

2023

September 30th

CIE/USA-DFW
ANNUAL CONVENTION



Technology Fusion

ARTIFICIAL INTELLIGENCE IN ACTION

Chinese Institute of Engineers/USA Dallas - Fort Worth Chapter
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Letter

from the

Presidents

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

On behalf of CIE/USA-DFW, we extend a warm welcome to you for the 2023 Annual Convention. 2023 has been a year of growth, collaboration, and transformative change. This year's theme, "Artificial Intelligence (AI) in Action," signifies our commitment to harnessing technology and innovation to maximize our community impact. Artificial Intelligence (AI) has the potential to amplify our impact. It is essential that we leverage AI technologies to achieve our goals efficiently and effectively while staying true to our core values.

Late last year, more than two years after the start of the COVID pandemic, we started an initiative to re-engineer several of our processes, including how we recruit, engage, and recognize our volunteers, and how we plan and support our events. With innovation in mind, we established a five-person Presidential Committee. This committee, with its wealth of historical knowledge and years of experience, agreed to share responsibilities and collaborate effectively.

Our 2023 President Team, comprised of five dedicated individuals: Dr. Xinfen Chen, Dr. Lun Tsuei, Grace Tyler, Dr. Tiger Zhou, and Jen Hoch, alongside the guidance of Dr. Chris Koh, Chairman of the Board, has been diligently working to achieve our goals of 1) the establishment of a talent pipeline that will provide the leadership required for future CIE/USA-DFW programs and 2) delivering high-quality programs with the available resources.

The success of our organization hinges on the dedication and capabilities of its leaders and volunteers. We recognize that nurturing talent within our organization is pivotal for long-term sustainability and growth. We are acutely aware of the finite nature of our resources and understand that responsible management is crucial to maintain our credibility and fulfill our mission.

The annual convention is our organization's way to celebrate our successes: In October 2022, instead of our traditional formal dinner (CIE/USA-DFW Night), we hosted a Volunteer Appreciation picnic at Bob Woodruff Park in Plano. Over 100 volunteers and their families came together for food and fun, including a friendly cooking competition judged by the participants.

CIE/USA-DFW's Officer and Volunteer Orientation, held on March 12, was a high-energy, interactive event. Participants were divided into five teams for a Shark Tank-like activity to plan an event for young professionals, resulting in amazing ideas and concept planning.

In June, CIE/USE-DFW successfully hosted a Youth English Speech Contest and a Youth Chinese Speech Contest, showcasing students from DFW. These events provided students with the opportunity to learn and practice public speaking skills that will benefit them for a lifetime.

In July, CIE/USA-DFW hosted a "Mentoring Workshop for Young Professionals." It was an opportunity to network with and learn from industry leaders about Career Change & Advancement, On the Job Networking, and Work-Life Balance.

In August, we successfully combined two separate CIE/USA-DFW events: the Student Engineering Creativity Convention (SECC) and the MathComp/MathFun (MCMF) event into ONE Youth STEM Convention. This combined event brought together young minds from diverse backgrounds, fostering collaboration. As part of this event, the Parenting Seminar showcased 4 young students with STEM talent (3 were prior year Young Achiever Awardees), a keynote speaker, and a Q&A Session.

This year, we continued our Mentoring Circle program designed to develop participants' leadership skills with the goal of encouraging them to serve CIE/USA-DFW as officers or event chairs. A commitment to mentorship has strengthened leadership skills, ultimately increasing volunteer retention.

We are profoundly grateful to our sponsors for their trust and support, to our volunteers for their dedication, and to the board and advisors for their guidance and patience. We owe a debt of gratitude to the 2023 officers and event chairs for their partnership, support, and friendship throughout this journey.

Finally, we would not have an annual convention without the participation of attendees, so we extend our heartfelt thanks to you for joining us today. We hope you find the convention's program both informative and enjoyable.

Yours Sincerely,



Jen Hoch 2023 Co-President CIE/USA-DFW Chapter

If you want to go fast, go alone, if you want to go far, go together." African Proverb



Co-Presidents from left to right: Dr. Tiger Zhou, Dr. Xinfen Chen, Grace Tyler, Jen Hoch, Dr. Lun Tsuei

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2023 Annual Convention

SEPTEMBER 30TH AGENDA

Annual Convention

12:00 pm – 3:00 pm

Career Development Round Table

3:00 pm – 5:00 pm

Technical Executive Forum (by invitation)

5:00 pm – 6:00 pm

VIP Reception (by invitation)

6:00 pm – 9:00 pm

Dinner Banquet

- **CIE Presents: Point/Counterpoint** (Debate)*
- **Keynote Speech**
- **Special Recognition**
- **Young Achiever Award**

*Topic: Artificial Intelligence - Friend or Foe?



Bryan Taylor

Convention Co-chair



Tina Zhang

Convention Co-chair

Career Development Roundtable

Student Session

12:00 pm - 12:30 pm

Lunch

12:30 pm - 12:50 pm

Kick Off

12:50 pm - 1:00 pm

Panel Introduction

1:00 pm - 1:45 pm

Career Planning

1:45 pm - 2:15 pm

Resume Critique

2:15 pm - 2:45 pm

Mock Interview

2:45 pm - 3:00 pm

Feedback from Attendees

Closing Remarks



Batuk Bista

Career Development
Roundtable Chair

Young Professional Session

12:00 pm - 12:30 pm

Lunch

12:30 pm - 12:35 pm

Kick Off

12:35 pm - 12:45 pm

Panel Introduction

12:45 pm - 1:05 pm

Begin Round 1

1:05 pm - 1:40 pm

Round 2

1:40 pm - 2:00 pm

Round 3

2:00 pm - 2:20 pm

Round 4

2:20 pm - 2:40 pm

Round 5

2:40 pm - 3:00 pm

Feedback from Attendees

Technical Executive Forum

3:00 pm - 3:05 pm

Opening Remarks

3:05 pm - 3:25 pm

Panel Introduction

Gaurav Shekar, Assistant Dean, Naveen Jindal School of Management, The University of Texas at Dallas

Jose Alvarez, Global Head of Market Areas, Intelligent Automation, AI-Transformation, Ericsson Inc.

Dr. Hasan Pirkul, Dean, Naveen Jindal School of Management, The University of Texas at Dallas

Panna Sharma, President, CEO and Board Member, Lantern Pharma Inc.

Samuel Wong, Vice President and General Manager of Battery Management Solutions Division, Texas Instruments Inc.

3:25 pm - 4:25 pm

Panel Discussion

4:25 pm - 4:55 pm

Q&A

4:55 pm - 5:00 pm

Closing



Dr. Pooya Forghani

Executive Forum Host

VP and General Manager,
Power Management Products,
Diodes Inc.

CIE Presents: Point/Counterpoint Artificial Intelligence: Friend or Foe?

7:15 pm - 7:25 pm

Debate #1

Bo Gu vs. Jason Ballengee

7:25 pm - 7:35 pm

Debate #2

Shahmeer Mirza vs. Josh Power



Bryan Taylor

Point/Counterpoint Chair

Career Development Roundtable



CHAIR

Batuk Bista

The CIE/USA-DFW Career Development Round Table program is committed to empowering young professionals in critical aspects of their careers. Our focus areas include stress management, presentation skills, workplace networking, career planning, and career transitioning. Through this initiative, we bring together industry leaders and experts for intimate discussions about their professional journeys, providing valuable insights for participants.

