

**2024 Science, Engineering and Technology Seminar (SETS)
June 1, 2024, Marriott Sugar Land
Conference Information**

Morning Sessions:

- Environmental Protection Session
- Health Session
- Nano and Composite Technology Session
- Young Professionals Networking Session

Afternoon Sessions:

- Artificial Intelligence Session
- Business Session
- Energy Session
- Popular Science Session

Registration Fees

Category	Advanced Registration	On-Site Registration
ACAP and Collaborating Organizations Members – All sessions and lunch	\$70	\$85
Student Members – All sessions and lunch	\$50	\$65
Non-Members – All sessions and lunch	\$75	\$90
Members and Students – Sessions only	\$20	\$30
Non-Members – Sessions only	\$30	\$40
ACAP Annual Student Membership Renew	\$15	
ACAP Annual Regular Membership Renew	\$50	
ACAP Lifetime Membership	\$200	
Conference Sponsorship		

Please register online at <https://www.acap-usa.org> prior to May 17, 2024.



美南國建協進會
 Association of Chinese American Professionals
 10303 Westoffice Drive, Box 194
 Houston, TX 77042

美南國建協進會
**Association of Chinese
 American Professionals**

2024

Annual Conference of
 Science, Engineering and Technology Seminars (SETS)
 二零二四年科學工程技術研討會

Preliminary Program
 預定議程

Theme:
 Environmental Protection, Health,
 Nano and Composite Technology,
 Young Professionals Networking,
 AI, Business, Energy, Popular Science

會議主題：
 環境保護、健康、奈米及複合科技、
 青年專業人士交流講座、人工智慧、商務、能源、科普

協辦單位：
 世界華人工商婦女企管協會美南分會
 休士頓華商經貿聯合會
 美國華人石油協會
 美南大專院校聯合校友會
 海外青年文化大使
 駐休士頓台北經濟文化辦事處 科技組

Place
 Stamp
 Here



Saturday, June 1, 2024

Marriott Sugar Land
 16090 City Walk, Sugar Land, Texas

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

8:00 am -11:30 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:	Yin-Jen Chou (卓英仁), PhD, Technical Director, Greenland Environmental Company, Taiwan
	Cheng-Mao Tseng (曾正茂), PhD, Deputy General Manager, Greenland Environmental Company, Taiwan
Topic:	A Case Study on Small Molecule Organic Fertilizer Made from Food Waste (廚餘製小分子有機肥案例研究)
Speaker:	Matthew Lee (李建宏律師), LexNovia Venture Studio
	Sam Chen (陳勝亨董事長), Texas Village Austin, Ltd., Austin, Texas
Topics:	N9 Spaces - Sustainable Hospitality for Digital Nomads (N9空間-諾馬客社群平台與環保節能減碳新機制)
Speaker:	Vance Nobe, President & CEO, Akari Energy, Houston, Texas
Topic:	The Challenges of Developing Large-Scale Solar Power
Speaker:	Chi-Chung Chang, PhD, Principal, CPD Consultants; Adjunct Faculty, University of Houston, Houston, Texas
	Jonathan Greene, PE, CPD Consultants, Houston, Texas
Topic:	Green Building Design and Construction in Response to the Global Weather
Speaker:	Doug Coenen, PE, Walter P. Moore Engineering, Houston, Texas
Topic:	Engineering Design for Flood Protection in the Greater Houston Area
Speaker:	Keith Koski, Manager of Recycling and Reuse Warehouse, Solid Waste Management Department, City of Houston
Topic:	City of Houston Reuse Warehouse for Building Materials - A Innovative Program at 15 Years
Speaker:	Clifford C. Lee, PhD, Lee Plastic Consulting, Pearland, Texas
Topic:	Polyethylene Technology Frontiers and Sustainability Development
Speaker:	Michael Liu, President, American P&G Corp, Houston, Texas
Topic:	Environmentally Friendly and Biodegradable Starch Glue Adhesive

8:30 am - 11:30 am **Health Session (健康講座): Materials in Dentistry (牙科材料知多少)**
Chair: **Hue-Teh Shih (施惠德), MD, MPH, Cardiac Electrophysiology**

Speaker: **Michael Ming-Ying Chiang (江明穎), BDS, MS, Brilliant Smiles Orthodontics**
Topic: **Materials in Orthodontics (Virtual Presentation)**

