

CIE/USA-DFW ANNUAL CONVENTION

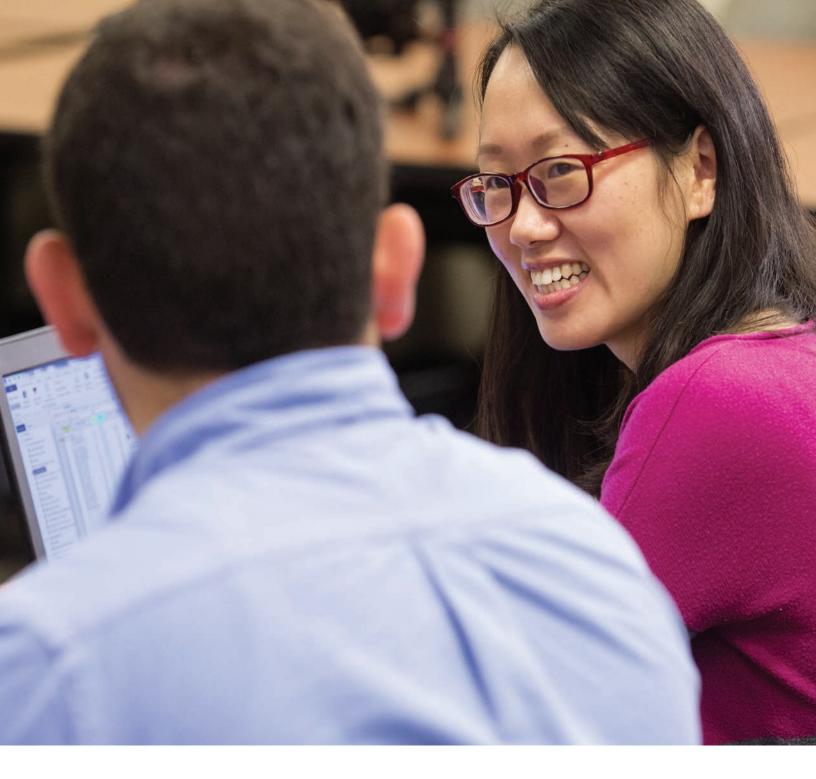
September 18th & 25th, 2021

Technology Fusion

Thriving in a Post-Pandemic World



Chinese Institute of Engineers/USA Dallas - Fort Worth Chapter 美洲中國工程師學會 達福分會

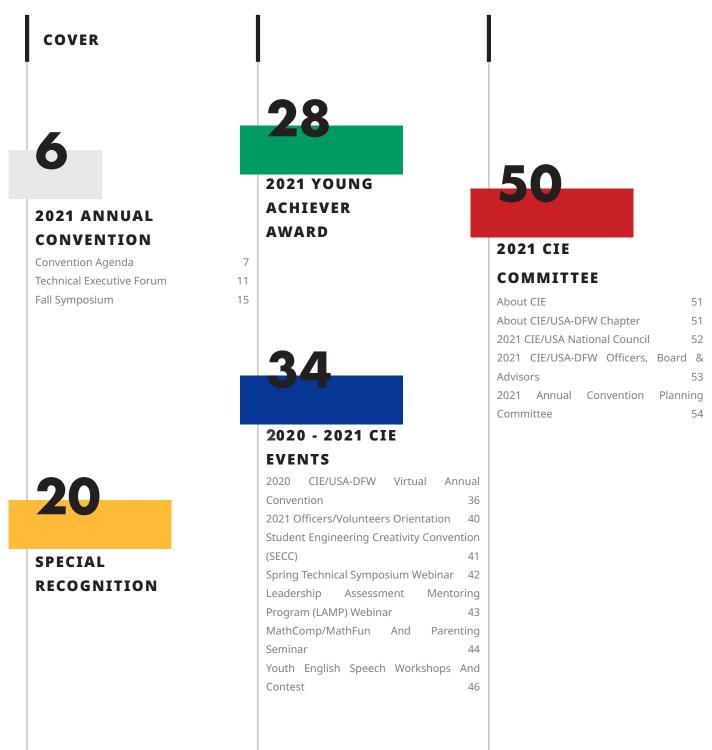


INNOVATION DOESN'T HAVE AN OFF SWITCH

We inspire smart solutions with a deep-rooted desire to empower the members of our community. This is brought to life by the people who work tirelessly to make Oncor a trusted resource for millions across the Lone Star State.



Table of Contents



Letter from the President

On behalf of CIE/USA-DFW, I welcome you to our virtual Annual Convention on September 18th and 25th, 2021. The convention is a celebration of the events and activities that CIE/USA-DFW provides as service to our communities, and a showcase of our appreciation to our sponsors and volunteers.

As a nationwide, non-profit professional organization, CIE/USA was founded in 1917. CIE/USA-DFW is one of seven regional chapters; it is our mission to enable the growth of current and aspiring engineers and technologists by providing a platform for technical exchange, professional networking, and STEM awareness.

In 2021, the COVID-19 pandemic continues to rage across the globe, and social issues further divide our communities. Despite these challenges, CIE/USA-DFW remains steadfast in its mission by offering a broad range of professional and youth programs virtually. In this unprecedented time, CIE/USA-DFW also stands in solidarity with the Asian American and Pacific Islander (AAPI) community and celebrates their achievements and contributions.

This year, we delivered many youth and professional programs to our members and community-at-large free of charge.



In March, we hosted three hands-on workshops and one competition as part of the annual Student Engineering and Creativity Convention (SECC) for grades K-12. On May 1st, we hosted our Spring Technical Symposium, featuring topics in "Resilience and Sustainability for the Future." On May 8th, the Leadership Assessment Mentoring Program (LAMP) webinar featured the theme of "Be a Resilient Leader." Our flagship youth program, MathComp/MathFun (MCMF) and parenting seminar, with a theme of "STEM as a Tool for Success" attracted hundreds of students and parents on June 5th. The first virtual Youth English Speech Workshops and Contest, co-hosted with the Texas Dragon Toastmasters Club, were held on June 12th, 19th and 26th. A record number of students participated in the two workshops and the contest. Overall, CIE/USA-DFW proudly served more than 3,000 people through our programs.

At the same time, CIE/USA-DFW strives to improve by looking for new and better ways to expand the reach of our organization and its programs. We collaborate with other organizations with similar goals. We are also promoting our events through videos with rich content, and have published many event recordings on our YouTube channel. The many virtual programs we delivered have served us well by reaching participants across the nation, well beyond the DFW area.

This relentless drive toward improvement will enable us to reach our vision to be the premier organization where professionals, students, parents and volunteers come together to foster professional networking, personal development, and STEM awareness.

Despite the many challenges of 2021, I remain optimistic as I look to the future. The 2021 CIE/

USA-DFW Annual Convention, anchored on the theme of "Technology Fusion: Thriving in a Post-Pandemic World," will bring together academic and industry leaders to share their expertise on new technologies, work processes and people leadership through a series of webinars and virtual panel discussions. I am confident their insights will not only inspire us, but also reaffirm my optimism.

We appreciate our sponsors for their continuous trust and generous support. We thank our board of directors and advisors for their guidance. From the bottom of my heart, I am deeply grateful to our volunteers for their passion and dedication.

Let us work together for a better world and a better future!