Each round table session is led by experts in their respective fields. DaWane, renowned for his presentation and storytelling skills, will guide us in the art of compelling storytelling. Jackson from AT&T will share his insights and experiences regarding effective workplace networking. Nakshyatra from Texas Instruments will offer invaluable guidance on career planning and transitioning. Additionally, we'll have resources available to assist with stress management and achieving a work-life balance.

Furthermore, our program extends its support to college students preparing to enter the job market. Our panel of experts will offer tips and techniques for successful interviews, conduct resume critiques, and organize mock interviews with feedback sessions, time permitting. Actively participating in this program will equip college students with the readiness and confidence needed to excel in job interviews and enhance their chances of securing fulfilling employment upon graduation.

As a special highlight, we're honored to host Dr. Peter E. Crouch, the dean of the College of Engineering at UT Arlington, as our keynote speaker. His presence underscores our commitment to providing exceptional guidance and opportunities for professional growth. Join us in this exciting journey of personal and career development.

University Student Section:



Dr. Peter Crouch

Dean, College of Engineering
The University of Texas at
Arlington

Keynote speaker

Dr. Peter E. Crouch joined the University of Texas at Arlington (UTA) in August 2016 as the dean of the College of Engineering and a professor of electrical engineering. Throughout his extensive career, Crouch has served as a dean at Arizona State University and the University of Hawai'i at Mānoa, accumulating 21 years of leadership experience. Originally from England, he earned his undergraduate and master's degrees from Warwick University and completed his Ph.D. at Harvard University in applied sciences. In his previous roles, he successfully engaged major corporations such as Intel, Boeing, Northrop Grumman Corp., and Motorola to advance engineering education.

Career Development Roundtable



Jackson Ku

Lead Member of Technical Staff, Network CTO, AT&T

Workplace Networking

Jackson has over 25 years of technical expertise. Jackson is a strong advocate for diversity, equity, and inclusion, earning recognition and awards for his commitment, including the 2022 Individual Outstanding Community Service Award from CIE/USA-DFW Chapter and the 2023 Asian American Engineer of the Year Award from CIE/USA. He holds an MS in Electrical Engineering from UCLA, an MBA from UC Irvine, and a Master's in Information Security from Champlain College.

Presentation Skills

DaWane Wanek is a great presenter, a great storyteller, and a Distinguished Toastmaster. He is a highly accomplished Toastmasters member who began his Toastmasters journey in 2016. He is passionate about telling stories in many ways. He won the D50 Humorous Speech Championship. He is a dedicated mentor and he has transformed many new members' personal and professional lives. Besides public speaking, he is a great leader and has held various officer roles including Division Director and District Director.



DaWane Wanek

Distinguished Toastmaster
Retired Palo Alto Network



Nakshatra Gajbhiye
IPP-PMIC Product Line
Manager,
Texas Instruments, Inc

Career Transitioning

Nakshatra Gajbhiye is currently a Product Line Manager within the Analog Power Products business at TI. She joined Texas Instruments as a Design engineer where she worked on products for personal electronics and industrial markets. Nakshatra was elected to the TI Technical Ladder in 2016 and holds three patents. She has driven TI-level initiatives that focus on New Product Development, Demand Creation, and Talent Development.

Career Ladder

Kimberly is currently the Sr. DEI Consultant for Oncor, where she has been employed for the past 14 years. Kimberly's career started at Alliance Data as a training specialist. Kimberly is a change leader. She champions the conversation of diversity, equity, and belonging, and guides Oncor's workforce on a journey of understanding and inclusion. She holds a business degree from Texas Southern University and is passionate in developing young professionals.



Kimberly Traylor
Sr. DEI Consultant
Oncor

TECHNICAL EXECUTIVE FORUM

“TECHNOLOGY FUSION: ARTIFICIAL INTELLIGENCE IN ACTION”

FORUM HOST



Dr. Pooya Forghani

FORUM MODERATOR



Gaurav Shekhar

FORUM CHAIR



Dr. Chris Koh

PANELIST



Jose Alvarez

Global Head of Market Areas,
Intelligent Automation,
AI-Transformation
Ericsson Inc.



Dr. Hasan Pirkul

Dean, Naveen Jindal School
of Management (JSOM)
The University of Texas at
Dallas



Panna Sharma

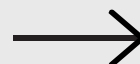
President, CEO,
Board Member
Lantern Pharma Inc.



Samuel Wong

VP and General Manager,
Battery Management Solution Div.
Texas Instruments Inc.

Panelists will begin this interactive discussion by sharing their perspectives on Artificial Intelligence and insights on AI's challenges, potential solutions, and opportunities. Attendees will have the opportunity to ask questions and interact with the panelists.



HOST AND PANELIST PROFILES



Dr. Pooya Forghani

FORUM HOST

Dr. Pooya Forghani is currently the Vice President and General Manager for the Power Management Products (PMP) division at Diodes Inc. where he manages Diodes Inc. investment, strategy, and business for power IC products focusing on developing highly efficient solutions for auto, industrial, and computing markets.

Prior to Diodes Inc., Dr. Pooya worked at Texas Instruments for 18 years, holding numerous business and engineering leadership roles developing analog and mixed-signal semiconductor products. Pooya has a PhD in Electrical Engineering from Georgia Tech with a focus on power IC designs. He holds eleven US patents and has multiple publications in the field of semiconductors.

Jose A. Alvarez, Global Head of Market Areas, Intelligent Automation, AI-Transformation, Ericsson Inc. was born in Mexico City and received his Engineering Degree in Digital Systems and Electronics. He moved to the US 28 years ago and earned an MBA from the University of Texas at Dallas.

As a global automation and AI/ML transformation leader, Jose is responsible for transformation and business development, strategy implementation, and global solutions-products-tool. He is a champion for transformation and engagement for all market areas, customers, P&L, Operations, etc. As a cross-functional leader for collaboration and partnerships with different units and stakeholders on all levels, Jose influences strategies, objectives, and targets to accomplish local and corporate goals. He has led multiple complex/enterprise-wide programs and demonstrated leadership in sourcing, supply, and implementation of local, regional, and nationwide programs.

Jose enjoys restoration of classic cars, do-it-yourself home projects, and small electronics maintenance/repair.



Jose Alvarez

PANELIST



Dr. Hasan Pirkul

PANELIST

Dr. Hasan Pirkul is the dean of the Naveen Jindal School of Management (JSOM) at the University of Texas at Dallas. He concurrently holds the Caruth Chair of Management. Since joining in 1996, Dr. Pirkul has led JSOM through tremendous growth to increasing stature. He oversaw the construction of the school's \$38 million facility and helped direct the building of a \$25 million addition that provides 50 percent more space for the University's largest school. He is presently working on the third addition to the Jindal School. Under his leadership, the school's academic programs are ranked as high as the top 10 by Bloomberg Businessweek, The Princeton Review, and U.S. News & World Report.

As a teacher, Dr. Pirkul said he's proud of advising 16 Ph.D. students, many of whom have gone on to become successful academics. His research interests include the design of telecommunication networks, distributed computer system design, knowledge-based systems, locating facilities, neural networks, and genetic algorithms. He is the founding co-editor-in-chief of the Journal of Information Technology and Management.