Speaker: **Hsiu-Wan Meng (蒙秀婉), DDS, MS, Blackhorse Periodontics and Implant Dentistry**
Topics: **Materials in Periodontics and Dental Implant**

Speaker: **Jennifer Kan (關若玫), DDS, Fountains Family Dental**
Topic: **Materials in Root Canal, Crowns, Bridges, and Dentures**

8:00 am - 11:30 am **NANO and Composite Technology (納米及複合材料科技)**
Co-Chairs: **Howard Paul, PhD (浦浩德 博士), PE., Engineering Manager, America P&G**
Guoqiang Li, PhD (李國強 博士), Professor, Department of Mechanical & Industrial Engineering, Louisiana State University, Baton Rouge, LA

Speaker: **Howard Paul, PhD (浦浩德 博士), PE., Engineering Manager, America P&G**
Topic: **Nanotechnology New Blast-proof Materials (納米科技的新防爆材料)**

Speaker: **Guoqiang Li, PhD (李國強 博士), Professor, Louisiana State University, Baton Rouge, LA**
Topics: **Multifunctional Syntactic Foam (多功能的複合泡沫)**

Speaker: **Cheng Yan, PhD (嚴成 博士), Louisiana State University, Baton Rouge, LA**
Topic: **Enhancing Shape Memory Vitrimers with Machine Learning: A Path to High-Performance Materials (透過機器學習增強形狀記憶的 Vitrimers: 高性能材料之路)**

Speaker: **Chengbin Yu, PhD (俞程纘 博士), Postdoctoral Researcher, Department of Mechanical & Industrial Engineering, Louisiana State University, Baton Rouge, LA**
Guoqiang Li, PhD (李國強 博士), Professor, Louisiana State University, Baton Rouge, LA
Topic: **Electric Power Generation by Connecting Two Form-Stable Phase Change Materials (PCMs) (透過連接兩種形狀穩定的相變材料 (PCMs) 來發電)**

Speaker: **Xiaowei Mu, PhD, Postdoctoral Researcher, Department of Mechanical & Industrial Engineering, Louisiana State University, Baton Rouge, LA**
Guoqiang Li, PhD (李國強 博士), Professor, Louisiana State University, Baton Rouge, LA
Topic: **Plasma Modification Interfaces in Nonflammable Ceramic Nanofiber-Polymer Electrolytes with High-Ionic Conductivity for Lithium Metal Batteries (用於鋰電池具有高離子電導率的電漿界面在不可燃陶瓷奈米纖維聚合物電解質)**

Note: Earn 4 Professional Development Hours (PDH) by attending this session. Certificate will be issued per request after the conference. (賺取4 PDHs, 根據要求會議後發出證書)

9:30 am -11:30 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

Co-Chairs: **Amy Ku, PhD (辜千慈 博士), Scientist, Baylor College of Medicine**
Pei-Ching Tai, PhD (戴珮青 博士)

Speakers: **Joanne Ray (芮久玟), Director of Community Engagement, City of Houston**
Kathy Cheng (鄭佩玲), J.D., Attorney
Topic: **Career Insights Mixer (職場停看聽)**

11:30 am - 12:30 pm **Luncheon and Awards 午宴及頒獎**
Master of Ceremonies: Eddy Lee, PhD (李怡德 博士), ACAP President-Elect

Welcome Remarks: **Minnie Tsai Nelson (蔡米惠), Esq., ACAP President**

Opening Remarks: **Yvonne Yi-Fang Hsiao (蕭伊芳 處長), Director General, Taipei Economic & Cultural Office in Houston**

Luncheon

Guests Remarks: **Yvonne Wang (王盈蓉 主任), Director, Culture Center of Taipei Economic & Cultural Office in Houston**

Achievement and Service Awards

12:30 pm -1:30 pm **Keynote Address (專題演講)**

Introduction: **Pin-Chuan (PC) Chen, PhD (陳品銓 教授), Director, Science and Technology Division, Taipei Economic and Cultural Office in Houston**

Speaker: **Da-Jeng Yao, PhD (饒達仁 博士), General Director, Mechanical and Mechatronics Systems Research Laboratories, ITRI (工業技術研究院 機械與機電系統研究所所長)**
Topic: **Next Generation of Intelligent Manufacturing Factory (打造新世代智慧工廠)**