Yours sincerely,

J.m.M

Tiger Zhou, Ph.D. 2021 President CIE/USA-DFW Chapter

www.cie-dfw.org



CONVENTION AGENDA	7
TECHNICAL EXECUTIVE FORUM	11
FALL SYMPOSIUM	15
SYMPOSIUM SPEAKERS	17

2021 Annual Convention



SEPTEMBER 18TH, 2021

Fall Symposium

Technical Track



SESSION MODERATOR Dr. J.-C. Chiao Professor, SMU

2:00 - 2:10 PM **Opening Remarks**

2:10 - 2:45 PM **"Cancer Immunotherapy, a Promising New Cancer Treatment"** Alec Zhang, Professor, Department of Physiology, UT Southwestern Medical Center

2:45 - 3:20 PM **"Modern Smart Radar for Health and Activity Sensing"** Changzhi Li, Professor, Department of Electrical and Computer Engineering, Texas Tech University

3:20 - 3:55 PM "Converged Network for Next Generation IoT" David Lu, Vice President, Network Systems & Automation, AT&T Labs

3:55 - 4:00 PM Closing Remarks



SEPTEMBER 25TH, 2021

Technical Executive Forum

10:00 - 10:10 AM **Opening Remarks**



SESSION MODERATOR Mary Cooley Chief Operating Officer, Dynofit

10:10 - 10:35 AM **Panel Introductions**

- Dr. Chi-Foon Chan, President & Co-CEO, Synopsys, Inc.
- Troy Graziani, Director of Credit and Customer Experience, Toyota Industries
- Paul Nichols, Executive Director, Institute for Innovation & Entrepreneurship, University of Texas at Dallas
- Dr. Daniel J. Siegwart, Associate Professor, University of Texas Southwestern Medical Center, & Co-Founder/Advisor, ReCode Therapeutics
- Steven Yahata, Vice President, Integrated Vehicle Systems, Boeing Research & Technology

10:35 - 11:30 AM **Panel Discussions**

11:30 - 12:00 AM **Q&A**

12:00 - 12:10 PM **Survey & Closing**

Fall Symposium

Leadership and Career Development Track



SESSION MODERATOR, CONVENTION CO-CHAIR Chris Koh Board of Director, CIE/USA-DFW

2:00 - 2:10 PM **Opening Remarks**

2:10 - 2:30 рм	"How a Strong Company Vision & Culture Propels Us in Times of Uncertainty #OnlyForward"
	Gilma Saravia, Chief People Officer, Altair
2:30 - 2:50 рм	"Reflections on the Pandemic and How to Thrive Going Forward" Gurshaman Baweja, SVP and CIO, IT Services, Texas Instruments
2:50 - 3:10 рм	"Tend your Garden: Tips for Career Management in a Hybrid Workplace" Ellen Buck, VP, Business and Operations Services, Oncor Electric Delivery Company
3:10 - 3:50 рм	Panel Discussion Chris Koh, Board of Director, CIE/USA-DFW
3:50 - 4:00 рм	Poll/Prize Drawing and Closing Remarks

Virtual Ceremony

- 4:00 4:05 PM Introduction to CIE Youth Programs
- 4:05 4:40 PM **Young Achiever Award (YAA) Recognition** Jenny Hoch, YAA Chair, CIE/USA-DFW
- 4:40 4:45 PM **Sponsors & Volunteers Recognition** Tiger Zhou, President, CIE/USA-DFW
- 4:45 4:55 PM **Poll/Prize Drawing**
- 4:55 5:00 PM **Closing Remarks** Tiger Zhou, President, Convention Chair, CIE/USA-DFW



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TECHNICAL EXECUTIVE FORUM

"TECHNOLOGY FUSION: THRIVING IN A POST-PANDEMIC WORLD"



David Lu

Vice President, Network Systems & Automation, AT&T Labs



Dr. Chi-Foon Chan

President & Co-CEO, Synopsys



Troy Graziani

Director of Credit & Customer Experience, Toyota Industries



Dr. Lun Tsuei

Operations NPI Leader, SPM Oil & Gas, a Caterpillar Company

FORUM MODERATOR



Chief Operating Officer, Dynofit



Paul Nichols

PANEL

Executive Director, Institute for Innovation & Entrepreneurship, University of Texas at Dallas



Steven Yahata

Vice President, Integrated Vehicle Systems, Boeing Research & Technology, The Boeing Company



Dr. Daniel J. Siegwart

Associate Professor, Department of Biochemistry, UT Southwestern Medical Center, Co-Founder/Advisor, ReCode Therapeutics

Panelists will begin this interactive discussion by sharing their global perspective on Technology Fusion and the associated challenges, creative solutions to address these challenges, and opportunities for future collaboration. Attendees will have the opportunity to ask questions and interact with the panelists.

PANELIST PROFILES

This distinguished technical forum brings together Asian American Engineer of the Year (AAEOY) awardees, industry experts, and executives from sponsor companies to discuss topics associated with the conference theme of "Technology Fusion - Thriving in a Post-Pandemic World." This year, we invited five outstanding industry leaders and academic professors. They are experts in high-tech, transportation, medical, startup or entrepreneurship fields.



Vice President, Network

Systems & Automation,

AT&T Labs

FORUM HOST network virtualization and target network systems transformation including PaaS & SaaS, policy control & orchestration, hyperautomation and AI/ML driven data analytics. David Lu

Since joining AT&T Bell Labs in 1987, David has served in various leadership positions at AT&T. He has led numerous automation initiatives in AT&T that resulted in multibillion-dollar savings over the past 20 years and won AT&T's CIO 100 Award in 2010. David holds 54 patents and received numerous industry awards including the 2015 Chairman's Award from IEEE Communication Society for Network and Systems Quality and Reliability and 2017 CIE AAEOY (Asian American Engineer of Year) Award.

David Lu currently leads a global team of more than 2,500 people

responsible for the architecture, development and engineering of AT&T's next generation SDN (Software Defined Network) automation platform and open source (Linux Foundation ONAP) enabling AT&T's

As Synopsys' co-CEO, Dr. Chi-Foon Chan shares responsibility for crafting vision and strategy, leading the company, and ensuring execution excellence in support of our customers' success. As the company's President and COO, a role Dr. Chan held for 14 years prior to his 2012 appointment to President and co-CEO, he guided internal operations and worldwide field organizations. Dr. Chan joined Synopsys in 1990 as Vice President of Applications and Services where he helped build the Technical Field organization. He has sponsored several key initiatives such as entering the IP market, and personally facilitated key acquisitions such as Avant!, Virage Logic, Magma Design Automation and SpringSoft. In 2014, he led Synopsys' entry into the software testing market with the acquisition of Coverity, and the software security market with the acquisition of Codenomicon. Prior to Synopsys, Dr. Chan contributed to industry leading companies like NEC and Intel Corporations. Dr. Chan holds an M.S. and a Ph.D. in Computer Engineering from Case Western Reserve University; and a B.S. in Electrical Engineering from Rutgers University.



President & Co-CEO, **Synopsys**



PANELIST

Troy Graziani

Director of Credit & Customer Experience, **Toyota Industries**

Troy has spent his career at various entities of Toyota Industries Corporation (TICO) rotating through several financial, strategic and management roles.

From 2012 to 2014, Troy worked at TICO's headquarter in Nagoya, Japan acting as the liaison for the North America region. Troy is currently the Director of Credit & Customer Experience for Toyota Commercial Finance. The division is responsible to provide capital for dealers and end users of Toyota Forklift and Hino Truck product.

Troy holds a Bachelor's Degree from Canisius College in Buffalo, New York and an MBA from the Simon School of Business at the University of Rochester. He lives in Grapevine, TX with his fiancé and two dogs.

Paul is an accomplished innovator and business process strategist with a history of successfully applying and pioneering new technologies and techniques to solve real-world problems. His unique skills and experience have been applied in a variety of industries, from venture capital to entrepreneurism and national politics. He is a highly effective leader and team member with leadership training and practical experience in getting small, highly skilled groups of people to deliver new solutions and approaches quickly with limited resources.

A trusted communicator, he has testified twice in front of Texas House of Representative Select Committees on the need to increase public university research funding, and the importance of commercializing Texas university research and state-funded high-tech entrepreneurial investment. He has been interviewed by local and national media, has written on entrepreneurship for groups including CES/Consumer Technology Association, and is a frequent speaker on process improvement, innovation, entrepreneurship, and team-building.