Dean Pirkul received a bachelor's degree in industrial engineering from Bogazici University in Turkey. He earned his master's in management science and Ph.D. in computer information systems at the Simon School, University of Rochester. Before joining UT Dallas in 1996, he taught at The Ohio State University.

HOST AND PANELIST PROFILES

Panna Sharma is the President, CEO, and Board Member of Lantern Pharma Inc., a clinical-stage oncology biotech using artificial intelligence (AI) and genomics to innovate the rescue, revitalization, and development of precision cancer therapeutics.

As Chief Executive Officer, Panna is responsible for developing Lantern’s strategic vision, and working closely with the Board and key investors to raise the capital and attract the talent that will place the Company at the forefront of using AI and genomics in developing its pipeline of precision therapies.

Prior to joining Lantern in 2018, Panna was the President and Chief Executive Officer of Cancer Genetics, Inc. (Nasdaq: CGIX), a provider of genomic and immune-based cancer diagnostics and therapy development services to some of the most prestigious medical institutions and pharma companies in the world. Panna attended Boston University in the University Professors Program and focused his studies on the Philosophy of Science, Neural Networks, and Artificial Intelligence.

PANELIST



Panna Sharma



Samuel Wong

PANELIST

Samuel Wong is vice president and general manager of the Battery Management Solutions Division of Texas Instruments Inc. He has over 10 years of experience driving innovation at TI across battery charging, gauging, and monitoring products. He holds a bachelor’s degree in electrical engineering from the University of Texas at Austin and a master’s degree in electrical engineering from the University of Texas at Dallas.

Gaurav Shekhar is the Assistant Dean of the Graduate Programs at the Naveen Jindal School of Management. He is also the Program Director of the Graduate Business Analytics Program at the University of Texas Dallas. He is an Assistant Professor of Instruction in the Information Systems area and teaches courses like Business Intelligence, Digital Consulting, and Robotic Process Automation to both Graduate and Undergraduates. He is a two-time TEDx speaker and was named the 40 Under 40 by the Dallas Business Journal in 2023. He was also named 40 under 40 Data Leaders for the year 2022 by the CDO Magazine.

Gaurav enjoys working with students and works with them across academic and non-academic areas. He has been instrumental in setting up student and corporate engagement programs at the University of Texas at Dallas. He is one big believer in Servant Leadership which is the base of most of his initiatives. He leads the Young Entrepreneurs Program and serves on the board of the US-India Chamber of Commerce. He is also a member of the Academic Panel for Peoplecert. He works with Fortune 500 CXOs and advises them on their strategic initiatives, especially from the point of view of Technology.

FORUM MODERATOR



Gaurav Shekhar



Southern Taiwan High-tech Corridor



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駐休士頓辦事處科技組

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廣告

CIE Presents: Point/Counterpoint

“ARTIFICIAL INTELLIGENCE: Friend or Foe?”

CIE/USA-DFW is proud to introduce an innovative new debate program “Point/Counterpoint.” This program features a moderator and four skilled debaters engaging in two distinct one-on-one debates. The central theme of these debates is the ethics of Artificial Intelligence (AI), which we hope will spark thoughtful discussions on this critical topic within the field.



Panelist

Dr. Jason Ballengee

Director of innovation Labs
JustAnswer

Jason is a Trinity University and Vanderbilt University alum, earning his B.S. in Engineering Science and a Ph.D. in Chemical Engineering. His doctoral research and early career pioneered approaches to nano-structured materials - focusing on fuel cell membranes for his Ph.D. and later on engine oil additives at sp3 nanotech. Jason joined PepsiCo R&D in 2014, working in diverse areas including novel inline sensors, new coating technologies, R&D strategy, and ultimately leveraging AI to build big-data products that expedite and enhance CPG innovation outputs.

In his latest role at JustAnswer, Jason heads an innovation lab. His team leverages a variety of new technologies (e.g., machine learning, large-language models, etc.) to explore new business models and drive topline growth.



Panelist

Bo Gu

Director of Data Insights
AT & T

With over 10 years of experience in analytics, data science, machine learning, and AI, Bo Gu serves as a Director of Data Insights at AT&T. Bo's responsibilities encompass the "Create & Deploy AI" platform and products within the Chief Data Office, as well as driving use case delivery within AT&T's care business units, including pioneering applications of generative AI in call center transformation.

Bo also serves as the technology officer within AT&T's InspirASIAN ERG DFW chapter. Bo holds an MBA from Vanderbilt University and an MS in ECE from the Ohio State University.



Panelist

Shahmeer Mirza

Director of R&D
7-Eleven

Shahmeer Mirza is the Director of R&D at 7-Eleven, where he leads the innovation lab, 7Next. His work focuses on applied research to solve customer and store problems. Over the last several years, he and his team have launched several applied machine learning products, including a computer vision-enabled check-out-free store. His teams consist of machine learning engineers, full-stack engineers, hardware engineers, and systems engineers.

Prior to 7-Eleven, Shahmeer was a senior R&D engineer at PepsiCo, where he focused on applying machine learning to industrial process control. Shahmeer has over 80 granted patents across his time at 7-Eleven and PepsiCo. He holds a MS in Computer Science and a BS in Chemical and Biomolecular Engineering both from the Georgia Institute of Technology.

CIE Presents: Point/Counterpoint

“ARTIFICIAL INTELLIGENCE: Friend or Foe?”



Panelist

Josh Power

Senior Manager of
Advanced Analytics,
Automation, and AI
Oncor Electric Delivery

Josh serves as Capability Lead – Data, Advanced Analytics, Automation, and AI at Oncor Electric Delivery. His organization is responsible for enabling the development, delivery, and operations of next-generation technologies and platforms to support digital transformation at Oncor.

Josh has been with Oncor since 2016 serving in various leadership capacities in the Technology organization. He has served in his current role for the past 5 years. He has 20+ years of IT experience, including 13 years of experience as an energy-focused IT consultant prior to joining Oncor.

Josh has spent most of his life in the Oncor service territory. He has also lived in Los Angeles, London, and beautiful College Station, TX where he received his BBA in Business Analysis (MIS) from Texas A&M University.



Moderator

Will Jordan

Design Supervisor
Oncor Electric Delivery

Will is a dedicated and versatile professional, who seamlessly balances two crucial roles in service to his community and country. Will graduated from the Air Force Academy in 2005 and began a successful career as an Air Force Active-Duty officer. He then transitioned in 2010 to the Air Force Reserves, where he served as Director of Logistics and recently as the Chief Hospital Administrator at NAS-JRB Fort Worth, Carswell Air Force Base.

Will joined Oncor Electric Delivery Company in 2015 and has established himself as a leader within the Project Management Design Services team, based out of Fort Worth. He manages a team of 13 Designers that facilitate distribution voltage-level interconnections to Oncor’s electrical grid.

Will joined CIE in 2018 and has served as the MathComp/MathFun Parenting Seminar Moderator and in 2022 was the Annual Convention Chair. Will is passionate about developing the future leaders of our world. With his wife, Herlinda, he is focused on raising their two children to be joyful, resilient, and interdependent; they enjoy volunteering with their church and coaching a Dallas elementary school robotics team as well as a soccer team.

BANQUET KEYNOTE SPEAKER



Jose A. Alvarez
Global Head of Market Areas,
Intelligent Automation,
AI-Transformation,
Ericsson Inc.

