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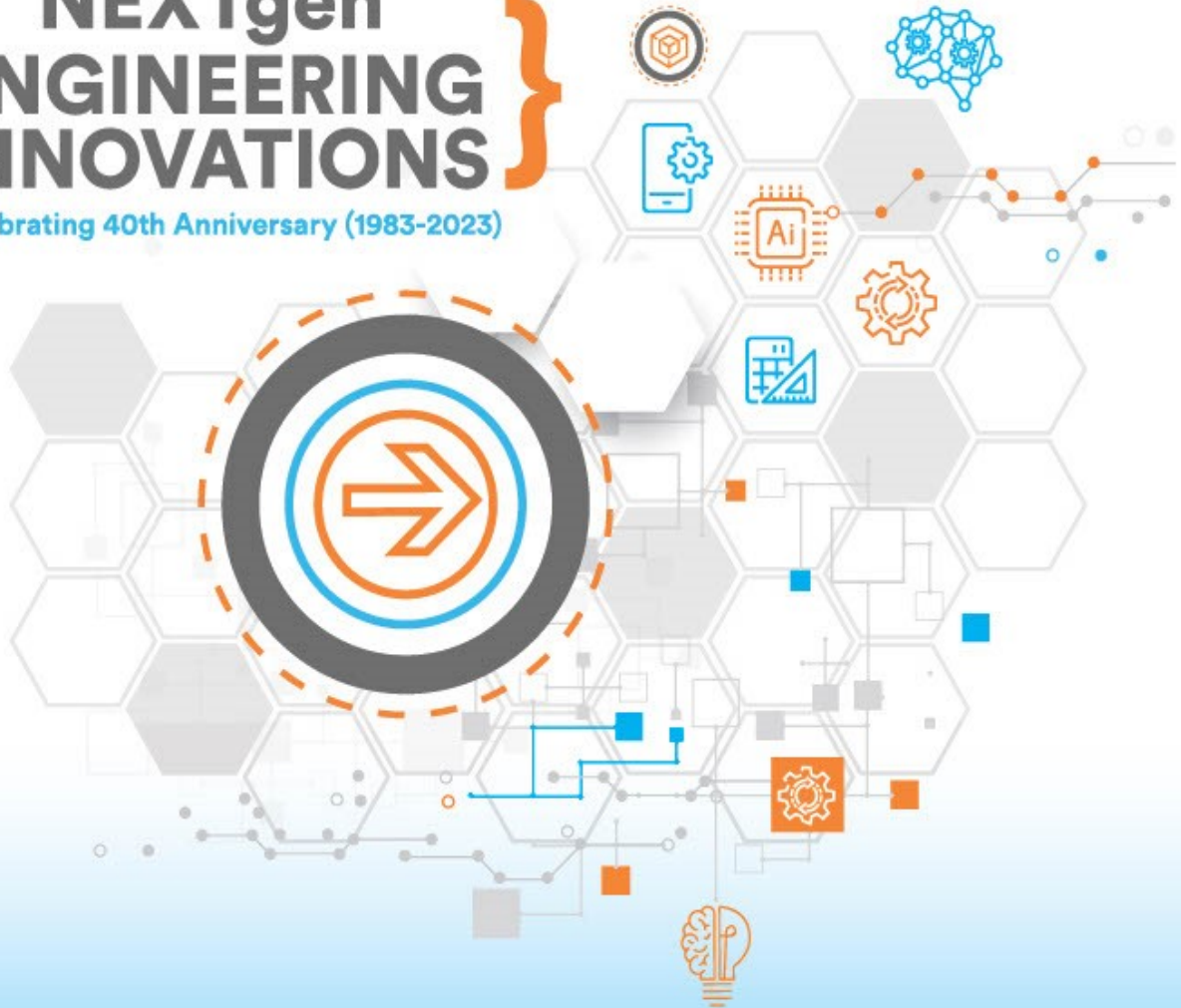
American Society of Engineers of Indian Origin



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- **ISO 45000: Occupational Health and Safety System (OHSS)**
- **ISO 13485: Medical Device Manufacturing System (MDMS)**

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# ASEICon 2023 National President Message