PANELIST

PANELIST



Paul Nichols

Executive Director, Institute for Innovation & Entrepreneurship, University of Texas at Dallas



Dr. Daniel J. Siegwart

Associate Professor, Department of Biochemistry, UT Southwestern Medical Center, Co-Founder/Advisor, ReCode Therapeutics Dr. Daniel J. Siegwart is an Associate Professor in the Department of Biochemistry and the Simmons Comprehensive Cancer Center (SCCC) at UT Southwestern Medical Center. He is also the co-director for the Chemistry and Cancer Program within the NCI-designated SCCC.

The Siegwart Lab aims to discover and define the critical physical and chemical properties of synthetic carriers required for therapeutic delivery of short to long RNAs for gene silencing, delivery, and editing. Certain technologies, including Selective Organ Targeting (SORT) lipid nanoparticles (LNPs), have been licensed to ReCode Therapeutics, which is developing messenger RNA (mRNA) LNPs for treatment of genetic respiratory diseases including Primary Ciliary Dyskinesia (PCD) and Cystic Fibrosis (CF). Their research is grounded in chemical design and takes advantage of the unique opportunities for collaborative research at UT Southwestern.

Dr. Siegwart received a B.S. in Biochemistry from Lehigh University (2003), and a Ph.D. in Chemistry from Carnegie Mellon University (2008).

PANELIST

Steve Yahata is the vice president of Integrated Vehicle Systems, and leads the Boeing Research & Technology (BR&T) Research Center in Southern California. The organization is part of BR&T, Boeing's advanced central research and development unit. BR&T provides innovative technologies that enable the development of future aerospace solutions while improving the cycle time, cost, quality and performance of existing Boeing products and services. Steve leads a team of scientists, technologists, technicians and engineers conducting advanced research and development of flight performance, vehicle systems, structures technology including advanced vehicle concept development and demonstration.





Vice President, Integrated Vehicle Systems, Boeing Research & Technology, The Boeing Company



Chief Operating Officer, Dynofit In addition to her support of CIE both on the Board of Directors and the Technical Executive Forum, Dr. Mary Cooley leads the Dallas Chapter of SCORE, an organization dedicated to providing free, confidential mentoring and low-cost workshops to small business owners and entrepreneurs.

Dr. Cooley was the Chair of the Dallas Chapter of IEEE for 3 years before joining CIE. Until recently, her professional position included serving as the Chief Operating Officer of Dynofit, a medical device start-up. Other roles have included engineering and marketing leadership at Hewlett Packard, Xtendwave, Convex Computer and Texas Instruments. While at HP, she led the architecture and development of multiple generations of Superdome, the largest computer developed by the company.

Dr. Lun Tsuei currently works at SPM Oil & Gas, a Caterpillar Company, responsible for operations readiness of all the New Product Introduction (NPI) projects. He has over 20 years of broad experience in mechanical system design, new product development, lean manufacturing, and operations P&L management across semiconductor, solar energy, and Oil & Gas industries. In his service to CIE/USA-DFW Chapter, Dr. Tsuei served as 2019 AAEOY (Asian American Engineer of the Year Award) Co-Chair, 2020 President, and 2021 Chairman of the Board.

Dr. Lun Tsuei received his Ph.D. degree in Mechanical Engineering from University of California at Berkeley in 2000, and MBA degree from McCombs School of Business, University of Texas at Austin in 2013. Dr. Tsuei is also a certified Six Sigma Black Belt.



Dr. Lun Tsuei

Operations NPI Leader, SPM Oil & Gas, a Caterpillar Company

FALL SYMPOSIUM TECHNICAL TRACK



Alec Zhang

Professor, Department of Physiology, UT Southwestern Medical Center



Changzhi Li

Professor, Department of Electrical and Computer Engineering, Texas Tech University

CANCER IMMUNOTHERAPY, A PROMISING NEW CANCER TREATMENT

Our immune system, consisting of numerous types of immune cells, constantly recognizes and eliminates continuously arising newly mutated cells, preventing us from getting cancer. Nevertheless, this immune surveillance can be overcome by cancer. The cancer can also convert immune cells in the tumor environment from being anti-tumor to tumor-supportive. Fortunately, the most recent progression of biomedical research has enabled us to develop novel cancer immunotherapies that serve as a new generation of therapy for cancer treatment. I will introduce three types of these immunotherapies: immune checkpoint blockade (represented by the PD-1 antibody therapy), CAR-T cells (currently only for blood cancers), and personalized cancer vaccine (still in clinical trials). I will also list examples of ongoing research that looks promising for the advancement of immunotherapy and discuss future perspectives.

Dr. Alec Zhang, Morton H. Sanger Professorship in Oncology and Michael L. Rosenberg Scholar for Biomedical Research at UT Southwestern, earned his B.S. from USTC and Ph.D. from UIUC. After postdoctoral training at MIT, he established his lab at UT Southwestern in 2007. He is studying immune surface molecules and developing novel therapies for cancer treatment. He published >100 peer-reviewed articles, and was a recipient of several awards, including American Society of Hematology Junior Faculty Scholar Award and Leukemia & Lymphoma Society Scholar Award. Several antibodies targeting novel checkpoint proteins developed by his team are in pipeline for therapeutic development.

MODERN SMART RADAR FOR HEALTH AND ACTIVITY SENSING

Portable radar sensors have great potential to improve future healthcare, security, transportation, and human-machine interface, by remotely sensing various life activities with electromagnetic signals. This presentation will first provide an overview of modern smart radar sensors based on advanced electrical and computer engineering technologies such as state-of-the-art semiconductor chips and algorithms. Application examples will be presented on non-contact human vital signs monitoring, wireless human-computer interface, continuous driving behavior recognition, indoor user localization, and activity classification. For smart radar sensors in the healthcare, automotive, IT industry, and for smart living sectors of daily life, measures to enhance their robustness against interference and security attacks will be discussed. Finally, this talk will conclude with future industrial and academic R&D outlooks for smart radar sensors. Changzhi Li is a Professor and Whitacre Chair in Electrical and Computer Engineering at Texas Tech University. His research interests focus on microwave/millimeter-wave sensing for healthcare, security, energy efficiency, and human-machine interface. He was a recipient of the American Society for Engineering Education (ASEE) Frederick Emmons Terman Award, given to one professor in Electrical and Computer Engineering every year. He will be the Technical Program Chair for the 2022 IEEE Sensors Conference to be held in Dallas.



David Lu

Vice President, Network Systems & Automation, AT&T Labs

CONVERGED NETWORK FOR NEXT GENERATION IOT

The rapid advancement in mobile and broadband technology has opened previously unimaginable new use cases. Technology advancements including the convergence of hardware and software, physical and virtual devices, open architecture, industry based APIs, ultrafast speeds with extremely low latency, high capacity, improved reliability and security, and AI enabled sensors are rapidly changing the business landscape. All of these bring forward unprecedented opportunities for entrepreneurship and new applications. This talk will focus on the evolutionary path of converged network technologies, e.g., wireless broadband, fiber broadband, SDN, and 5G, in the past decade and the journey into the next decade that will unleash the power of innovation with extraordinary speed and scale.

David Lu currently leads a global team of more than 2,500 people responsible for the architecture, development and engineering of AT&T's next generation SDN (Software Defined Network) automation platform and open source (Linux Foundation ONAP) enabling AT&T's network virtualization and target network systems transformation including PaaS & SaaS, policy control & orchestration, hyperautomation and AI/ML driven data analytics. He is the recipient of number of industry awards including IEEE CQR Chairman's Award, CIO 100 Award, CIE AAEOY Award, and currently holds 53 patents. He is also a frequent speaker at industry conferences and community forums.