Jose A. Alvarez, Global Head of Market Areas, Intelligent Automation, AI-Transformation, Ericsson Inc., was born in Mexico City and received his Engineering Degree in Digital Systems and Electronics. He moved to the US 28 years ago and earned an MBA from the University of Texas at Dallas.

As a global automation and AI/ML transformation leader, Jose is responsible for transformation and business development, strategy implementation, and global solutions-products-tool. He is a champion for transformation and engagement for all market areas, customers, P&L, Operations, etc. As a cross-functional leader for collaboration and partnerships with different units and stakeholders on all levels, Jose influences strategies, objectives, and targets to accomplish local and corporate goals. He has led multiple complex/enterprise-wide programs and demonstrated leadership in sourcing, supply, and implementation of local, regional, and nationwide programs.

Jose enjoys restoration of classic cars, do-it-yourself home projects, and small electronics maintenance/repair.

ABSTRACT

Artificial Intelligence – is it here to stay? Prove it!

It is difficult not to listen to or turn our heads around when we look at generative AI these days. Valuation of the economic impact is growing with the wave of attention given to the topic. The reality is that AI is here to stay!

Technology leaders, in one way or another, have been embracing the implementation of AI and generative AI into valuable options going forward. The AI train is leaving the station (or, in some instances, it has already left). Almost all areas of today's organizations are going to be touched by AI or generative AI - AI in general - if they have not been influenced already. From HR to sales, to delivery, to production, to sustainable development, etc.

We are going to look at some thoughts, implications, opinions, and possible effects of the snowball impact of AI and generative AI on our day-to-day lives and our jobs.

Do you ever wonder what your job will look like in 3-5 years with AI closing in?



SPECIAL RECOGNITION AWARD
presented to

Jose A. Alvarez

**Head of Market Areas, Intelligent
Automation and AI-Transformation
Ericsson Inc.**

**For Visionary Leadership in
Artificial Intelligence Innovation**



**CHINESE INSTITUTE OF ENGINEERS/USA
DALLAS-FORT WORTH CHAPTER**

September 30th, 2023

Xinfen Chen

**Dr. Xinfen Chen
Co-President**

Chris Koh

**Dr. Chris Koh
Chairman**

..... SHAPING

WORLD-CHANGING

..... ENGINEERS



“

I am working as a clinical research scientist. I'm witnessing how engineering is changing medicine and healthcare, and I'm proud to be a part of it.

”

David Wang. PhD '22

Electrical Engineer alumnus
Clinical Research Scientist
UT Southwestern Medical Center

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Special Recognition

WITH OUR
GREATEST

APPRECIATION



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WITH OUR
GREATEST

APPRECIATION



Since the CIE/USA-DFW Chapter was founded in 1989, its core value has been based not only on promoting community awareness in Science, Technology, Engineering, and Mathematics (STEM) but also on its contributions to society. To honor this core value of community involvement, the CIE/USA-DFW Chapter has created the CIE Outstanding Community Service Award (OCSA). Through this program, CIE recognizes teams and organizations that have made outstanding contributions to their community through their time, actions, and dedication.

OUTSTANDING COMMUNITY SERVICE AWARD

Oncor Electric Delivery Company

Texas Instruments Incorporated

Diodes Incorporated

Cathay Bank Foundation

Cindi's New York Delicatessen

INDIVIDUAL OUTSTANDING COMMUNITY SERVICE AWARD

Dr. Chris Koh

Gaurav Shekhar

Xin Wang

Dr. Tiger Zhou

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Civil Engineering Associate Professor Nick Fang works to develop water infrastructure solutions to cope with extreme weather events and natural disasters throughout Texas. He has enhanced a state-of-the-art flood warning system which has saved millions of dollars of damage to institutions and hospitals in Houston and the DFW Metroplex in the past 24 years.

UTA engineers make a difference in the classroom, the lab and the community, in North Texas and beyond.



College of Engineering



uta.edu/engineering

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2023 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.



YAA CHAIR
Nadum Charles

RECIPIENTS

Sanjana Arulkumaran



Plano East Senior High School

- 2023 College Board AP Scholar with Distinction
- 2022-2023 National Speech and Debate Association (NSDA) | 2x Nationals Qualifier, 2x Tournament of Champions Qualifier
- 2022-2023 Speech and Debate - Texas Forensic Association (TFA) State | 2x State Qualifier
- 2020 President's Education Award Recipient

Jenny Deng



Highland Park High School

- 2020-2022 Scholastic Art & Writing Awards | Silver Keys and Honorable Mentions
- 2022 Calvin J. Li Memorial Foundation National Essay Contest | 2nd Place
- 2023 Youth and Government State Conference | Second Committee
- 2020 Illinois Science Olympiad Invationals | Designer Genes 4th Place

Randy Guo



Plano West Senior High School

- 2022 USA Computing Olympiad (USACO) | Gold Division Qualifier
 - 2023 Hewlett Packard Enterprise (HPE) CodeWars | National Champion
 - 2023 Texas All-State Orchestra
 - 2023 State Computer Science UIL | 3rd place individual/4th place team
-



Kwame Hodge Jr.

Naaman Forest High School

- 2023 NAACP Award - Garland Unit
 - 2021- 2022 Distributive Education Clubs of America (DECA) | District Winner & National Contender
 - 2020 Genius Editor and 2nd "Best Annotator" Award
 - 2023 College Board AP Scholar with Honor Award
-



Alex Pan

St. Mark's School of Texas

- 2023 Texas Science and Engineering Fair (TXSEF) State | Finalist
 - 2023 USA Biology Olympiad (USABO) | Top 50 Students
 - President's Volunteer Service Award (PVSA) | Gold (2022, 2021) & Silver (2023)
 - 2022 - 2023 Columbia Scholastic Press Association (CSPA) | Gold Crown (2022 - 2023)
-



Christian Perry

Dubiski Career High School

- 2022-2023 SkillsUSA Robotics Urban Search and Rescue | 2nd Place District & State
 - 2023 Grand Prairie ISD Battle of the Books | 1st Place Team
 - 2023 CIE Youth English Speech Contest | 1st Place (9th and 10th grade division)
 - 2023 National Society of High School Scholars (NSHSS) Award
-



Andy Qin

Plano West Senior High School

- 2023 Regeneron International Science and Engineering Fair (ISEF) | Finalist
 - 2021 - 2022, National Speech and Debate Association (NSDA) | National Qualifier
 - 2021 - 2023 3x American Invitational Mathematics Examination (AIME) | Qualifier
 - 2022 - 2023 Texas Science and Engineering Fair (TXSEF) | Finalist
-



Aabha Shrestha

Central High School

- 2022 - 2023 National Technical Honor Society Award
 - 2021 Asian Passion Program (APP) | Nepal Chapter Country Director
 - 2022 - 2023 Youth Academic Programs Association (YAPA) | Program Lead
 - 2023 Health Occupation Students of America (HOSA) | Chapter President
-



Luke Ting

Highland Park High School

- 2022-2023 Texas Math and Science Coaches Association (TMSCA) State Competition | 1st Place Science
 - 2021 – 2023 American Invitational Mathematics Examination (AIME) | Qualifier
 - 2021-2023 USA Biology Olympiad (USABO) | Semifinalist
 - 2022 New York Times Summer Writing | Honorable Mention Award
-