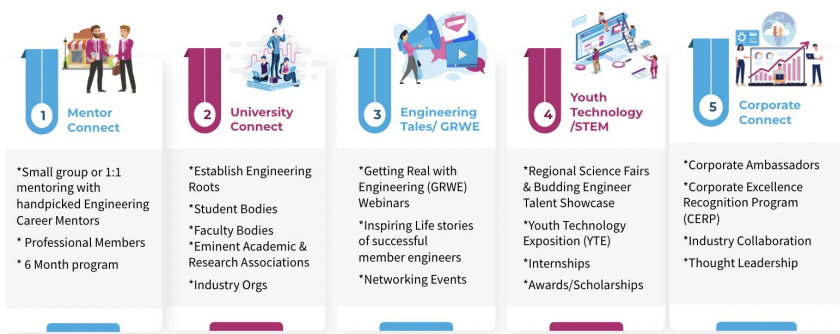


I am honored to welcome all our guests, distinguished speakers, and fellow engineers, technologists and scientists to ASEICon2023 which is the 35th National Convention in our organization's 40 year history. Indeed it's a momentous occasion not only for us but for many of you who have come to attend our National Conventions year after year.

I too am getting nostalgic thinking about how I had my first brush with ASEI over 11 years ago. I had been invited to speak at the National Convention in SoCal and then one request led to another and we ended up establishing an ASEI chapter in Silicon Valley with a bit of initial corporate support and volunteers from IBM. Since then, I have seen this organization flourish with more activities and focused initiatives and chapters launched. Thanks to the founding fathers of this esteemed organization that laid a solid foundation in 1983!

With our world in turmoil with raging regional conflicts & impact of climate change accentuated, it is engineering innovations that provide us some solace which fits with ASEICon2023's theme "Next Generation of Engineering Innovations" Innovation is a powerful engine for uplifting society and fueling economic growth. Antibiotics, electric lights, refrigerators, airplanes, smartphones—we have these things because innovators created something that didn't exist before. Our guest speakers at this conference exemplify that and I'm grateful for their contributions.

Looking back over the past 40 years, ASEI has come a long way from being a regional organization to the National level with multiple professional chapters and student chapters. I take pride in mentioning some of its achievements in various programs elsewhere in this brochure, however including a visual for the 5 key pillars that have guided our strategy:



I am very thankful to the Convention Co-Chairs Rakesh Patel and Muthu Sivananthan who along with many volunteers have put together an exciting and enriching program focused on latest engineering developments. I am sure you will enjoy the convention. Thank you for your attendance and feedback. I wish to acknowledge all the sponsors, speakers as well as volunteers for their hard work and support.

Piyush Malik

President ASEI National & President ASEI Silicon Valley





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American Society of Engineers of Indian Origin



## ASEICon 2023 Chair Persons Message



**Muthu Sivanantham**



**Rakesh Patel**

We take immense pleasure in welcoming you to the ASEICon 2023. This is ASEI's first in-person national convention in the last 5 years and the Michigan Chapter is delighted to host and celebrate the event with all of you in Metro Detroit. ASEI turned 40 this year! We salute our founders' pioneering vision in realizing the importance of having such a platform for networking, career advancement, community service and technology exchanges. We are glad to be upholding their dream.

As they say, it takes a village; and it indeed took a village for us to get here from where we had started. First, the pandemic threw the world into a tailspin, taking us all indoors. Later, we had to deal with the impact it left behind. While we pondered on the economics of putting together a big milestone convention, we were grateful our wonderful sponsors provided us with the support and motivation for us to move forward. Having supported ASEI in the past, they affirmed their commitment with continued support. We sincerely thank them for standing by us.

Special thanks to our Michigan chapter team, our National chapter and our Sister chapter teams, volunteers and their families in doing their part and going that extra mile in making this convention's planning and preparations top notch. I would be remiss if I did not thank my family for their constant support for the past few years and backing me up on my ASEI service.

For any technical convention, content is king. We are proud of our Indian leaders' hard work, expertise, and their continued successes. It is also heartening to learn that the same leaders are always willing to give back, motivate and prepare the next generation of scientists and engineers. Many industry leaders are joining us at the convention to give us their inspiring speeches through keynotes, lightning discussions and engaging panels to share their wisdom and insights. We also have to thank our ASEI content warriors' tireless efforts in bringing in and working with our renowned speakers for the past few months in order to craft our convention content.