FALL SYMPOSIUM LEADERSHIP AND CAREER DEVELOPMENT TRACK



Chief People Officer, Altair



SVP and CIO, IT Services, Texas Instruments

HOW A STRONG COMPANY VISION & CULTURE PROPELS US IN TIMES OF UNCERTAINTY #ONLYFORWARD

Now more than ever, human resources (HR) is tasked with recruiting and retaining the best talent and keeping culture at the forefront while ensuring the safety and wellness of its employees. The COVID-19 pandemic accelerated the review and adoption of new HR practices, programs, and workplace "norms" globally. Gilma Saravia, chief people officer at Altair, will provide insight into how Altair continues to mobilize efforts to ensure the safety of Altairians, while continuing to foster a culture of risk-taking, innovation, collaboration, and inclusion. Saravia will also share her perspective on how COVID-19 has influenced changes and expectations in the recruitment process, candidate experience, role of leadership, and work-life balance.

As chief people officer, Gilma Saravia leads Altair's global human resources organization, including workforce strategy, talent acquisition and development, and employee engagement. Saravia joined Altair from Aptiv where she served as vice president, global corporate human resources and talent. Previously, she held various senior roles at U. S. Steel and Deloitte's Human Capital consulting group. Saravia has more than two decades of experience in leading large-scale, global teams in organizational effectiveness, talent acquisition and development, and HR transformation at major companies. She earned a bachelor of business administration degree from the University of Texas at Austin and holds various certifications in talent, leadership development, diversity, and inclusion.

REFLECTIONS ON THE PANDEMIC AND HOW TO THRIVE GOING FORWARD

This presentation will focus on three main areas including:

- Reflections on the pandemic in regards to remote work: The focus will include information about changes in the work space/work place, how the workforce has risen to the occasion and some observations and learnings.
- The journey so far (past 18 months): This section will focus on key technology/tools during the pandemic, improvements in our environment to provide a positive remote experience, keeping employees safe and how our teams adopted.
- How to thrive going forward (things to think about post-pandemic): This will focus on how to benefit from things employees have become experts in during the pandemic, the new norm for the work environment and what employees want in a flexible environment, potential challenges to consider and tips to be successful (in any environment).

Gurshaman Baweja, PhD, is a senior vice president and chief information officer of Texas Instruments responsible for the IT Services organization. Prior to this role, he was vice president of TI's Global IT Solutions organization, leading the development and implementation of critical information technology strategies and roadmaps for manufacturing automation, e-commerce and channel management. Previously, Baweja has also led IT for TI's Manufacturing and Supply Chain organizations and served as the company's chief IT architect. Gurshaman started his higher education in India where he received his bachelor's degree in Mechanical Engineering from Punjab University. He received his master's and doctorate degrees in Industrial Engineering from Arizona State University, and a Master of Business Administration from Southern Methodist University. He holds patents in the areas of computer integrated manufacturing, constraint management algorithms and manufacturing process control.

Ellen Buck

VP, Business and Operations Services, Oncor Electric Delivery

TEND YOUR GARDEN: TIPS FOR CAREER MANAGEMENT IN A HYBRID WORKPLACE

Prepare the soil, plant the seeds, nurture, assess, adapt, and reap the harvest – a proven formula for managing a successful garden. There are many parallels to managing a successful career. This analogy can also be adapted to career management in a post pandemic world. How do we apply these principles to a remote or hybrid work setting which includes varying degrees of geographical separation between team members, increasing virtual collaboration, and a multi-generational work force?

This discussion will focus on how we can be intentional about managing our career in a hybrid work setting, including how to develop marketable and transferable skills, network and build lasting relationships, and remain agile and pivot to respond to ever changing business priorities.

As the Vice President of the Oncor Electric Delivery Business and Operations Services organization, Ellen oversees planning for capital investments for the Oncor system; supply chain including sourcing, materials management, facilities management, and supplier diversity initiatives; engineering standards; transmission interconnections; performance management; and Power On. Deliver Strong., Oncor's continuous improvement framework. She is also the sponsor of Oncor's engineering recruiting program.

Ellen holds a BS in Industrial Engineering from Georgia Tech, a MBA with a concentration in Entrepreneurship and Strategy from SMU, and is a registered Professional Engineer in the State of Texas. She currently serves on the Board of Directors of the YMCA of Metropolitan Fort Worth and the CIE/USA-DFW Chapter.



We aim to use our scale, reach, and expertise to help build a more sustainable food system; one that can meet human needs for nutrition and enjoyment, and continue to drive economic and social development, without exceeding the natural boundaries of the planet.

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MOST Science and Technology Division,Taipei Economic & Cultural Off

The Science and Technology Division of the Taipei Economic and Cultural Office in Houston is the representative office of the Ministry of Science and Technology (MOST) of Taiwan in the central U.S. We facilitate collaboration in research, development and innovation between Taiwan and the central U.S.

Mission:

- 1. Promote collaboration in science and technology between Taiwan and the central U.S.
- 2. Provide services on science and technology related businesses in the central U.S.
- 3. Help bidirectional exchanges, recruitment, and visits of young talent, including

undergraduates, graduates, and post-docs in science and technology fields between Taiwan and the central U.S.

4. Help to arrange bidirectional visits of experts in science and technology between Taiwan and central U.S.

- 5. Encourage investments to Science Parks in Taiwan.
- 6. Establish a database of Taiwanese talent in the U.S.

7. Help talent in the central U.S. organize science and technology conferences based on the future development of science and technology in Taiwan.

8. Help to promote programs to recruit talent to Taiwan and international collaboration, such as 2030 Cross-Generation Young Scholars Program, TOP Grants as shown on the next page.

9. Attend science and technology meetings as the representative of Taiwan's Ministry of Science and Technology in the central U.S.

10. Help promote science and technology developments in Taiwan to the central U.S.

Service Area:

Arkansas, Illinois, Iowa, Louisiana, Minnesota, Mississippi, Missouri, Oklahoma, Texas, and Wisconsin

Contact Information:

Science and Technology Division Taipei Economic and Cultural Office in Houston 11 Greenway Plaza, Suite 2018, Houston, TX 77046 Tel: (713)840-3855 E-mail: houston@most.gov.tw Website: https://www.most.gov.tw/houston/en



2030 Cross-Generation Young Scholars Program

The 2030 Cross-Generation Young Scholars Program was established by the Ministry of Science and Technology (MOST) to encourage young research fellows and scholars to engage, on a long-term basis, in research with potential and innovative ideas; to conduct research and exchanges with research institutions overseas; and to establish international collaboration teams, in order to broaden international horizons and establish international influence. <u>https://www.most.gov.tw/most/attachments/6b8e59ca-f04d-4272-abc1-f601328eff03</u>





In an effort to nurture research talents overseas in fields of humanities and social sciences, the Ministry of Science and Technology (MOST) has designed and promoted this program to assist PhD candidates with research potential to stay focused on writing their graduate dissertations when they have reached such stage, as well as to enhance the quality of their dissertations and the level of their research. https://reurl.cc/qmnqbp



Recruitment of Visiting S&T Personnel with Subsidies from the MOST

The Ministry of Science and Technology (MOST) to fund the recruiting of outstanding scientific and technological (S&T) manpower to participate in S&T research projects, serve as teachers in special fields, or assist in the promotion of S&T research & development (R&D) or management work in order to meet S&T development needs. Persons applying for funding to recruit S&T personnel (applicant) must be teaching or research personnel or first-level administrative managers (including the principal investigators of research projects receiving MOST funding) at an applicant institution.

https://www.most.gov.tw/most/attachments/1af64bb1-3863-4ea9-b53a-43e9480646a4





2021 Young Achiever Award (YAA)

The Young Achiever Award (YAA) is one of the flagship programs of CIE/ USA-DFW. The YAA is designed to encourage the younger generations of CIE members to achieve high academic performance, develop leadership skills, develop a strong interest in science and engineering, and excel in extracurricular and community volunteer activities. These well-rounded skills will enable

them to become strong leaders in this very competitive global marketplace and achieve the greatest possible impact in our community.