Hannah Tsuei

Highland Park High School

- 2023-2024 Highland Park High School | National French Honor Society Induction
 - 2023 Highland Park High School | Latin III Honors Outstanding Student Award
 - 2018 - 2019 UIL Ready Writing | 1st Place Gold Medalist, 3rd Place Bronze Medalist
 - 2022-2023 Sewanee Young Writers' Conference
-



Caitlin Wee

Lebanon Trail High School

- 2022-2023 College Board AP Scholar with Honor Award
 - 2022 Texas State Solo-Ensemble Contest (TSSEC) UIL Solo Ensemble, Harp State, Rating 1+
 - 2021 Texas Music Educators Association (TMEA) | All-Region Orchestra, Harp, 2nd
 - 2021-2023 Dallas Youth Volunteer Organization | President Volunteer Service Award Gold Medal
-



Andrea Yan

Carroll Senior High School

- 2023 United States National Chemistry Olympiad (USNCO) | National Qualifier
- 2022 British Biology Olympiad | Bronze Award
- 2022 Carroll Medical Academy (CMA) | Sophomore Excellence Award
- 2023 AP Scholar with Distinction

The 2023 Young Achiever Award recipients will be recognized and celebrated at the 2023 CIE/USA-DFW Chapter Annual Convention and YAA Award Ceremony .

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廣告

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**2022-2023
CIE Events**

2022-2023 CIE/USA-DFW EVENTS OVERVIEW

Sep 24, 2022	2022 CIE Annual Convention Will Jordan
Oct 15, 2022	2022 CIE Picnic Dr. Chris Koh
Mar 12, 2023	Officer & Volunteer Orientation CIE co-Presidents (Dr. Xinfen Chen, Jen Hoch, Dr. Lun Tsuei, Grace Tyler & Dr. Tiger Zhou)
May 2023 – Apr 2024	Mentoring Circle Dr. Claire Jung
May 27 & Jun 10, 2023	DFW Youth English Speech Workshop and Contest* Rong Zhang
Jun 17, 2023	Chinese Speech Contest* Cecilla Hou and Yan Ma
Jul 2 – 8, 2023	DFW Chinese Youth Camp* Tingwhai Lee
Jul 15, 2023	Mentoring Workshop For Young Professionals Batuk Bista
Aug 11, 2023	DFWweCARE School Supply Drive* Co-hosted with 7 other organizations
Aug 19, 2023	CIE Youth STEM Convention – Theme: “RACE to the Future with AI” Uchenna Ndusorouwa (MathComp/MathFun) and Martin Zhang (SECC)
Sep 30, 2023	CIE/USA-DFW Annual Convention Bryan Taylor and Tina Zhang
Sep 30, 2023	Career Development Round Table Batuk Bista
Sep 30, 2023	Technical Executive Forum Dr. Chris Koh
Sep 30, 2023	CIE/USA-DFW Individual Outstanding Community Service Award Jenny Hoch
Sep 30, 2023	Young Achiever Award Nadum Charles

*CIE sponsored events

2022 ANNUAL CONVENTION



CHAIR
Will Jordan

The Annual Convention Banquet showed CIE/USA-DFW's appreciation of the sponsors, celebrated the 2022 accomplishments of the organization, and recognized the contributions of many of its volunteers.



The banquet was chaired by Will Jordan (L) and emceed by Hong Jiang (R)



Dr. Karthik Vasanth (VP and GM, Texas Instruments) delivered the Banquet Keynote Speech on "Semiconductor Technologies for a Sustainable Future"



Banquet attendees enjoying the evening's programs

Technical Executive Forum



CHAIR

Dr. Lun Tsuei

The 2022 CIE-DFW Technical Executive Forum invited 4 panelists with diverse backgrounds from different industries, including Dr. Wenhua Di (Sr. Economist & Executive Director of Research Data Center, Federal Reserve Bank of Dallas), David Lu (Vice President, Network Systems, AT&T Technology Services, AT&T), Dr. Duojsia Pan (Professor & Chair of Department of Physiology, University of Texas Southwestern Medical Center, Investigator of Howard Hughes Medical Institute), and Dr. Karthik Vasanth (Vice President and General Manager, DCC Business Unit, Texas Instruments, Inc.). It is worth mentioning that David Lu and Dr. Karthik Vasanth received AAEOY awards in 2017 and 2022, respectively.



L to R: Forum Moderator, Dr. Mary Cooley; and Panelists, Dr. Karthik Vasanth (TI), David Lu (AT&T), Dr. Wenhua Di (Federal Reserve Bank), and Dr. Duojsia Pan (UT Southwestern)

Amanda Pederson (Vice President, PepsiCo R&D) hosted the event, while Dr. Mary Cooley (Chair, Dallas Chapter of SCORE) moderated this group of outstanding panelists before an audience of more than 50 people. The panelists shared their insights on technologies that enable many aspects of sustainability. A lively discussion with the audience took place at the end of the Forum.



Audience listening intently to the Panelists

Technical Symposium



Chair

Professor J.-C. Chiao

On September 24, 2022, the CIE/USA-DFW Annual Convention Technology Symposium took place in the Renaissance Dallas Richardson Hotel. The Symposium, with the theme of “Technology Fusion: Breakthrough Technologies for a Sustainable Future,” featured 17 highly distinguished speakers and panelists covering a very broad area of the topic, from the engineering of power systems, water management, and healthcare systems to the uses of novel biomedical techniques for pharmaceutical advances, and biodegradable plastics.



Dr. J.-C. Chiao (SMU), Symposium Chair welcomes the attendees



Dr. Robert Hendler, M.D. addresses the audience

The Symposium, chaired by Templeton Professor J.-C. Chiao of Southern Methodist University, serves as a platform for technological innovation and exchange, and to pave our path towards the next wave of global engineering advancement. This symposium invited industrial, academic, and government experts from the US to not only exchange ideas but also seek partnerships on how to leverage emerging technologies. This is a great opportunity to review technological milestones and strategize future collaboration across the US and Taiwan for the next 5 to 10 years that will address the challenges ahead of us. This year, two keynote speakers discussed the impacts of biodegradable materials on sustainable food packaging and sustainable risk management for healthcare systems. After the general session, three parallel tracks with 11 speakers present the focused topics in Resource Sustainability, Infrastructure Sustainability, and Leadership and Career Development.



Annual Convention Symposium speakers and organizers, with Symposium Sponsor Representative, Yiyu Chao of the Taipei Economic & Cultural Office in Houston.

2022 LEADERSHIP AND CAREER DEVELOPMENT SEMINAR



CHAIR
Matt Tovar

The Leadership and Career Development Seminar is a very popular component of the CIE/USA-DFW Annual Convention. The 2022 seminar was chaired by Matt Tovar (Oncor) and featured three distinguished industry and academic leaders with diverse experience. The seminar carried the theme of Sustainable Leadership in a Fast- and Ever-Changing World.



Mark Carpenter (Oncor)
"a Few of Life's Lessons Learned Along the Way (What I Wish I Had Known Earlier)"



Gaurav Shekar (UT Dallas)
"Sustainability through the Lens Data and Analytics"



Sheana Chen (Diodes)
"Looking at Leadership through the Sustainability Perspective"



Matt Tovar (Oncor)
Seminar chair



Panel Discussion and Q&A with audience

VIP Reception



CHAIR
Dr. Huawen Jin

The VIP Reception helped to kick off the networking and celebratory portion of the Annual Convention. As this was the first in-person Convention after a two-year hiatus due to the COVID pandemic, participants were eager to reconnect or make new acquaintances.