Our sessions and panels at this convention focus on how our industries will look like in 10, 20 and 25 years from now. What obstacles and hurdles lay ahead, inhibiting our goals? How do we build a sustainable world, striving to leave the planet better? What looms on the horizon with this existential climate crisis that is threatening us through extreme heat waves, catastrophic floods and melting ice sheets? We have strong trust in pure human ingenuity, aided by technologies and innovations that will help us solve even seemingly unsolvable problems we encounter.

Have a great time at the ASEICon 2023!



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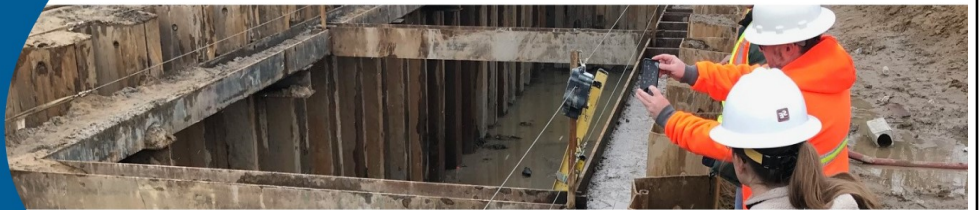
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# ASEI Michigan Chapter Message

## Welcome to our milestone convention



**Muthu Sivanantham**

It was indeed a great honor for the ASEI Michigan Chapter to host the 35<sup>th</sup> National Convention on this milestone year when the organization is celebrating 40 years since its inception. It is an extra special occasion because it was in Michigan that the founding seeds were sown back in 1983 by Late Mr. Hari Bindal along with a group of 26 founding members, who had this brainwave to start an organization for Engineers of Indian Origin. The purpose of the organization was to give networking opportunities for professionals, students and businesses as well as provide a forum to learn about the latest technologies and provide guidance and encouragement for budding technologists.

The vision of the founding members has been carried forward most successfully and we really need to applaud the efforts over all these years that have helped spread the map of ASEI all over the USA with multiple chapters headed by the ASEI National team.

In line with the vision of the founding members, the 35<sup>th</sup> National Convention has been designed to have multiple tracks to cover New Mobility, Energy, Infrastructure, Engineering Innovations, along with Youth Technology Exposition. In addition, there is an evening banquet where special awards will be given to recognize the exceptional efforts and skills along with a gala dinner and entertainment. We are really excited about the event and can see a high level of interest in the community to be a part of it.

## Manufacturing, Mobility and Energy renaissance is upon us

We are in the midst of one of the greatest transformations of all ages as all of the industries known to mankind are attempting to reinvent themselves. Many of these industries and their boundaries are blurring and Michigan is actively taking part in this movement. As a build up to this milestone convention, the ASEI Michigan chapter is proud to have hosted several summits, sustainability seminars and technical sessions. Some of those highlights include the new Mobility & Infrastructure Summits, an Energy Transition workshop and our annual tradition of Women's History Month celebrations. We were extremely proud to connect back with the ASEI founders through a recognition event earlier this year.



**Lalita Kambhampati**

## Relax, Network and Enjoy the Sessions

We welcome you wholeheartedly to this event and hope that you will really enjoy the interesting lineup of trending topics that have been meticulously laid out by the team. From Innovations & Digital Evolutions, to Energy Transition, to Building Economies of the future, and Reskilling requirements, several topics would interest you. Relax and take them all in. Also we take this opportunity to thank all the board members, volunteers, sponsors and all those who have strived tirelessly to make this convention not just successful but also an extra special one.





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on its **40th Anniversary** and the  
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# ASEI AWARDS 2023

## ASEI Lifetime Achievement



**Thomas Kurian**  
CEO, Google Cloud

<https://www.linkedin.com/in/thomas-kurian-469b6219/>

Thomas joined Google in November 2018 as the CEO of Google Cloud. Prior to Google, Thomas spent 22 years at Oracle, where most recently he was President of Product Development. Before that, Thomas worked at McKinsey as a business analyst and engagement manager. His nearly 30 years of experience have given him a deep knowledge of engineering, enterprise relationships, and leadership of large organizations.

Thomas' degrees include, an MBA in Administration and Management from Stanford University as an Arjay Miller Scholar and a BSEE in Electrical Engineering and Computer Science from Princeton University where he graduated Summa Cum Laude. Thomas serves as a member of the Stanford Graduate School of Business Advisory Council and Princeton University School of Engineering Advisory Council.

