



American
Society of
Engineers of
Indian Origin



31st National Convention

*Life Sciences and
Health Technology*

*Information
Technology*

*Infrastructure
and Utilities*

*Emerging Trends in
Small Businesses*



3rd December 2016, Cal Poly Pomona, CA



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ASEI

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ASEI

Program schedule



American Society of Engineers of Indian Origin
Southern California Chapter

31st ASEI National Convention, Dec 3rd, Cal Poly Pomona, CA

08:00 am - 09:00 am	Registration & Breakfast at Ursula Major Room, Bronco Student Center			
09:00 am - 09:10 am	Welcome Address - Convention Chair and ASEI So Cal Chapter President, ASEI National Chair, Dean of Engineering, Cal Poly Pomona			
09:10 am - 10:20 am	09:10 am Plenary Keynote - Ursula Major Mr. Ashwin Rangan, Senior VP, ICANN Exploring and Expanding the Digital Frontier	09:45 am Plenary Keynote - Ursula Major Mr. Ravi Tikak, Founder CEO, Almex Ind. Ancient Indian Sciences and Engineering		
10:20 am - 10:30 am	BREAK			
	Infrastructure and Utilities Orion A & B (56)	Information Technology England Evans (62)	Life Sciences and Health Technology Andromeda (72)	Emerging Trends in Engineering Orion C (25)
	Track Chairs Dr. Krishna Nand, VP, Env. Mgmt. Professionals Vamsi Mohan, IT Consultant	Track Chairs Vijay Kotrappa, CEO, Second Differential Subba Gopavarapu, CEO, GSRTI.	Track Chairs Richa Nand, Managing Attorney, Insight Patents Arun Rajaram, Director, Merry Lynch	Track Chairs Gopal Chakravarthy, 21st Century Fox Vardhaman Veeragoudar, Retired Engineer
10:30 am - 12:10 pm	10:30 am Wastewater Treatment - New Directions Dr. Madan Arora and Kyle Fuller	10:30 am Data Collection, Integration, and Analysis in Hospitals Neeraj Bhavanj, CEO, Tagnos	10:30 am Developing Cell Therapies for unmet Medical Needs Dr. John Fraser, Chief Scientist, Cytori Therapeutics, Inc	10:30 am ShakeAlert - Earthquake early Warning in Southern California, Dr. Robert de Groot, USGS
	10:55 am Conversion Technology, Sustainability, and LA County Kawzar Vazifdar, M.S.	10:55 am Managing IT During Enterprise Mergers Subbu Murthy, CEO, UGoverntIT	10:55 am Regenerative Medicine for Advancing Health Care: From Stem Cells to Organs-on-Chips Shyni Varghese, Prof. Dept of Bioengineering UCSD	10:55 am Innovation Through Product Management Devang Thakkar, President InnoTivum Consulting
	11:20 am Water-Energy Nexus: The Synergy of Energy Efficiency and Water Conservation, Lance Brown, VP, Smart Utility Systems	11:20 am Living in a Hyperconnected IoT World Gajinder Singh Vij, Director Product Mgmt, Intel	11:20 am Leading Disruption in Healthcare Dr. Raj Krishnan, Ph.D, CEO Biological Dynamics Inc	11:20 am Chatstasy: A Smart Way to Chat on a Smartphone Ram Seshan, CEO TapNChat
	11:45 am Utility Transformation through Cloud and Mobile Technologies, Harman Sandhu, Smart Utility Systems	11:45 am 5G Networks and Application Architectures enabling Connected Health, Professor Sujit Dey, UCSD	11:45 am Global Healthcare Delivery : Future Perspectives Ash Mehta, CEO Patient Click EHR	11:45 am Emerging Trends in Multidisciplinary Collaborative Research, Dr. Ganesh Raman, Cal State University
12:10 pm - 12:40 pm	LUNCH, Ursula Major Room, Bronco Student Center			
12:40 pm - 12:55 pm	Student Scholarships Awards			
12:55 pm - 01:55 pm	12:55 pm Plenary Keynote The Role of Natural Gas to meet Air Quality Challenges Cherif Youssef, Technology Dev Manager, SoCalGas	01:15 pm Plenary Keynote Future Evolution of the Practice of Medicine Dr. Harvinder Sahota, "Hero of the Heart"		
01:55 pm - 02:20 pm	BREAK			
02:20 pm - 04:00 pm	02:20 pm Energy Storage - Challenges of Integrating Renewable Resources and Serving Customer Load Jorge Somoano, Burbank Water & Power	02:20 pm Fast, Accurate and Actionable Predictive Analytics for Non-analysts, Naresh Soni, CTO, Tsunami VR, SBARZ	02:20 pm How Technology is Transforming Health Care Dr. Venu Prabhakar, Faculty of Medicine, UCSD	02:20 pm - 04:00 pm Student Mock Interviews (Persius and Orion C)
	02:45 pm EV Charging and the Integrated Grid Charles Botsford, Aerovironment	02:45 pm Smart Spaces and Data Visualization Babu Arunachalam, VP Research, VIZEXPLORER	02:45 pm Biomimicry, Suregry and Wearables for Tendon and Ligament Repair Dr. Anthony Ratcliffe, Ph.D, CEO Synthesome Inc.	
	03:10 pm Customer Engagement: Empowering Customers for Sustainability, Lance Brown, Smart Utility Systems	03:10 pm 5 Steps to securing your Business Manish Bhardia, Adeptek Consulting	03:10 pm Artificial Intelligence in Life Sciences: Emerging Trends and Applications Anindya Sharma, Managing Partner Accelerant	
	03:35 pm Panel Discussion	03:35 pm Microsoft's Strategy for VR and AR Eugene Chi, VP Microsoft	03:35 pm Panel Discussion	
04:00 pm - 04:30 pm	BREAK			
04:30 pm - 06:00 pm	Banquet Registration, Social Hour and Snacks; No host bar			
06:00 pm - 06:15 pm	Welcome, National Anthems, About ASEI - History and Plans, Announcement of Seattle Chapter, Rakesh Patel, ASEI National Chair, Ursula Major Room, Bronco Student Center			
06:20 pm - 07:30 pm	06:20 pm Plenary Keynote Sam Pitroda, Engineer, Visionary, Policy Maker, Entrepreneur, Artist, ...	06:50 pm BV Jagdeesh, "ASEI - Engineering Entrepreneurship Award" "Importance of Venture Capital for Technology Entrepreneurs"	07:10 pm Comedy Relief by Dan Nainan Dance Interludes by Karmagraphy	
07:40 pm - 08:30 pm	Presentation of Awards followed by Dinner			
08:30 pm - 10:30 pm	Entertainment - More Standup Comedy, Karmagraphy and Dinner			