CIE/USA-DFW is honored to have professionals from various industries to serve as judges in selecting the YAA recipients.



Jenny Hoch





Ivy Chen Plano Senior High School

- 3 vear all state Orchestra violinist
- 6 year all region Orchestra violinist
- Chinese water cube singing competition 3rd place
- World of Dance hip hop competition 1st place overall
- Two-time Inspire and Innovate award winner in FTC Robotics team



Audrey He Plano West High School

- First Place Senior Solo at Showstopper Nationals, 2021
- Scholastic Art and Writing Competition Silver Key x3, 2021 •
- President's Volunteer Service Gold Award, 2020
- ACP Youth Award of Excellence for Community Service and Leadership, 2020
- FIRST Tech Challenge Regional Championships Motivate Award, Connect Award, and Design Award Finalist, 2020



Derek He

Plano West High School

- Roger & Ella Jo Adams Concerto Competition Gold Medalist and Soloist with Allen Philharmonic, 2020
- Senior Division 2nd Place in Vernel Gregg Young Artists Competition, 2021
- 2x TMEA (Texas Music Educators Association) All State Musician Symphony Orchestra 3rd chair 2020-21 and 6th chair 2019-20
- 2021 FIRST Global Challenge Team USA Representative
- President's Volunteer Service Gold Award, 2020



Kai Joshi

Plano West High School

- State swimmer and broke PWSH team relay records
- Team captain of PWSH Varsity Swim Team for two years
- Volunteer over 150+ hours for various charity organizations
- Online English teacher for student abroad
- Saved a child as a lifeguard



Aaron Liu

St. Marks School of Texas

- 2021 Texas Junior Science and Humanities Symposium Category Winner
- Organized robotics coding camp for 100+ underprivileged students
- Captain of VEX Robotics team (multiple state awards)
- 400+ community service hours, 2-time Presidential Volunteer Service Gold Award
- TPSMEA All-State Violinist



Zachary Tian

Texas Academy of Math and Science (TAMS)

- Co-authored a paper on self-supervised adversarial training, IEEE Big Data Security on Cloud, 2021
- UNT Undergraduate research results submitted for the TREC Clinical Trials, 2021
- President's Volunteer Service Award (PVSA) Gold Medal Recipient from 2018 to 2021
- 1st place winner at the UTD STEM Bridge Summer Research Program in 2019
- Clarinet player in the GDYO Wind Symphony (2019) and Philharmonic Full Orchestra (2020 and 2021)



Joy Ting

Highland Park High School

- United States Tennis Association SuperChamp
- Founder and President of the We Can Help, which serves to help teach students in communities.
- UIL Tennis State Title Champion 2020
- Bronze Presidential Service Award (100+ hours of volunteer service a year)
- YWAM Mission Trip



Christine Yan

Greenhill School

- Co-founder of 5C Leadership Foundation, a nonprofit focused on education, communication, community service, and leadership
- 2021 Scholastic Art & Writing National Gold & Silver Medalist
- Short film accepted to 16 national/international film festivals
- National top 10 finalist for Best Dancer of the Year at 2020 Groove Dance Competition
- On the North Texas Food Bank Young Advocates Council



Ashley Zhang

Plano West High School

- Texas Science & Engineering Fair (TXSEF) 2nd Place in Category
- Texas State Solo-Ensemble Contest (TSSEC) 1st Division Rating
- Association for Young Scientists and Innovators VP of Curriculum
- Plano Mayor's Summer Internship Program Ericsson Business/Operations Intern
- 2x Regional Scholastic Art & Writing Silver Key Award

The YAA recipients will be recognized and celebrated at the virtual 2021 CIE-USA/DFW Chapter Annual Convention and YAA Ceremony with a trophy, a scholarship and lifetime CIE/USA-DFW membership. UTA's College of Engineering is a major contributor to the Dallas/ Fort Worth region's economy and workforce.

Our recent designation as a Texas Tier I university is a significant milestone of excellence in academics and research.

We are proud of our connection to the community as we continue to engineer the future of North Texas and beyond.



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2020 CIE/USA-DFW VIRTUAL ANNUAL CONVENTION	36
2021 OFFICERS/VOLUNTEERS ORIENTATION	40
STUDENT ENGINEERING CREATIVITY CONVENTION (SECC)	41
SPRING TECHNICAL SYMPOSIUM WEBINAR	42
EADERSHIP ASSESSMENT MENTORING PROGRAM (LAMP) WEBINAR	43
MATHCOMP/MATHFUN AND PARENTING SEMINAR	44
OUTH ENGLISH SPEECH WORKSHOPS AND CONTEST	46

2020-2021 CIE Events

2020-2021 CIE/USA-DFW EVENTS OVERVIEW

dec 12, 2020	2021 Officers/Volunteers Orientation Tiger Zhou
feb 6&27, 2021 mar 28, 2021	Student Engineering Creativity Convention (SECC) Hua Chen, Xincheng Tang
mar 20, 2021	Mentoring Circle Claire Jung
may 1, 2021	Spring Technical Symposium Yanping Chen, Bryan Taylor
may 8, 2021	Spring Leadership Assessment and Mentoring Program (LAMP) Yanping Chen, Bryan Taylor
jun 5, 2021	Math Comp/Math Fun (MCMF) & Parenting Seminar Yanping Chen, Bryan Taylor
jun 12 & 19&26, 2021	Youth English Speech Workshops and Contest Hong Jiang
sep 18&25, 2021	CIE/USA-DFW Chapter Annual Convention Tiger Zhou, Chris Koh
sep 18, 2021	Technical Seminar JC. Chiao
SEP 25, 2021	Technical Executive Forum Lun Tsuei
sep 25, 2021	Leadership and Career Development Seminar Chris Koh
sep 25, 2021	Young Achiever Award (YAA) Jenny Hoch

2020 CIE/USA-DFW VIRTUAL ANNUAL CONVENTION

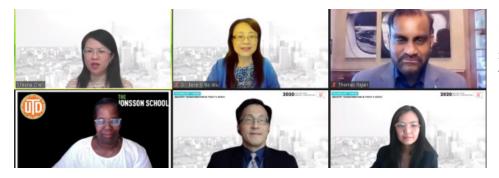


CHAIR Jan Benmard

On August 8-9th, CIE/USA-DFW hosted the virtual fall symposium and annual convention. Hundreds of people registered for this two-day event. Among them, 85% of participants were from DFW area, the rest were domestic guests as far as California and New York.

The theme "Technology Fusion – Industry Transformation in Today's World" aimed to exchange ideas and insights in the world affected by not only technological advances and quickly-evolving complex problems; but also the grand challenges from the emerging global pandemic. On the first day event, our fall symposium is full of technical topics which cover medical, transportation, big data, artificial intelligence and many other areas. Seventy-four percent of attendees were experienced professionals, and the rest were new college graduates and students. It truly reflected CIE's visionto support and develop engineers and technologists.

On the second day of the event, the leadership and career development team invited three speakers from the medical field, academia, and the airline industry to share their inspirations during the pandemic. This event attracted an audience of which 90% were experienced professionals.



First row, left to right: Sheana Chen, Dr. Beverly Bo Wu, and Mr. Thomas Rajan. Second row, left to right: Dr. Stephanie Adams, Dr. Lun Tsuei, and Jan Benmard

The second secon

CIE virtual annual convention took the local event to a national level, with 85% of participants from the DFW area.