The highlight of the reception was the Individual Outstanding Community Service Award (IOCSA) to honor individuals who have made outstanding contributions to their community through their time, actions, and dedication. The ceremony was presided by the Honorable Paul Voelker, Mayor of Richardson, TX. Five individuals received the award for their outstanding volunteerism.



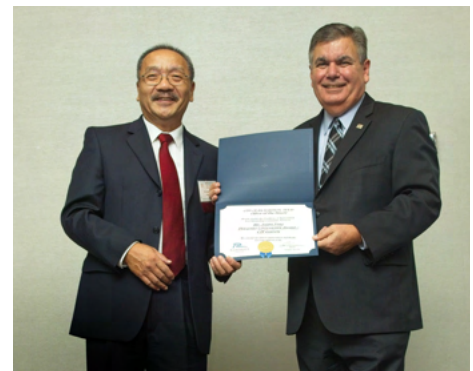
Garry Koh, for his outstanding contribution to the Guide Dogs for the Blind (L)
Jackson Ku, for his outstanding contribution to the InspirASIAN organization (R)



Dr. Yu Meng, for his outstanding contribution to STEM education



Bing Xie, for his outstanding the NiHao Food Bank Initiative



Sammy Yang, for his outstanding contribution to CIE and multiple municipalities in the DFW area

2022 ANNUAL PICNIC



CHAIR
Dr. Chris Koh

On Oct 15, 2022, CIE held a picnic at Plano's Bob Woodruff Park to show appreciation for our volunteers and their families. With perfect weather, everyone enjoyed each other's company. All participated in the icebreaker BINGO games, and thanks to Will Jordan, the children especially enjoyed his balloon animals.



One of the picnic highlights was the first-ever CIE Iron Chef Competition. CIE members love food and cooking, many brought special dishes to share in the potluck and entered them into the competition. The winning chef was Dr. Lun Tsuei with his mildly spicy beef dish.

2023 OFFICER AND VOLUNTEER ORIENTATION

CHAIRS

CIE co-Presidents (Dr. Xinfen Chen, Jen Hoch, Dr. Lun Tsuei, Grace Tyler and Dr. Tiger Zhou)

On March 12, CIE held the 2023 Officer & Volunteer Orientation at Davis Library, Plano. The meeting had a great turn-out with almost 30 participants. It was "fun and interactive". As many are new to CIE, we had ice-breakers to help everyone get to know each other a little better.

As part of the onboarding, CIE Co-president, Dr. Tiger Zhou shared how CIE is now leveraging Google Workspace for Nonprofit organizations.

We entertained a mock Shark Tank competition asking each team to come up with a proposal for a brand-new CIE program targeted towards young professionals. The goal is to stimulate innovative ideas and re-engineer CIE events. The project idea also aligns with the CIE's efforts to engage young professionals with the community. Everyone put on their thinking and creative caps, and many wonderful ideas were presented.

The Young Professional team will take these ideas and figure out how we can leverage them in future CIE programs.

This orientation itself demonstrated the team effort on re-engineering the CIE event. "The event was an energetic, dynamic and think-different experience. I liked it very much. " said Glen Fan, a CIE volunteer. "I too enjoyed participating." said Autry Warren, CIE board of directors.



YOUTH ENGLISH SPEECH WORKSHOPS AND CONTEST



CHAIR

Rong Zhang

The 2023 DFW Youth English Speech Contest took place at the University of Texas at Dallas on Saturday, June 10th, gathering around 300 students and parents to celebrate the art of public speaking and empower young minds. Hosted by the Chinese Institute of Engineers/USA-DFW Chapter and organized by the Texas Dragon Toastmasters Club, the event aimed to foster confidence and ignite passion for public speaking among youth.

The contest featured 125 participants from grades 1 to 12, divided into 10 groups based on their grade levels. The students eloquently spoke on diverse topics, showcasing their communication skills with vocal variety, body language, and eye contact. The event was made possible by esteemed sponsors like Onco, Texas Instruments, Diodes, AT&T, PepsiCo, Cathay Bank, Cindi's New York Deli, and the University of Texas at Dallas.

Guided by Distinguished Toastmaster Ms. Jen Hoch as the chief judge, the event maintained a fair evaluation process with 22 trained judges. Over 100 dedicated volunteers supported the smooth execution of the event.

During the awards ceremony, the winners and their proud parents celebrated their achievements. The contest provided a valuable platform for young individuals to develop speech skills, stimulate interest in public speaking, and nurture confidence and leadership abilities.

An earlier public speaking workshop, attended by over 80 students and parents, emphasized techniques for clear and logical speech delivery, capturing the audience's attention, and conveying information effectively.

The event concluded on a high note, leaving a lasting impact on participants, and inspiring their growth in public speaking and beyond. The organizing committee and sponsors eagerly anticipate the bright futures of these young speakers.



Judges and volunteers

YOUTH ENGLISH SPEECH WORKSHOPS AND CONTEST

Winners of the contest were recognized in various grade-based groups:

Grade Group	1st Place	2nd Place	3rd Place	Honorable Mention
1st Grade	Ivy Liu	Madeleine Cheng	Chloe Bodam	Eric Shao, Aiden Guo, Duncan Wang, Abhiram Kalidindi
2nd Grade	Brandon Gu	Edison Bodam	Grace Thomas	Yicheng (Eason) Lin, Ilan Anandan, William Guo
3rd-4th Grp1	Angela Guo	Ananya Sheshadri	Emerson Perry	Katherine Ho, Karina Jiang, Edison Olougouna, Vatsal Ganesh, Ruiqi Sun
3rd-4th Grp2	Hannah Wu	Evelyn Harada	Wilson Zhou	Krishna Thakkar, Alexander Wang, Angelina Pan, Daniel Hu
5th Grade	Kaavya Nambiyath	Chloe Li	Lillian Ye	Kushagra Wagle, Carson Liu, Rishabh Kasera
6th Grade	Varshini Arulkumaran	Sonia Ghazi	Kaylee Zhao	Ethan Pi, Alex Shi
7th Grade	Kathleen Jiang	Anna Olougouna	Brandi Wu	Jonathan Shen, Carys Wee
8th Grade	Vachi Kasera	Aarya Shrestha	Yien (yoyo) Lin	-
9th-10th Grp	Christian Perry	Oliver Chen	Jimmy Zhang	James Hu, Aakash A
11th-12th Grp	Aabha Shrestha	Allison Pan	-	-



Winners and award presenters

2023 DFW CHINESE SPEECH CONTEST



co-CHAIR

Ms. Cecilia Hou



co-CHAIR

Ms. Yan Ma

The 11th TI Cup North Texas Chinese Speech Contest was sponsored by the CIE/USA-DFW chapter and organized by the North Texas Chinese Culture Promotion Association (NTCCPA). It was held at the University of Texas at Dallas on Saturday, June 17th.