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## ASEI Engineer of the Year – AI



**Rama Akkiraju**  
Vice President, NVIDIA

<https://www.linkedin.com/in/ramaakkiraju/>

Rama Akkiraju, VP of AI & Automation at NVIDIA IT, previously held leadership roles at IBM for two decades.

While at IBM, she served as IBM Fellow, Master Inventor, and in her last role, she was the CTO of IBM Watson AI Operations product, a product for optimizing IT operations management with AI.

Previously, at IBM AI's division, Rama led AI services like Personality Insights, Emotion and Tone Analyzer. Her contributions spanned projects in AI, Machine Learning (ML), natural language processing (NLP), Speech Recognition, human-computer interaction (HCI), chatbots, decision support systems, business process management, and semantic Web services.

She co-authored 100+ technical papers, holds 50+ patents, and received 4 best paper awards.

Rama was recognized by Forbes' as 'Top 20 Women in AI Research' in 2017. 'USA Industry Innovator of the Year' and 'AI Industry Leader of the Year' are only a few among the many industry awards received by Rama over the years. Rama holds a Master's in computer science and a gold medal MBA from New York University. Rama was a featured speaker at ASEI's 33rd National Convention in 2020



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# ASEI AWARDS 2023

## ASEI Entrepreneur of the Year



**Dheeraj Pandey**  
CEO, DevRev &  
Board member Adobe

<https://www.linkedin.com/>

Dheeraj is a serial entrepreneur, Founder & CEO at DevRev and a board member at Adobe.

Prior to this, he founded and led Nutanix as CEO & Chairman for 10 years. Previously, Dheeraj was the VP of Engineering at Aster Data (now Teradata), where he helped build the product and its engineering team from the ground up. At Oracle, he managed the storage engine group for Oracle Database/Exadata, and co-authored numerous patents in the area of distributed databases.

Dheeraj's entrepreneurial spirit has been recognized with a number of prestigious awards including Dell's Founders 50 and the E&Y Entrepreneur of the Year. He holds a BS in CS from the Indian Institute of Technology (IIT, Kanpur), where he was adjudged the "Best All-Rounder Student Among All Graduating Students in All Disciplines" and bestowed with the Distinguished Alumnus Award.

## ASEI Scientist of the Year



**Dr Nina Tandon**  
CEO, EpiBone

<https://www.linkedin.com/in/nina-tdon-phd-mba-03595315/>

Nina Tandon is the co-founder and CEO of EpiBone, a biotech company that grows bone and cartilage for skeletal reconstruction. With decades of experience as a scientist and entrepreneur, Nina is known for her TED Talks, has published in Forbes magazine, and was featured on the Netflix series "Human: The World Within."

Recognized for her accomplishments as a female scientist and entrepreneur, Nina was named one of the 100 Most Creative People in Business by Fast Company Magazine; an Ernst & Young Winning Woman; and Goldman Sachs' 100 Most Intriguing Entrepreneurs, among other awards. Nina holds a Master's in Bioelectrical Engineering from Massachusetts Institute of Technology (MIT), and two advanced degrees from Columbia University – an MBA and a PhD in Biomedical Engineering.

## ASEI Engineer of the Year - (Transportation & Sustainability)



**Dr Praveen Vayalamkuzhi**  
CEO, MobilityVision

<https://www.linkedin.com/in/praveenvayalamkuzhi/>

Dr. Praveen, an engineer-turned-entrepreneur, possesses extensive international experience in transportation safety research, with a focus on engineering and education measures. As the Founder and CEO of MobilityVision Inc., he leads a science-driven organization dedicated to global safe and sustainable mobility.

Dr. Vayalamkuzhi's impactful contributions include spearheading the development of practical highway safety decision-making tools for Caltrans during his tenure at UC Berkeley. He plays pivotal roles in international organizations like IRF(Global), co-chairing the Task Force on Artificial Intelligence for Road Safety, and actively engages with NASEM's Transportation Research Board, and with the American Society of Civil Engineers and as a board member with ASEI.

A sought-after speaker, moderator, and reviewer, he has received honors like the Rising Star of Safety 2022 by the National Safety Council and Forty Under 40 in 2022 by the Association Forum. His pioneering transportation safety research earned him the title of Fellow of the Royal Society of Arts (RSA) in 2023, contributing to social advancement.