2020 FALL SYMPOSIUM TECHNICAL EXECUTIVE FORUM



CHAIR Dr. Claire Jung

The second CIE/USA-DFW Technical Executive Forum was again an invitation-only event, and for the first time was entirely virtual. This year's panelists included Bing Xie, Senior VP of Sales and Applications for Texas Instruments and last year's Forum host, Dr. Zhijian 'James' Chen, Professor and Investigator at the Howard Hughes Medical Institute at UT Southwestern Medical Center, Dr Tsu-Jae King Liu, Dean and Roy W. Carlson Professor of Engineering at the University of California, Berkeley, and Jorge Varela, CEO of Bio North Texas and Managing Director of Altus Vista. Drs Chen and Liu are both AAEOY 2019 Awardees. The audience was welcomed by event chair Dr. Claire Jung, Engineering Director at Texas Instruments and event host Mark Carpenter, Senior Vice President of Transmission and Distribution for Oncor Electric Delivery Company. Dr. Mary Cooley, COO of Dynofit, moderated the panel discussion. We started with questions related to therapeutics and vaccine development for COVID-19, and discussions on various aspects of our lives impacted by COVID-19: changes in education, collaborative research, corporate new product development, and the inspirations in innovation and startup investment. The audience was able to participate in the Forum by submitting live chat questions that were answered by panelists live, and through the Q&A chat feature in real time. The event was well reviewed by attendees with a lot of positive feedback for next year's Forum.



First row, left to right: Panelists Bing Xie and Dr. Zhijian 'James' Chen, CIE-USA/DFW president Dr. Lun Tsuei.

Second row, left to right: Moderator Dr. Mary Cooley, panelists Dr. Tsu-Jae King Liu and Jorge Varela.

Third row, left to right: Dr. Claire Jung, Simon Chang, and Mark Carpenter

2020 FALL SYMPOSIUM

Technical Seminar



HOST Dr. J.-C. Chiao

The seminar was coordinated by Professor J.-C. Chiao, Mary and Richard Templeton Centennial Chair of Electrical and Computer Engineering at Southern Methodist University, and CIE/USA-DFW VP of Technical Programs.

The keynote speech featured Dr. Robert Hendler, a board certified physician and Chief Medical Officer at the Texas Hospital Association and Foundation. Dr. Hendler's talk entitled "Current Challenges in Health Care: We Need Your Help" shared with the audience his insights from the clinical perspective, where engineering innovations are direly needed to help in both long-term healthcare needs and short-term battles with the coronavirus pandemic.

After the keynote speech, Mr. Karl-Heinz Steinmetz, General Manager in Automotive System, HEV/ EV & Powertrain at Texas Instruments, discussed the electrification of vehicle engines, automation and safety, and shared the roadmap for electrical vehicles and their environmental impact in his speech titled "Driving an Intelligent Revolution in Transportation".

Then, Dr. Qiwei Li, Assistant Professor of Statistics in the Mathematical Sciences Department, The University of Texas at Dallas, gave "A Brief Introduction to COVID-19 Forecasting", discussing how his research group models and forecasts the COVID-19 virus infection spread. He shared with our audience interactive real-time prediction and simulation models that can help forecast and potentially preventing the disease spread.



Dr. Robert Hendler



Mr. Karl-Heinz Steinmetz



Dr. Ching-Yung Lin



Dr. Qiwei Li

Lastly, Dr. Ching-Yung Lin, CEO of Graphen, Inc and Adjunct Professor in the EECE Department of Columbia University, gave an overview about how the research by his company monitors and analyses the mutations of COVID-19 viruses in his talk "Live Monitoring of Worldwide COVID-19 Virus Mutations". Graphen tracks 100 countries with reported whole genome sequencing data to identify each virus' evolution chain and their clusters through artificial intelligence (AI). Such mutation and propagation patterns of viruses can help companies better identify drug targets, model geographical spread, coordinate symptoms with virus strains, and predict their threat to public health.

2020 FALL SYMPOSIUM

Leadership and Career Development Seminar



HOST Sheana Chen

On August 9, the Leadership and Career Development seminar featured three invited speakers and panelists to discuss the current and future state of professional development and career paths. The seminar was coordinated by Ms. Sheana Chen, who is a senior legal executive in semiconductor companies and also Policy Advisor for CIE/USA-DFW.

The first speaker Dr. Beverly Bo Wu, Staff Psychiatrist and Associate Director of Psychiatric Emergent Department at Parkland Hospital and Assistant Professor at the University of Texas Southwestern Medical Center, presented her talk "Coping with Anxiety in the Era of COVID-19". She discussed anxiety and related symptoms, the metal health crisis found in different geographical areas and related research activities, particularly due to the pandemic.

She shared with the symposium audience how to reduce the feeling of anxiety and stress through personal efforts as well as receiving help from professionals. Dr. Stephanie Adams, Dean of the Erik Jonsson School of Engineering and Computer Science at University of Texas at Dallas, shared her thoughts about the roles of engineering educators, research in transforming educational experiences, and her advice to students and young professionals for the challenges in the coming decades in her talk "Channeling Leonardo: What 21st Century Engineers and Scientists Need to Be Successful".

The third speaker Mr. Thomas Rajan, Managing Director of Global Co-Brand Partnerships at American Airlines, in his speech "The Four Letter Word You Don't Want to Hear...But Should More Often" shared with everyone his experience about achieving true leadership potential while supporting the team needs, and the impact of leaders and their roles in an organization. The three speakers in the panel session answered audience's inquiries in through a live Q&A chat featured which covered a wide scope of questions from personal growth, mental health, social communication, to professional development and future outlooks.



Top-row, moderator Sheana Chen and Dr. Beverly Bo Wu. Bottom-row, Mr. Thomas Rajan and Dr. Stephanie Adams.

2021 OFFICERS/VOLUNTEERS ORIENTATION



CHAIR Tiger Zhou

The CIE/USA-DFW chapter held its first online 2021 Officers / Volunteers Orientation on Saturday, December 12th, 2020. The main goal was to introduce CIE's history as well as the chapter's bylaws, policies, ethics to the 2021 officer team and new volunteers. It also presented an opportunity for the officers and volunteers to meet each other and understand each of the individual function's roles and responsibilities.

Our 2021 DFW Chapter President, Dr. Tiger Zhou, kicked off the orientation session and welcomed a diverse volunteer team from many engineering fields. Dr. Faa-Ching Wang, the chapter founder, was invited to present the CIE/USA-DFW chapter's history and vision.

Next, CIE advisors Sheana Chen and Grace Tyler gave a brief overview of the chapter's bylaws, policies and ethics using several hypothetical cases as examples to demonstrate the ideas presented. Finally, CIE advisor Claire Jung introduced the mentoring circle program which was designed to provide mentorship to CIE officers and volunteers in career and personal development.

After a short quiz , 2020 President and 2021 Chairman of the Board, Dr. Lun Tsuei gave a review of the 2020 programs and achievements.

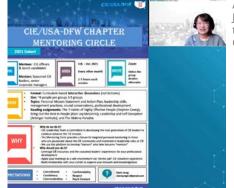
The last session of the event was to invite each of the new 2021 officers to give a brief self-introduction and explain their roles and responsibilities. A total of 30 CIE officers and volunteers attended this online orientation. Video clips and interactive games were played throughout the whole presentation. It received an excellent poll score of 4.72 out of 5 from the attendees.



Thanks to the 2021 officers and volunteers who attended the orientation! Lots of hard work ahead for everyone this year.



A guide for frequently encountered situations Eliminate potential problems Enhance operational effectiveness Advisors Sheana Chen and Grace Tyler presenting CIE ethics and policies with 5 role-playing scenarios



Advisor Claire Jung introduced the Mentoring Circle program

STUDENT ENGINEERING CREATIVITY CONVENTION (SECC)







CHAIR Xincheng Tang

CIE/USA-DFW successfully held the 4th annual SECC on Sunday, March 28th, 2021. This was the first online SECC in order to maintain everyone's health and safety during COVID-19 as well as the first time we co-hosted the event with another non-profit organization, Share and Grow Association from Oklahoma. Hosting this event online expanded CIE/ USA-DFW's impact to students outside the Dallas-Fort Worth Metroplex, including participants from Oklahoma. The SECC is a flagship youth program of CIE/USA-DFW, featuring engineering competitions for students in grades 1-12, two workshops and one Q&A workshop. The goal of the program was to help students to develop their interest in Science, Technology, and Engineering, and to be creative when solving challenges.