ASEI

About ASEI

The American Society of Engineers of Indian Origin (ASEI) was founded in 1983 in Detroit Michigan by Mr. Hari Bindal with the objectives of facilitating networking, recognitions, and technical liaison between India and the USA.

Mr. Bindal contacted over 50 fellow engineers to obtain their consent and join in his efforts for the start-up of the organization. Mr. Bindal conducted a signature campaign and received some 150 signatures. He then organized a meeting on May 5, 1983 at the Farmington Public Library, to form an organization of engineers from India. A resolution to form the organization was passed and named the “American Society of Engineers from India (ASEI)”. The kickoff event was held on September 9, 1983, at the Dearborn Community Center and attracted over 300 people. Over 75 became members that evening. Mr. Bagla, Minister for Economics representing the Embassy of India in Washington DC, gave an arousing inaugural speech.

Mr. Navin Pandya, well known in the Detroit area, wrote the constitution and bylaws of ASEI. This constitution was signed by twenty six (26) members who were present in the May 5, 1983 meeting. These 26 members were called the “Founding Members of ASEI”. Mr. Bindal, with help from Dr. Hans Bajaria, got ASEI registered with the IRS under Sec 501(C) (6), and also with the state of Michigan as a Nonprofit Educational Organization. The organization also started a quarterly “ASEI Newsletter” in the same year.

The ASEI original logo, selected from a logo contest, consisted symbols representing India and the USA, a compass, a handshake, and a slogan “Gyano Sarvopari”, encircled with name and year of founding. In 1992, the logo was changed to the current “link of two circles”, based on ASEI-NCC Newsletter “Link”. In 1992, the name was also changed to “American Society of Engineers of Indian Origin”, retaining the acronym as ASEI.