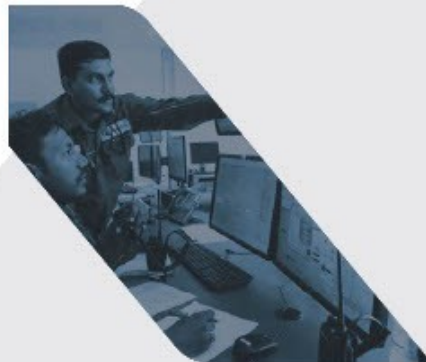


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# ASEI AWARDS 2023

## ASEI Service Excellence



**Surbhi Kaul**  
Vice President,  
Juniper Networks

<https://www.linkedin.com/in/surbhikaul/>

Surbhi's leadership role at Juniper centers around enhancing customer experiences through the integration of Juniper's Experience-First Networking initiatives across every facet of the customer journey.

With over two decades of impactful leadership in product design, development, and strategy within Fortune 500 companies, Surbhi is a seasoned professional who has spearheaded visionary product and engineering teams at tech giants such as Google, YouTube, Netflix, and Cisco. Over the past ten years, Surbhi has led the successful launches of multiple groundbreaking products, many of which incorporate cutting-edge AI and machine learning technologies.

She is deeply committed to DEI Initiatives & giving back to the community. Besides being on ASEI National and Silicon Valley boards, she has served IIT Foundation; and San Francisco chapter of Women in Product.

Not only has she served various task forces for National chapter including sponsorship, elections etc., Surbhi has spoken at multiple ASEI events including CXO summit and recent Product /GenAI events organized by ASEI Silicon Valley chapter.

Surbhi received a BTech from IIT Kanpur and a Master's in Computer Science from Texas A&M University and a General Management Program Exec degree from Harvard Business School (HBS).



**Muthu Sivanantham**  
Industry Solutions Leader  
Dassault Systems

<https://www.linkedin.com/in/muthusivanantham/>

## Hari B. Bindal ASEI Founder's Award of the Year

Muthu has been serving ASEI for the past 3 years as the President of the Michigan Chapter reenergizing the local activities as we were coming off the pandemic. In the past 6 months, he assumed the important role for ASEIcon2023 as its Co-Chair

Professionally, he is responsible to provide game-changing Industry solutions to Energy, Materials & Manufacturing customers, act as their trusted advisor and promote Digital Twin Solutions in the Industry. Muthu is a passionate Technology Leader focused on sustainability, climate tech, and carbon free energy with a special eye for advanced nuclear power. He has over 28 years of Industry experience serving customers from Automotive, Aerospace and now the Energy Industry with a strong acumen in Digital Manufacturing and Product Lifecycle Management.

Muthu is an Electrical Engineer from NIT Allahabad India, with a Master's Degree in Computer Science from Oakland University Michigan. He also earned a Master's Certificate in Business Leadership and Management from MSU's Eli Broad School of Management. Muthu serves on ASME's Digital Twins task group as a key contributor in addition to being part of the PPI Industry Council.

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## Youth Technology Exposition

ASEI Michigan chapter is organizing the 3<sup>rd</sup> ASEI Youth Technology Exposition (YTE) for Middle and High School students. The Youth Technology Exposition is designed to encourage exploration of Science, Technology, Engineering and Math. ASEI provides a unique opportunity to showcase understanding of STEM to professionals including scientists, engineers, entrepreneurs, and corporate leaders across USA. All YTE participants will get the ASEI Plaque and a \$25 gift certificate. This Exposition is part of 35<sup>th</sup> ASEI National Convention – ASEICon 2023.

YTE 2023 is featuring following exhibits and participants:

Team #	Exposition Project Title	Participants
1	Past, Future & Beyond: An Assessment of Water Quality Trends in Barnegat Bay, New Jersey	Tommy Fan, Dhruv Rana
2	Low Cost Electrostatic Method for Efficient Cleanup of Oil Spills	Oliver Wang
3	Laugh for Lungs®	Rithi Ramamurthy
4	3D Printing and AI	Kaviraj Raman
5	EnergizeR	Rapid Robots Novi/Team
6	First Tech Challenge - Robotics	Vinay Shah/Team
7	The Hornets Robot	Nivedita Maringanti/Team
8	First Lego League - Robotics	Steam Bolts Team