This year, we developed two projects: the Division A project (Marble Machine) for students in 5th grade and under, and the Division B project (Raspberry Pi Plotter Machine) for middle and high school students. For the Division B project, we further expanded the project to encourage the students to be creative and to come up with their own engineering ideas using the Raspberry Pi. This workshop attracted more than 100 participants and a record number of contest registrants.

The competitions attracted 24 elementary school teams in the "Marble Machine" project and 17 middle school/high school teams in the "Raspberry Pi" project. On the event day, 20 teams competed in the Division A project and 11 teams competed in the Division B project. Jan Benmard was the event host and had very successful interview sessions. CIE/USA-DFW presented 11 trophies and medals to the Division A winners and 5 trophies to the Division B winners.

Division-A	1 st Place	2 nd Place	3 rd Place			
Group 1	Wilson Zhou	Erica Weng	Aiden Guo and Angela Guo			
(K-2 nd)						
Group 2	Melissa Zhou	David Xiao	Aurora Cai			
(3 rd -5 th)	ZHOU					
Honorable Mention	Jayden Lu, Benjamin Kim, Andy Wang and Mindi Ly					
Creativity	Zoe Cheng and Edward Yan, Kaylee Zhao and Nidhi Keskar, Hudson Aarseth					

Division-B	1 st Place	2 nd Place	3 rd Place
Plotter Machine	Jackson Aarseth	Andrew Ye	Michael Liu
Creative Project	Matthew Liu and Everett Jin	Kathy Liu and Charles Liu	





Above, Jackson Aarseth presented his plotter machine project using Raspberry Pi

Left, Wilson Zhou demonstrated his marble machine

SPRING TECHNICAL SYMPOSIUM WEBINAR







CHAIR Bryan Taylor

The Spring Technical Symposium Webinar was held on Saturday, May 1st, 2021.

The 2021 CIE/USA-DFW Spring Technical Symposium "Resilience and Sustainability for the Future" aimed to present and exchange ideas about the efforts to strengthen the resilience and sustainability to meet the future needs of prosperity. Three scientific and engineering experts from high-tech companies and academic institutes in the DFW Metroplex shared their research, innovations, thoughts, and vision in their respective fields of batteries, power infrastructures, and energy resources.



Sam Wong Product Line Manager, Battery Charging Products, BMS, Texas Instruments



Dr. Mohammad E. Khodayar Associate Professor, Electrical and Computer Engineering, Southern Methodist University



Dr. Allan Zhong Distinguished Scientist, Halliburton The first speaker in the technical session was Sam Wong, Product Line Manager, Battery Charging Products, Battery Management Solutions, at Texas Instruments. His speech, "Sustainable Power with Energy Harvesting for IoT Applications", discussed that one of the challenges of smart homes or factories is to provide endless power to run IoT nodes.

It is cost prohibitive to power them with wired power or battery power which requires routine charging. Energy harvesting that leverages sustainable sources such as solar or ambient light becomes the only viable solution.

The next speaker was Dr. Mohammad E. Khodayar, Associate Professor, Electrical and Computer Engineering, at the Southern Methodist University. His speech was "Energy Supply Resilience and Economics: Transition toward Active Distribution Networks and Microgrid Technology". This presentation addressed the benefits, opportunities, and challenges of integrating and operating microgrids in distribution networks.

The third and final speech in the technical session, "Reducing Carbon Footprints Through Innovation in Oil/Gas Industry", was given by Dr. Allan Zhong, Distinguished Scientist, at Halliburton. He discussed how the oil/gas industry is helping to combat global warming through transitioning into clean energy and reducing its carbon footprint through innovation.

LEADERSHIP ASSESSMENT MENTO-RING PROGRAM (LAMP) WEBINAR



CHAIR Yanping Chen



CHAIR Bryan Taylor

The Leadership Assessment Mentoring Program (LAMP) Webinar was held on Saturday, May 8th, 2021. The LAMP program started with Mr. David Lu, Vice President, Network Systems & Automation, AT&T Labs. His talk "A Journey from Musician to Technology Executive – Unleash Your Full Potential" provided insightful advice tips on how to discover your true self, unleash your full leadership potential, and fulfill your dream.



Top row, Chris Koh and Alex Machoka Bottom row, David Lu and Bing Xie

The next speaker, Mr. Bing Xie, former Senior Vice President/Executive Officer at Texas Instruments, delivered a talk with the topic of how to "Thrive In Time Of Uncertainty". He shared how to improve one's tolerance and thrive amid uncertainty, since Covid-19 has introduced a lot of changes to our professional and personal lives.

The third speaker, Mr. Alex Machoka, Senior Director, Transmission Operations at Oncor, discussed the topic "Inevitability of Change: Intersection of Leadership and Generations in the Workplace". He shared many practical tips on how to effectively lead multiple generations especially for young leaders leading older employees, who in most cases have more functional experience.



Mr. David Lu Vice President, Network Systems & Automation, AT&T Labs

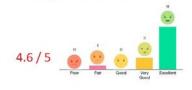


Mr. Bing Xie Senior Vice President/Executive Officer, Texas Instruments (ret)



Mr. Alex Machoka Senior Director, Transmission Operations, Oncor

How do you rate this event?



The program continued with a Q&A Panel discussion with the three LAMP speakers as panelists. They addressed many questions submitted online from the audience.

This LAMP webinar was moderated by Chris Koh. The Spring technical symposium webinar and LAMP webinar were chaired by Yanping Chen and Bryan Taylor. The event received excellent feedback from our attendees, and was rated 4.6 out of 5. We would like to thank our volunteers and generous sponsors for this event!

MATHCOMP/MATHFUN AND PARENTING SEMINAR



CHAIR Jan Benmard

CIE/USA-DFW successfully held its 32nd annual MathComp/MathFun program on Saturday, June 5, 2021. It is CIE/USA-DFW's flagship youth program, featuring a math competition for students from 1st through 8th grades, a parenting seminar, and a math fun fair. This program helps students to discover and develop their interest in Science, Technology, Engineering, and Mathematics (STEM).

This was the second year that the event was held online in order to maintain everyone's health and safety during COVID-19. More than 250 contestants participated in MathComp (the math competition), which was held via an online exam tool, with each grade level

In the afternoon, over 230 parents and guests attended a separate parenting seminar and panel discussion. The theme of the parenting seminar was "STEM Education". Opening remarks were given by Tiger Zhou, President of CIE/ USA-DFW. Shawn Xiong served as the Master of Ceremony and moderator for this session, with four panelists including Dr. Jian Shen (Associate Chair of Department of Mathematics, Texas State University), and students Alay Shah, Amy Guan, and Jennifer Xiong. After the speeches, the panel discussion drew many interesting questions from the audience. The topics ranged from how to stimulate students' interests in math to how to balance school and extracurricular activities.

hosted in its own respective sessions. Hosting this event online expanded CIE/USA-DFW's impact to students outside the Dallas Fort Worth Metroplex, including participants from Oklahoma, Washington, California, Florida, and more. As the contestants took their tests online, the proctors monitored the contestants virtually via webcam. Contestants then participated in MathFun through the online platform Kahoot.

The students also participated in a series of games and interactive activities designed to broaden their critical thinking skills and learn to apply mathematics to real life. Students also had options to play Jeopardy or a Choose Your Own Adventure game.