This year's speech contest received strong support from many public and private schools in the North Texas area. The contest attracted 94 students including both K-12 grades and adults, in which over 20% of the contestants originated from non-heritage families. The contest was judged using Toastmaster International rules administered by Dr. Jiang Li, chief judge. Dr. Li organized the rules and provided training to the judges to ensure a fair and balanced competition. Prior to the contest, Free speech skill training on "How to Write a Speech" and "Speech Delivery" were organized by Cecilia Hou and taught by Jimilee Rempe. Ten committee members, along with more than 70 volunteers, supported this event.

Group / Grade	1st Place	2nd Place	3rd Place
A1 Heritage Pre-K	Lucas Lim	Bryan Li	Mia Zheng
A2 Heritage K	Krystal Xia	Scarlett Tanglaurance	Jiashi Guo
A3 Heritage G1	Ivy Liu	Aiden Guo	Eric Shao
A4 Heritage G1	Ruby Ma	Emily Hu	Lucas zhang
A5 Heritage G2	Jerry Cao	Yovela Zhang	Miya Wang
A6 Heritage G2	Jiayuan Guo	Zoey Wang	Corey Zhang
B1 Heritage G3	Claire Hou	Angela Guo	Qilu Jin
B2 Heritage G3	Rachael Sun	Connor Huang	Henry Zhang
B3 Heritage G4	Hannah Wu	Yichen Liu	Daniel Hu
C1 Heritage G6-8	Ellen Zhang	Jason Chen	Harry Chen
D1 Heritage G9-G11	Adam Luo	Allison Pan	
E1 Nonheritage K-G2	Cara Coker		
E2 Nonheritage G4-5	Jowel Mann	Zoe Prothro	Winter Cook
E3 Nonheritage G6-8	Julian Gatje	Keeli Richardson	Tyler Prothro
F1 Nonheritage G9-Adult	Hazem Saleh	Zackary Goforth	Chad Pursley

Award Presenter, Committee and part of the Awardees



2023 CHINESE SPEECH CONTEST



Award Presenter Dr. Tiger Zhou,
Co-President of CIE/USA-DFW Chapter



Award Presenter Grace Tyler,
Co-President of CIE/USA-DFW Chapter



Winners at Award Ceremony



Event Day



Part of Committee Members

YOUNG PROFESSIONALS PROGRAM



CHAIR
Batuk Bista

On July 15th, 2023, CIE/USA-DFW Chapter successfully organized a Mentoring Workshop for young professionals in DFW. This was one of a kind event through CIE and experimented for the first time where participants had a chance to interact with mentors related to the topics:

- Career Change/Advancement
- On-The-Job Networking
- Work-Life Balance



We had 4 mentors from different companies.

- Tiffany Chen, AT&T/Lead Product Manager
- Dr. Claire Jung, Texas Instruments/Engineering Manager
- Monica Knight, Oncor/Senior Manager - Employee Relations
- Sheana Chen, Diodes Inc./General Counsel



The best part of the program was participants had a chance to visit each table and interact with the mentors. The feedback received after the program was quite satisfying and encouraging for the future such events. A total of 35 participants from different companies and universities participated in the program.



DFWweCARE Back-to-School Drive



On August 4, 2023, at Central Elementary School in Lewisville, Texas, the atmosphere was vibrant and filled with laughter and joy!

CIE/USA-DFW Chapter joined seven other non-profit organizations in the Greater Dallas-Fort Worth area (DFW Chinese Alliance, General Association of Henan Dallas USA, Global Federation of Chinese Business Women – North Texas Chapter, A-CAST, Igniter, YES, and Public Contribution Group) jointly organized the DFWweCARE Back to School Drive. In the afternoon, hundreds of volunteers gathered in the school cafeteria, where they filled backpacks following the school supply list for each grade. Volunteers efficiently sorted and packed the items into six groups according to grade.

At 5 PM, the Back-to-School Drive officially kicked off as crowds of students, parents, families, and local community members entered the school with great excitement, greeted by their teachers first and then with a mesmerizing lion dance and high-energy drum performance, igniting the energy of the crowd. The event received high recognition from local legislators and school district representatives. Lewisville Mayor TJ Gilmore, Texas State Reps - Rep. Benjamin Bumgarner, Kronda Thimesch, Denton County Commissioner Bobbie J. Mitchell, Trish Robinson – Chief of Staff to Texas State Senator Tan Parker, Lewisville ISD Jenny Proznik took the stage to express their gratitude to the Dallas Chinese community for caring and supporting local children. Shaunna Buck, the principal of Central Elementary School, expressed her overwhelming gratitude for the event, stating, "I am amazed by the outreach and support we have received. I had no idea there were so many people willing to be a part of helping our community, supporting our kids, and fostering cultural engagement. It's absolutely beautiful, and I'm incredibly proud and grateful."



During the backpack distribution, guided by their parents, the children received backpacks filled with love from the organizations at their respective grade tables. About 300 backpacks containing school

supplies were given to students in need. According to feedback from school teachers, these backpacks held profound meaning for the students, ensuring that each child had the necessary supplies for learning and doing homework, enabling them to excel in their studies.

In a scorching hot summer in Dallas, the DFWweCARE philanthropic brand united the Dallas Asian community to actively give back to society while raising awareness in local communities.



2023 Youth STEM Convention

MathComp/MathFun & Parenting Seminar



CHAIR

Uchenna Ndusorouwa

CIE/USA-DFW successfully held the 34th annual MathComp/MathFun on Saturday, August 19th, 2023, at the University of Texas at Dallas. It is the flagship youth program of CIE/USA-DFW, featuring a math competition for students from first through eighth grade, a parenting seminar, and a math fun fair. The goal of this event is to inspire and stimulate young students' interest in Science, Technology, Engineering, and Mathematics (STEM).

More than 200 contestants registered and showcased their math problem-solving skills in MathComp (math competition) sessions. The top scorers and honorable mentions from each grade were celebrated, fostering a sense of accomplishment and motivation.

While the contestants were taking their tests, over 200 parents and guests attended a separate parenting seminar and panel discussions. The theme of the parenting seminar was "Keeping Young Students Engaged in STEM." Matt Tovar served as the Chair, Master of Ceremony, and moderator for this session, with five guest speakers including Gaurav Shekhar (UTD), and students Carolina Jaime Chinchilla, Michelle Xing, Gabriel Bo, and Max Fan.



Speakers for Parenting Seminar from left to right: Michelle Xing, Matt Tovar, Carolina Jaime Chinchilla, Gabriel Bo, Max Fan, and Gaurav Shekhar

After the MathComp, the students rushed out of the classrooms and enthusiastically participated in MathFun, an interactive program designed for students to broaden their critical thinking skills and to learn to apply mathematics to real-life challenges. MathFun included chess, electric circuits, Rubik's Cube puzzles, Lego robotics kits, and robotics demonstrations.

Jan Benmard was the Master of Ceremony for the awards ceremony. CIE/USA-DFW presented the first, second, and third place trophies to 24 winners in Grades one through eight, who were top scorers of their grade for the MathComp. In addition, 32 students received honorable mention medals. Congratulations to the award winners! The MathComp winner list can be found at the CIE/USA-DFW event site and on the next page.

