Cardiac Electrophysiology
Topic: Artificial Intelligence in Cardiology
人工智慧在心臟病學中的應用

Abstract: Artificial intelligence (AI) is now a household name. Using higher speed processing units, larger quantity of memory, more precise database, and software with better logic, the computer can query the whole database in a short time, analyze the information, and provide the summary in a way that an individual human brain may not be able to achieve in a similar time. The pitfall of AI can be in the inaccuracy of database and the computation logic.
In cardiology, AI has been developed for the diagnosis and management of diseases. The training strategy can be the utilization of strict criteria and algorithm, or the repetition of events with the same conclusion without specific instruction of details. With accumulation of bigger data, the AI is tested for the accuracy of conclusion and correction is made to further train the AI. Theoretically, after the process is repeated multiple times, the accuracy of the AI will increase incrementally.

Electrocardiography (ECG) is a common diagnostic tool in cardiology. It is probably the first test that has "computer interpretation." Since digital ECG replaced analog ECG in the 1980's, computer interpretation of ECG has become more and more accurate. Even "smart watches" would claim to be able to make the diagnosis of atrial fibrillation in recent years. However, there is still significant room for improvement so one has to apply AI with caution.

About the Speaker: Dr. Hue-Teh Shih graduated from Taipei Medical College with a M.D. degree in 1980 and Harvard School of Public Health with a Master of Public Health in 1982. After finishing post-graduate training in Medicine/Pediatrics, Cardiology, and Clinical Cardiac Electrophysiology, Dr. Shih spent many years as an academic physician and began solo practice in 2006 after serving as the Director of Cardiac Electrophysiology at Baylor College of Medicine, Houston, TX.

Dr. Shih is developing medical devices including cardiac electrophysiology catheters and impedance monitors. He is also working on setting up a data center that emphasizes more medical data.

Dr. Shih has participated in activities of the Chinese Community for years. He was President of Chinese American Doctors Association of Houston from 2010 to 2011. He takes part in the annual Chinese Community Health Fair and was President of Health Education for Asians League of Houston, the predominant organizer of the Health Fair. from 2014 to 2020. In 2015, the annual Food Safety and Hygiene Seminar was started by the Chinese Health Fair Organization Committee. 2019 marks the fifth time the Seminar was held.

Speakers: Chun-Teh Lee (李俊德), DDS, University of Texas School of Dentistry
Topic: The AI Revolution: How AI Changes Daily Routines and Dentistry
人工智慧革命：人工智慧如何改變日常生活及牙科領域

Abstract: Artificial intelligence (AI) applications have significantly increased over the past few years, especially in everyday life and healthcare. The utilization of AI-driven tools in daily life and dentistry has seen an incredible rise. This presentation will introduce the fundamental concepts of AI and how AI impacts daily lives and dental practice.

About the Speaker: Dr. Chun-Teh Lee received his Dental degree (DDS) from National Taiwan University School of Dentistry, Taipei, Taiwan, in 2007. He obtained his MS degree and Certificate in Periodontics from Columbia University College of Dental Medicine, New York, NY, in 2012. Subsequently, he received his DMSc degree in Oral Biology from Harvard School of Dental Medicine, Boston, MA, in 2015.

Dr. Chun-Teh Lee is currently Associate Professor and Director of Pre-/Post-Doctoral Research at the University of Texas Health Science Center at Houston (UTHealth Houston) School of Dentistry. Dr. Lee's research focuses on understanding the resolution of inflammation mediated by specialized pro-resolving mediators (SPMs) in periodontitis, using artificial intelligence to improve periodontal diagnosis and prognosis, and tissue alterations following immediate implant. Dr. Lee is also active in evidence-based dentistry. He is productively publishing articles in peer-reviewed journals, actively giving continuing education lectures, and writing and editing book chapters.

二零二五年科學工程技術研討會
2025 Science, Engineering and Technology Seminars (SETS)

Acknowledgements

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The Association of Chinese American Professionals Fact Sheet

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. Founded in 1978, and currently with a total membership of approximately 300, the ACAP recruits its members from, but not limited to, the states of Texas, Louisiana, Mississippi, Arkansas and Oklahoma.

In 2001, the ACAP, in collaboration with JPMorgan Chase, Shell Oil Company and Marathon Oil Company, organized the inaugural Diversity Summit annual conference. This annual conference has since gained wider support and attendance from other major corporations and organizations in the greater Houston area with an attendance of over 300 people. The summit was transformed to Empower Summit in 2025.

As a non-profit organization, the ACAP strives to foster the professional development and fellowship among its members, to facilitate the development of leadership skills of Chinese Americans professionals, and to address various issues that Chinese American professionals faced in the workplace.

To encourage professional advancement of the members, the ACAP regularly hosts technical seminars and workshops with various professional disciplines throughout the year. The flagship activity is the Science, Engineering and Technology Seminars (SETS) held in Houston in the spring/ summer of each year. SETS usually draw 200 to 300 participants. These seminars, workshops and conferences are multidisciplinary, and often involve guest speakers from other states and foreign countries.