	Gold Award	Silver Award	Honorable Mentioned
e	Cyrus Kuang	Angela Guo	Dion Sun
Grade		Daniel Chi	Sixuan Du, Kelley Cai
	Tommy Li	Isabella Song	Eric Dong
a	Hannah Wu	Hanson Lou	Allen Nai
Grade	Jade Chen	Aaron Tu	Daniel Huang
0		Kevin Zhou	Charlie Zhang
		Ally Jin	Mingyuan, Yeewei Yap
2	Shaheem Samsudeen	Avni Gautam	Emma Yang
5	Lillian Ye	Benjamin Dong	Leonardo Martinez
,	Ethan Jia	Yifei Mei	Neal Stevens
)	Nathan Lee	Avahan Gautam	Avery Hu
e	Colin Wei	Yuqi Zhou	Nathan Liu,Joshua Shu
4 th Grade	Ian Song	Melody Jing	Karen Li,Andrew Huang
		Cody Li	Ethan Ye,Madeline Xing
J	Bryan Kuang	Jay Yi	Prajit Saravanan,Zoe Cheng
5 th Grade	Calvin Jiang	Owen Xie	Edward Ni,Kyle Z. Lin
,	Devin Li	Arka Rebbapragada	Bryan Li,Eric Liu
,	Bryan Fu	Evan Tsai	William Tu,Ryan Nam
e	Michael Chang	Shourya Vyas	Claire Wu,Katie Ma
Grade	Leo Li	Yeening Yap	Keshav Anand,Chris Pan
9		Nicholas Huang	Jeffrey Xu,Jenny Chu
e	Aaron Kuang	Kayden Zhong	David Zhang
Grade	Ethan Poon	Edward Mou	David Liu,Alicia Gu
0		Eric Qian	Arun Rebbapragada
e	Audrey Perry	Matthew Xie	Ethan Zhang
Grade	Jessie Wang		Joshua Ye
	Jonathan Wang		Yifan Wang

MathComp/MathFun 2021 was chaired by Jan Benmard. The program committee and CIE/USA-DFW would like to express our sincere appreciation to all the volunteers and corporate sponsors - Oncor, Texas Instruments, Cathay Bank Foundation, and AoPS Academy for their contributions to make this event a great success!

Hong Jiang was the Master of Ceremony for the awards ceremony. CIE presented "Gold" and "Silver" trophies to 50 winners, who were ranked in the top 20% of their grade. In addition, 50 students received honorable mention medals. Congratulations to the award winners!



Q&A Session during the parenting seminar



MCMF Award Ceremony



YOUTH ENGLISH SPEECH WORKSHOPS AND CONTEST



CHAIR Hong Jiang

The Youth English Speech program was hosted by the CIE/USA-DFW Chapter and organized by the Texas Dragon Toastmasters Club. It was sponsored by Oncor, Texas Instruments, and Cindy's NY Deli.

The goals of the Youth English Speech contest are to stimulate young students' interests in public speaking, and to boost their confidence and competence from an early age. The Youth English Speech Contest has served the DFW community for over 10 years. Every year it attracts over 100 students from 1st to 12th grade to compete in this great contest.

This year was the first time the Youth English Speech Contest was held online, which made it more convenient for many participants. Contestants from three different time zones participated in the event and the committee was able to overcome big challenges in organizing and running the contest in a new environment.

Ten committee members started preparing for this event in March. They worked numerous evenings and weekends to learn new technologies for holding an online contest.

There were two knowledge transfer sessions with previous MathComp/MathFun and Speech Workshop chairs, held after the committee's kickoff meeting.

Together, the committee learned how to use new tools such as Eventbrite, Zoom, Google Sheets, Google Forms, Slack, and Excel. To keep a fair and high-quality contest, we recruited Distinguished Toastmasters and speech contest winners to give tutorial speeches in two workshops.

Topics included:

- How to choose a topic / organize a speech
- How to use vocal variety
- Your body talks
- Simple Power of Gestures
- Attitude demo speech
- 8 student practice speeches



Workshop 1: Committee and demo speakers delivered topics



Workshop 2: Committee and demo speakers delivered topics

The Chief Judge, Jen Hoch, presented the speech contest judging criteria. The transparency of judging standards not only ensured fairness to all contestants but also gave students and parents detailed quantitative instructions on how to prepare speeches for the contest. This topic received great feedback during the workshops.

More than 30 experienced speech judges and contest masters volunteered to help in this event. Many of them had served as judges or contest masters at a variety of levels at Toastmasters speech contests. The Chief Judge and Contest Master Chairs worked creatively to provide an easy and effective work process for the online contest.

More than 60 community volunteers registered to support this event. There were training sessions, practice sessions, and rehearsals provided to all volunteers to guarantee a smooth event day on Saturday, June 26. This program attracted close to 700 zoom users in all three events.

There were 104 contestants grouped in 9 Zoom breakout rooms based on their grade levels. The contest ran for 2 hours. After a long session of judges' debates, a total of 27 trophy winners and 26 honorable mention winners were announced.

This contest was a great experience for all participants, and according to a Zoom poll, 90% of the poll participants would attend future Youth English Speech Contests. It was also a valuable learning process for the committee members, who learned so much about teamwork, leadership, and communication skills. The committee is proud of their contribution to the DFW community.

2021 YOUTH SPEECH CONTEST WINNER



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50

ABOUT CIE	51
ABOUT CIE/USA-DFW CHAPTER	51
2021 CIE/USA NATIONAL COUNCIL	52
2021 CIE/USA-DFW OFFICERS, BOARD & ADVISORS	53
2021 ANNUAL CONVENTION PLANNING COMMITTEE	54

2021 CIE Committee

ABOUT CIE

Mission - Chinese Institute of Engineers (CIE/ USA) is dedicated to promoting engineering and scientific excellence, professional advancement and leadership development of Asian- Americans.

History - The Chinese Institute of Engineers was founded in 1917 in New York by a group of Chinese engineers who graduated from American universities and served in various industries in the United States. The main organization moved back to China during World War II, then moved to Taiwan. The American counterpart became a separate chapter. In 1977, the institute was renamed the "Chinese Institute of Engineers, USA (CIE/USA)," with a mission to serve members from all over the United States. Since then, seven area chapters, namely the Greater New York, San Francisco-Bay Area, Seattle, Dallas-Fort Worth, OCEESA, New Mexico, and Southern California chapters have been established.

CIE/USA works with other professional organizations to sponsor events, such as venture capital and management seminars, technical conferences, and high-tech exhibitions, and to promote joint interests and partnership in technology among the US, China and Taiwan. CIE/USA also co-sponsors the Sino-American Technology Engineering Conference (SATEC) in Beijing and the Modern Engineering and Technology Seminars (METS) in Taipei every other year.

ABOUT CIE/USA-DFW CHAPTER

The Dallas-Fort Worth Chapter was established in January, 1989 and registered in the state of Texas as a non-profit organization in 1992. Over the years, the CIE/USA-DFW chapter has established close ties with major corporations and government bodies around the world. Leaders from these sponsoring organizations highlight every year's convention by sharing their experience and insight in business and technology at our evening banquet.

The mission of CIE/USA-DFW is to enable the growth of current and aspiring engineers and technologists by providing a platform for technical exchange, professional networking, and STEM awareness.

Benefits of CIE/USA-DFW Chapter Membership

Technical Advancement - DFW Chapter provides firsthand and first class technical information through our members' affiliation with high-tech industries in the global market and international business.

Networking Opportunities - Attending DFW Chapter sponsored seminars and social activities within each technical group provide abundant networking opportunities.

Employment Opportunities - Attending DFW Chapter job related seminars and networking with our members who are managers in local Fortune

500 companies provides potential employment opportunities.

Special Discounts - DFW Chapter members enjoy discounts on attending the DFW Chapter annual convention and DFW Chapter sponsored events and activities. Discounts are provided by our sponsors and vendors.

CIE Website - The DFW Chapter website (www. cie-dfw. org) provides news and highlights of DFW Chapter sponsored technical and non-technical seminars and notices of DFW Chapter sponsored business, educational, cultural, and social programs.

Sign up our newsletter, follow us on Facebook and LinkedIn, and watch the event programs on our YouTube channel.

Join us as a member of the CIE family!



2021 CIE/USA NATIONAL COUNCIL

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53



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