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# ASEICon2023 Program

7:30 am - 8:00 am	Registrations Setup Breakfast Setup	
8:00 am - 8:45 am	Registrations - Breakfast	
8:45 am - 9:00 am	Grand Ball Room ASEI Opening Remarks by <a href="#">Muthu Sivanantham</a> , <a href="#">Rakesh Patel</a> , <a href="#">Piyush Malik</a> Welcome address by Southfield Mayor <a href="#">Kenson J. Siver</a> <a href="#">Gary Peters</a> US Senator (Video)	
9:10 am - 9:40 am	Keynote - <a href="#">Mamatha Chamarthi</a> SVP & Chief Business Growth Officer, Software, Stellantis	
9:55 am - 10:40 am	Mobility Industry in 2035 <i>Inderpal Deol (VP, DTE), Larry Schester (Flex) &amp; Amrit Mehta (VP, Bridgestone)</i>	
	Jefferson Room	Woodward Room
10:45 am - 11:30 am	Innovations & Digital Evolutions in the Industry <i>foreword by Radha Krishnan, President, DEP</i> <i>Dr. Soma Venkat, SVP/CIO Cooper Standard,</i> <i>Dr. Raj Ramesh, AI Author/TEDx</i>	Technology trends and infrastructure needs for the energy transition <i>foreword by Vel Subramanian, GHD</i> <i>Tej Gidda-GHD</i>
11:35 am - 12:20 pm	Preparing to enter an industry that is going through a once in a century transformation <i>Bhavesh to Introduce speakers</i> <i>Ritu Barkotoky, HR Director, Amsted Automotive</i> <i>Ghassan Kridli, Dean, UM - Dearborn</i>	Building Economies of the future - Energy & Infrastructure <i>foreword by Ram G. Ramanujam (Somat Engg.)</i> <i>Vinit Gupta-ITC on Grid (Power) Infrastructure</i> <i>&amp; Ron Brenke-ACEC on Civil Infrastructure</i>
12:20 pm - 1:05 pm	Lunch / Awards (Entrepreneur / Engineers of the year/ Service Excellence)	
1:10 pm - 1:55 pm	Being Bold, Brave and Unstoppable in Corporate America <i>Vatsala to Introduce speakers</i> <i>Ankur Ganguli -GM, &amp; Ashwini Balasubramanian- Harley Davidson</i>	
2:00 pm - 2:45 pm	Reskilling for the Mobility Transformation <i>Rophin Paul- CEO, Wipro Pari,</i> <i>Ravi Ramamurthy-GM, Hushedar Mehta- CGI</i> <i>Glenn Stevens, ED, MICHAUTO</i>	Energy Transition - Combating Climate Change <i>Nijaruna Niranjan - Master Fluid Solutions</i> <i>Muthu Sivanantham - Dassault Systemes,</i> <i>Sujith Thannikkatt - Co founder Longman Energy</i>
2.50 pm - 3:30 pm	Focus on sustainability - Do Well by Doing Good <i>Anand Sankaran - Ford,</i> <i>K Venkatesh Prasad - CAR</i>	Digital Transformation, Cybersecurity & AI <i>Anjali Kottha-GMS Registrar</i> <i>Anish Verma - CMO, Mintmesh</i> <i>Radha Krishnan - President, DEP</i>
3.40 pm - 4:15 pm	Keynote: "Uncertainty, Risk & Engineering a Better Tomorrow" - <a href="#">K Venkatesh Prasad</a> , Chief Innovation Officer, CAR	
4:15 pm - 4:45 pm	Break	
4:30 pm - 5:30 pm	Youth Technology Exposition - Jefferson Room	
5.30 pm - 6:30 pm	Banquet Registration, Appetizers (5:30 PM), Networking	
6.30 pm - 10.00 pm	Welcome Address (ASEI MI introduces <a href="#">Anu G</a> , MC for the evening) <b>Banquet Keynote</b> - <a href="#">Shawn Lee</a> , TEDx Global, Lead Influencer Awards & Entertainment followed by Dinner	