THE ASSOCIATION OF CHINESE AMERICAN PROFESSIONALS (ACAP)
10303 Westoffice Drive Box 194, Houston, Texas 77042
https://www.acap-usa.org

MEMBERSHIP APPLICATION FORM

Name: Mr./Mrs./Ms./Dr. _____ (Chinese) _____
Last First Middle

Spouse:_____(Chinese)_____ ACAP Member: _____ Yes _____ No

Mailing Address: _____Home or _____ Business _____

_____

Phone: Home_____ Work_____ Fax: Home _____ Work_____

E-mail: Home _____ Work _____

Education: Degree University/Institute Major Field

_____ _____ _____

_____ _____ _____

Currently enrolled at (University): _____ Expected Degree/Date:_____

Employer: _____

Other Chinese Society Membership: _____

Division Preference (Please Check):

____ Architecture Engineering	_____ Education	____ Law	____ Polymer symposium
____ Biomedical Science	_____ Electrical Engineering	____ Literature and Art	____ Political Science
____ Business	_____ Environmental	____ Mechanical Engineering	____ Social Science
____ Chemical Technology	_____ Industrial Engineering	____ Medical & Health Science	____ Space Technology
____ Civil Engineering	_____ Information Technology	____ Petroleum Technology	____ (Other) _____

Field of Specialization: _____

Membership Type and Fee (Please Check One):
_____ Life Member - $200 (one-time payment)
_____ Regular Member - $50/annual (January through December)
_____ Student Member - $15/annual (January through December)

ACAP Function and Program Interests:
____Continuing Education____ Budget and Finance ____ Fund Raising ____ Membership Drive ____ Mentoring
____Newsletter ____ Public Relations ____ Student Liaison ____(Others)_____

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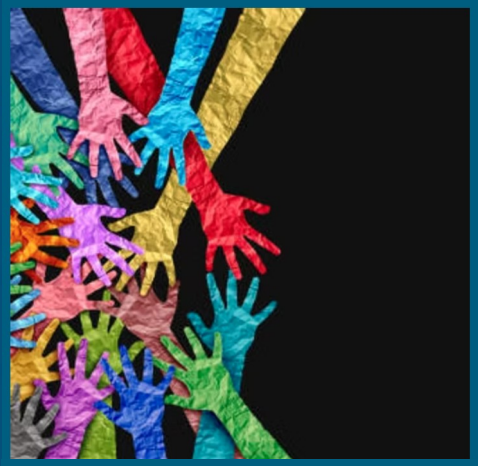

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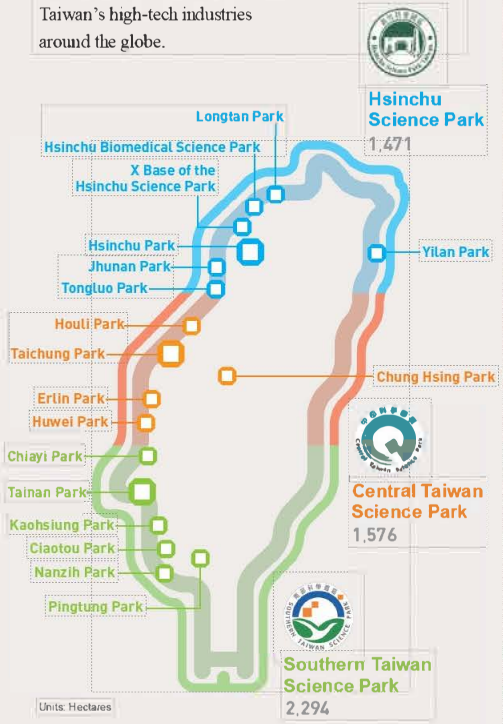
Taiwan: Shaping the AI Future

Developing Science Parks

Taiwan currently has three core science parks located in the northern, central, and southern areas. These parks form lifestyle-oriented communities that integrate R&D, production, working, living and recreational facilities, and each park focuses on different but complementary S&T sectors. Their success over the past four decades has not only brought economic prosperity, but also made a name for Taiwan's high-tech industries around the globe.



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National Science and Technology Council

Republic of China (Taiwan)

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Taipei 106214, Taiwan
Tel: +886 (2) 2737 7992
https://www.nstc.gov.tw/

March 2025

Our History

The National Science and Technology Council (NSTC) is Taiwan's leading cross-government agency dedicated to advancing scientific and technological development. Originally established as the National Science Council (NSC) under the Executive Yuan on February 1, 1959, it was transformed into the Ministry of Science and Technology (MOST) on March 3, 2014, with a mission to foster innovation, support startups, and strengthen collaboration between academia and industry. On July 27, 2022, MOST was restructured into the NSTC to drive a more forward-thinking science and technology strategy and capitalize on emerging global opportunities.