1:30 pm - 4:00 pm **Artificial Intelligence Session (人工智慧講座)**
Federation of Chinese Trader Alumni Greater Houston 休士頓華商經貿聯合會
Chair: **Stephen Huang, PhD (黃壽萱 教授), Professor, University of Houston, Houston, Texas**

Speaker: **Stephen Huang, PhD (黃壽萱 教授), Professor, University of Houston, Houston, Texas**
Topics: **Generative AI: Perspectives, Challenges, and Opportunities (生成式人工智慧的前瞻、挑戰及機會)**

Speaker: **Kang-Lin Hsieh PhD (謝岡霖 博士), Post-Doctoral Fellow, MD Anderson Cancer Center**
Topic: **Digital Biology: How AI transforms the landscape of biology and shapes future opportunities (AI 如何改變生物學以及形塑未來的機會)**

Speaker: **Chien-Pu Huang (黃千溥 建築師), Ph.D. candidate, National Taiwan University, Taipei, Taiwan**
Topics: **Carbon Neutrality in the Built Environment: A Dream or Reality? Unlocking New Horizons with AI (建成環境中的碳中和：夢想還是現實？- 運用人工智慧解鎖新視野)**

1:30 pm - 4:30 pm **Business Session (商務講座)**
Global Federation of Chinese Business Women in Southern USA (GFCBW) 世界華人工商婦女企管協會美南分會協辦
Chair: **Annie Hwang (張瓊文), President, GFCBW**

Speaker: **Alex Shaw (蕭雲祥), MBA, Investment Consultant**
Topic: **How to Establish a Complete Retirement Financial Plan (如何建立一個完整的退休計劃)**

Speaker: **Kenneth Li (李雄), Broker, CCIM, CIPS, President, Southwest Realty Group; Chairman, Southwest Management District; Commissioner of Houston Housing Authority**
Topics: **How to Do Business with the Houston Housing Authority**

Speaker: **Fong Ping Hwang (黃峰彬), Real Estate Investment & Management**
Topic: **Real Estate Investment: General Overview**

1:30 pm - 4:30 pm **Energy Session (能源講座): AI and Machine Learning in Oil Field & New Energies**
Chinese American Petroleum Association (CAPA) 美國華人石油協會協辦
Co-Chairs: **Chih-Cheng Lin (林志成), Senior Production Engineer, SME-Sand Control, Shell Oil Company**
Tzu-hao Yeh, PhD (葉子豪 博士), Reservoir Engineer, Shell International E&P

Speaker: **Chuen Song Chen, PhD, Data Scientist, Shell Global Solutions (US) Inc.**
Topic: **Subsurface Image Morphing Operator using Deep Learning Techniques**

Speaker: **Zach Liu, PE, PG, CFA, Subsurface Director CCUS, Harvestone Low Carbon Partners**
Topics: **Challenges and Opportunities in Large-Scale Carbon Capture Storage (CCS)**

Speaker: **Xuejia Du, PhD, Postdoctoral Fellow at University of Houston**
Topics: **Applying Machine Learning Algorithms to Predict CO2 Solubility in Oil during CO2 Flooding**

Speaker: **Chih-Cheng Lin, Senior Production Engineer, SME – MPD, Shell Oil Company**
Topic: **MPD (Managed Pressure Drilling) Technology Applications to Recover More Oil & Gas**

1:30 pm - 4:00 pm **Popular Science Session (科普)**
Formosa Association of Student Cultural Ambassadors (FASCA) 海外青年文化大使
Science and Technology Division, Taipei Economic and Cultural Office in Houston
Co-Chairs: **Pei-Ching Tai, PhD (戴珮青 博士)**
Peggy Chiu (邱佩冠)

Speaker: **Pin-Chuan (PC) Chen, PhD (陳品銓 教授), Director, Science and Technology Division, Taipei Economic and Cultural Office in Houston**
Topics: **Science and Technology Promotion in Taiwan**

Speaker: **San-Pei Lee (李姍蓓), IB Environmental Science Teacher, Lamar High School**
Topic: **Intersectional Environmentalism**

Speaker: **Hongyan Li, MD, PhD, Biology Teacher, DeBaKey High School**
Topic: **Forensic Science**