## **35<sup>th</sup> ASEICon - Banquet Program**

6.30 pm : National Anthems

6.35 pm : Welcome by ASEIcon Co-Chairs

6.45 pm : Keynote Speech by Shawn Lee, TEDx Global

7.15 pm : ASEI National President Update

7.25 pm : ASEI Founder's Award

7.35 pm : Entertainment Preview

7.50 pm : CERP Awards and ASEI Engineer of the Year Award

8.10 pm : Dinner & *Entertainment*

8.45 pm : ASEI Lifetime Award, Tributes, Recognition & Vote of Thanks

9.30 pm : Entertainment and Open Dance Floor





## Opening Remarks



**Muthu Sivanantham**  
ASEI MI President  
ASEICon Co-Chair



**Rakesh Patel**  
ASEICon Co-Chair



**Piyush Malik**  
ASEI National President

## Welcome Message



**Mayor Ken Siver**  
City of Southfield



**Senator Gary Peters**  
Michigan

## Keynote Speakers



**Mamatha Chamarthi**  
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Stellantis



**K. Venkatesh Prasad**  
Chief Innovation officer  
CAR



**Shawn Lee**  
TEDx Global Speaker

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CEO  
Wipro Pari Robotics



**Ravi Ramamurthy**  
Assistant Chief Engineer  
Electrification, GM



**Hushedar Mehta**  
Vice President  
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**Glenn Stevens**  
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**Nijaruna Niranjan**  
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Master Fluid Solutions



**Muthu Sivanantham**  
Industry Solutions  
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**Anand Sankaran**  
Senior Director  
Ford Motor Company



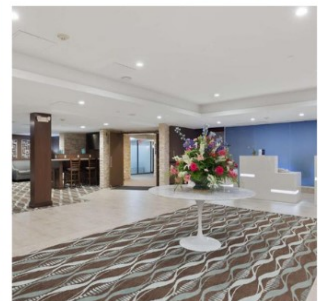
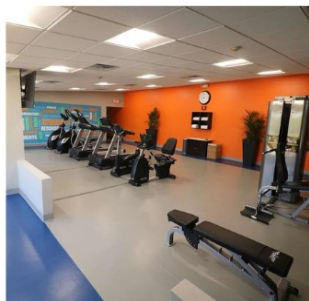
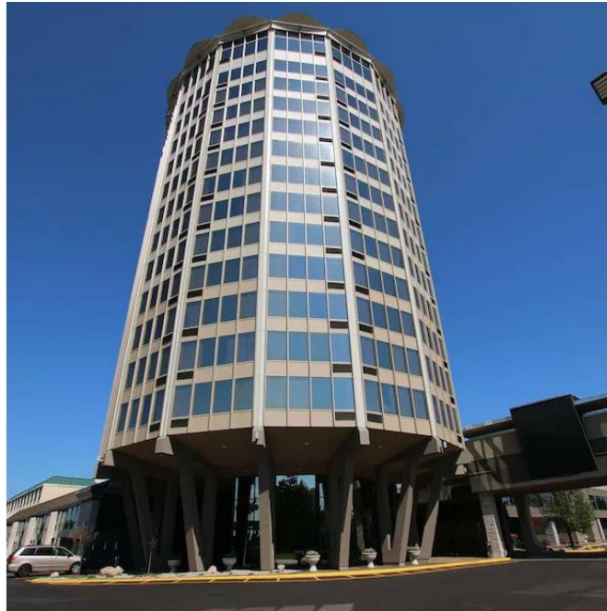
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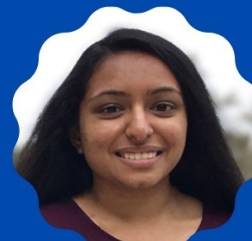
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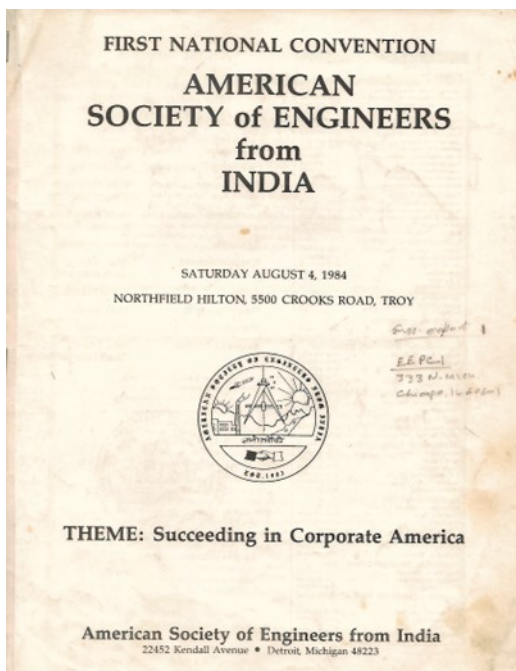


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