Our Mission

The NSTC is charged with tasks of planning the nation's frontier S&T, promoting the development of S&T, applying basic research to industrial applications, and coordinating the allocation of resources across agencies and fields. As an engine of S&T innovation, the NSTC has carried out four missions:

1. Formulating Science and Technology Policies
2. Supporting Fundamental & Strategic Research
3. Promoting Innovation and Entrepreneurship
4. Developing Science Parks

Formulating Science and Technology Policies

Taiwan's 2030 vision of "Innovation, Inclusion, and Sustainability" aims to develop people-centric S&T, meet the diverse needs of different age and ethnic groups, and build a sustainable society that features economic growth, ecological protection, and regional balance.

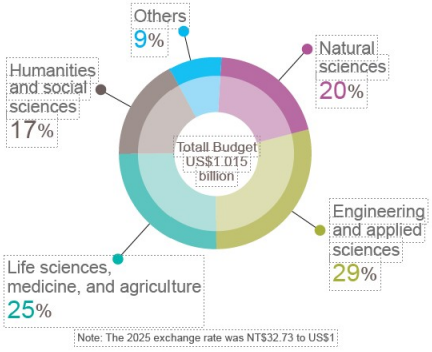
Major S&T Areas

- Semiconductors and Quantum Technology
- Artificial Intelligence (AI)
- Space Technology and 6G
- Cyber Security
- Precision Health
- Net Zero Technology
- Defense Technology
- Humanities and Social Issues

Major Projects

- Chip Team Taiwan Initiative
- Greater Southern New Silicon Valley Promotion Plan
- Taiwan AI Action Plan 2.0

Research Grant Allocation by Fields, 2024



Note: The 2025 exchange rate was NT$32.73 to US$1

Supporting Fundamental & Strategic Research

To advance scientific and technological development, the NSTC funds academic research through grants to educational and research institutions. To maximize the efficiency of scientific resources, the NSTC also enhances the S&T service ecosystem by establishing national-level experimental facilities, integrating shared resources, and expanding access to core facility platforms.

Promoting Innovation and Entrepreneurship

As an upstream driver of the technological innovation ecosystem, the NSTC encourages universities and research institutions to pursue research with entrepreneurial potential and accelerate the transformation of their findings into startups. After receiving initial support from the NSTC, these startups gain further assistance from Taiwan Tech Arena (TTA) and TTA South, which help them connect with international markets and funding opportunities.

Foundations and Administrative Corporations

- National Institutes of Applied Research (NIAR)
- National Synchrotron Radiation Research Center (NSRRC)
- National Science and Technology Center for Disaster Reduction (NCDR)
- Taiwan Space Agency (TASA)

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2030 Technology Strategy and Roadmap

To innovate a better future, ITRI has drawn up its 2030 Technology Strategy and Roadmap, in which it enhances the development of intelligentization enabling technologies and focuses on three application domains: Smart Living, Quality Health, and Sustainable Environment. The Institute strives to use technological innovation to shape new lifestyles, develop market-oriented solutions, and find uncontested spaces.

Smart Living

Digital transformation has become a driving force for global economic innovation. With the prevalence of IoT and AI, people are seeking a faster, easier, and smarter life with the introduction of intelligent devices/services and new business models. Therefore ITRI is developing personalized devices and services, autonomous mobility systems, and smart industries and services for the Smart Living domain. ITRI is also working on human-machine interaction, enhanced imaging and perception systems, autonomous decision-making and control, and smart business technologies and services.

Quality Health

As many countries are moving towards hyper-aged societies, demands for medical personnel and healthcare resources are increasing. New business opportunities in the emerging diagnosis and treatment market are also created through integrated solutions that include smart long-term care systems, personalized/precision medicine, and healthcare models. In the domain of Quality Health, ITRI leverages Taiwan's strengths in ICT and medical care systems to develop smart medical and healthcare technologies. The R&D scope includes smart medical electronics, regenerative medicine, wearable devices, digital healthcare services, and many more.

Sustainable Environment

Due to the current climate change, greenhouse effects, and limited energy sources and resources, how to coexist with Mother Nature has become an important issue when developing new technologies. A sustainable environment can be maintained by creating a circular ecosystem, cutting down time and energy consuming production processes, and discovering green energy sources. ITRI is thereby enhancing the technology development in the circular economy, smart manufacturing, and green energy and environment fields by exploring high-value circular materials, smart manufacturing systems, and supply chain management to achieve ecological symbiosis.

Intelligentization Enabling Technology

Intelligentization enabling technology is the backbone supporting multiple applications in the 2030 Technology Strategy and Roadmap. As a result, ITRI turns to AI, semiconductor, communications, cybersecurity, and cloud technologies to foster technology breakthrough in the above three application domains. At the same time, Intelligentization enabling technology can ensure data privacy and information safety when combating cyber threats.

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