2023 Youth STEM Convention MathComp/MathFun & Parenting Seminar



Winners of Math Competition and SECC Competition

Grade	1st Place	2nd Place	3rd Place	Honorable Mention
1	Cj Liu	Ethan Lu	Stephen Yang	Aiden Guo, Eric Li, Max Gadiwan, Pepper Li
2	Corey Zhang	Seldon Ye	Matthew Li	Amelia Chou, Yuhan Wang, Marcus Mai, Kelley Cai, Jiayuan Guo, Hannah Quigley
3	Ethan Li	Samuel Wang	Anthony Hu	Brian Kim, Angela Guo, Han Shao, Oliver Qin, Aaron Tu, Vivek Dash
4	Tommy Li	Ally Jin	Ayden Jin	Michael Mao, Allen An, Isabella Song, Mingyuan Fu, Eric Dong, Kai Sheng
5	Shaheem Samsudeen	Avahan Gautam	Roger Wang	Benjamin Dong, Avni Gautam, Nathan Lee, Olivia Zhang, William Zhao
6	Nathan Liu	Emma Zhu	Saanvi S Potluri	Joshua Shu, Madeline Xing
7	Devin Li	Jay Yi	Vivinsha Veduru	Michelle Cheng, Jacob Jintian Yang
8	Bryan Fu	Andy Lee	Shourya Vyas	Owen Xie

The 2023 MathComp/MathFun was chaired by Uchenna Ndusorouwa.

The 2023 CIE Youth STEM Convention committee and CIE/USA-DFW would like to express our sincere appreciation to all the volunteers and corporate sponsors - Oncor, Texas Instruments, Diodes Incorporated, AT&T, PepsiCo, Cathay Bank Foundation, Cindi's New York Delicatessen, ConsulPath Inc., and American Airlines - for their contributions to make this event a great success!



CIE Youth STEM Convention volunteers

2023 Youth STEM Convention

STUDENT ENGINEERING CREATIVITY CONVENTION(SECC)



CHAIR

Martin Zhang

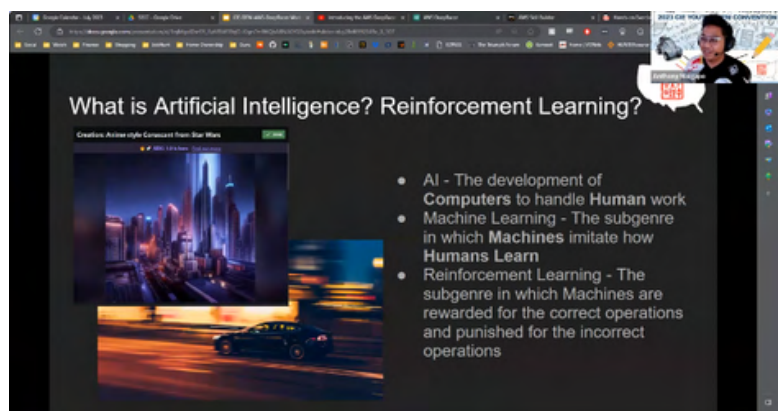
CIE/USA-DFW successfully held the 6th annual SECC on Saturday, August 19th, 2023. Because AI technologies are a hot topic in people's lives this year, the decision was made to focus on AI using one popular reinforcement learning platform, namely AWS DeepRacer from Amazon Web Service. Hosting this event in hybrid expanded CIE/USA DFW's impact on students outside the Dallas-Fort Worth Metroplex, including participants from the East Coast, California, and China. The SECC is a flagship youth program of CIE/USA-DFW, featuring engineering competitions for students in grades 1-12, including two workshops, two virtual competitions, and one final engineering product presentation. The goal of the program was to help students develop their interest in Science, Technology, Engineering, and Math (STEM) with hands-on experience as well as being creative when facing challenges.

In the 2023 SECC program, we introduced AWS DeepRacer to get students interested in AI. DeepRacer turns AI development into a fun and competitive game. Students can design and train their own AI models to race autonomous cars on a virtual track. This approach can motivate students to explore AI concepts in a more enjoyable way. Meanwhile, we orchestrated two rounds of virtual showdowns featuring an array of tracks: Division A targets grades 6 to 8, while Division B hones in on the prowess of high school students spanning grades 9 to 12.

The 1st workshop invited speakers from the information technology industry to unveil the fundamental tenets and real-world influence of Artificial Intelligence and reinforcement learning in our everyday existence, in addition to the introduction of the AWS DeepRacer development environment. This workshop attracted more than 80 participants. The 2nd workshop gave a live demonstration and detailed explanation of the hyperparameters for fine-tuning DeepRacer AI models. This year's SECC had 6 team contestants and 4 individual contestants from Division A, and 4 team contestants and 2 individual contestants from Division B. Each contestant submitted the AI models to the virtual track on the virtual competition day and received related scores based on the model performance on the track. Each team then had interviews with judges in the interview rooms for 10 minutes on the event day before a final composite score was given to each team. The award ceremony reached its climax when the award winners were announced. CIE/USA-DFW presented 6 trophies to Division A winners and 4 trophies to the Division B winners.



CIE co-president Dr. Tiger Zhou hosted the final AWS DeepRacer product presentation on event day



Anthony Malgapo of Verizon Communication introduced the basic concepts of AI and Reinforcement learning to the participants

2023 Youth STEM Convention

STUDENT ENGINEERING CREATIVITY CONVENTION(SECC)



CIE co-president Dr. Tiger Zhou, and Elaine Lou presented trophies to Division A Individual winners

Division A

- **Individual Category**
 - **1st Place:** Melody Jing
 - **2nd Place:** Angela Zhou
 - **3rd Place:** Amber Zhou
- **Team Category**
 - **1st Place Team E:** Eugene Wang, Eric Huang, Brian Zhou, Jonathan Shan
 - **2nd Place Team D:** Zhihan Jiang, CodyLi, Eric Liu
 - **3rd Place Team B:** XinShuo Zhou Newton(Xiong)Yang Roger Tang Alex Miller

Division B

- **Individual Category**
 - 1st Place: Evan Yang
- **Team Category**
 - **1st Place Team C:**
 - Calab Su, Kevin Lu, Jaida Gao, Etai Miller
 - **2nd Place B:**
 - Bruce Wu, Felicia Guo, Jasmine Zhao, Jonathan Li
 - **3rd Place Team D:**
 - William Chen, Hongjin Cao, Jophy Lin, Lucas Su

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2023 CIE Committee

ABOUT CIE/USA

Mission - The 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 - The 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 provides 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.

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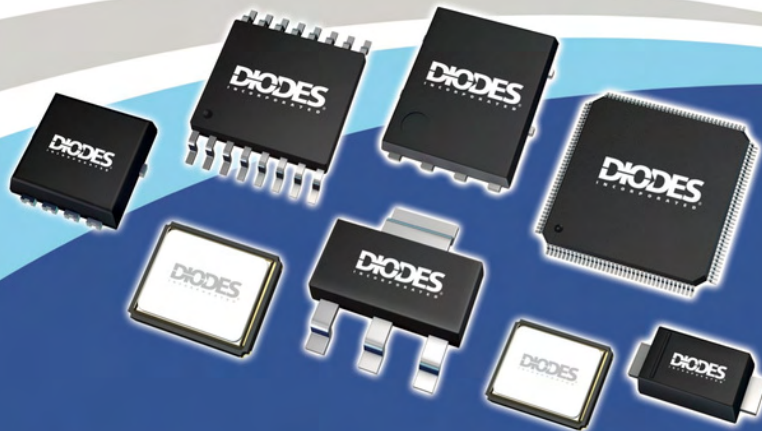
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