Within two years, ASEI grew to over 400 members. Letters from all over USA, Canada, and some from India came complementing the formation of ASEI. The first convention was held in August 1984 in Michigan. ASEI awards and recognition system started from the first annual convention. In 1985, ASEI presented an honorary membership and ASEI memoranda to the visiting Indian Prime Minister Rajiv Gandhi, as he was an engineer by profession.

Periodic technical seminars were held during the beginning years. Mr. Bindal moved from Detroit to Florida in March 1986. Dedicated members, including Nirdosh and Asha Reddy, Noor Kapadia, and Yogi Anand diligently groomed ASEI over the next eight years and held the annual conventions in Michigan with Mr. Bindal’s dedicated support.

Mr. Bindal moved to Washington DC in 1988, and started the ASEI National Capital Chapter (NCC) in 1990. ASEI NCC hosted the 9th National Convention, in the DC area and the first time away from Detroit. The 10th National Convention was held in Huntsville, AL, that celebrated the 10th anniversary in 1993 and the souvenir published included the history of first ten years of ASEI. Subsequent conventions were held in other cities such as Atlanta GA (1997), Buffalo, NY (1999), Orlando, FL (2000), and the rest back and forth between Detroit and Washington DC.

The Cleveland, Ohio Chapter was founded in 2003 with the initiatives of Mr. Jagannath Kottha and Mr. Paramjit Singh. This chapter hosted ASEI 20th and 22nd Annual Conventions in 2003 and 2005,



respectively. In 2004, the Michigan Chapter held one of the largest conventions with over 450 attendees under the able leadership of Mr. Perry Mehta.

Several new chapters, including two student chapters (Akron, OH; and College Park, MD) and one in New Delhi, India, were installed during this period to a total of 12 chapters. In 1996, three new programs were added: ASEI Student Scholarship, Science Fair Award, and Business Plan. The Southern California Chapter (SoCal) was founded by Boeing engineers: Sharanpal (Paul) Sikand, Darsh Aggarwal, Jayant Patel, Ravi Kahandal, and Sham Hariram in 2004. The SoCal Chapter hosted a very successful 23rd National Convention in 2006, which attracted over 400 attendees. Since then the SoCal chapter has hosted conventions in 2010, 2011, 2014 and now hosting the 31st annual convention in 2016 at Cal Poly Pomona.

In April 2009, a delegation of ASEI met with India's past President, Dr. Abul Kalam, who is an engineer, and presented him with the ASEI memoranda and an Honorary Membership of ASEI.

Following is a list of the ASEI leadership from 1984 to date.

Year	Chairmen/Presidents of the National Board		Year	Chairmen/Presidents of the National Board	
1984	Constancio Miranda	Jayprakash Shah	2001	Dhirendra Saxena	Vipin Mehta
1985	Hansraj Bajaria	Yogendra Anand	2002	Vipin Mehta	Ravi Rout
1986	Navin Pandya	Nuruddin Kapadia	2003	Vipin Mehta	Ravi Rout
1987	Nuruddin Kapadia	Venkat Rao	2004	Ravi Rout	Jag Kottha
1988	Venkat Rao	Nirdosh Reddy	2005	Jag Kottha	Perry Mehta
1989	Nirdosh Reddy	S.M. Shahed	2006	Jag Kottha	Perry Mehta
1990	S.M. Shahed	Asha Reddy	2007	Jag Kottha	
1991	Asha Reddy	Shailesh Vora	2008	Jag Kottha	
1992	Shailesh Vora	Sudhir Jain	2009	Jag Kottha	
1993	Ram Reddy Nomula		2010	Paul Sikand	
1994	Chandrika Prasad		2011	Shreekant Agrawal	
1995	Chandrika Prasad		2012	Shreekant Agrawal	
1996	Jagdish Agrawal	Shiv K. Jindal	2013	Shreekant Agrawal	
1997	Shiv K. Jindal	Manohar Singh	2014	Subba Rao Gopavarapu	
1998	Manohar Singh	Gajanan Deshmukh	2015	Subba Rao Gopavarapu	
1999	Gajanan Deshmukh	Ravi Singh	2016	Rakesh Patel	
2000	Ravi Singh	Dhirendra Saxena			



ASEI

ASEI National Board of Directors



Rakesh Patel
President



Aaron Ghumman
Vice President



Kupp Sridhar
Treasurer



Ashok Madan
Board Member



Gunjan Bagla
Board Member



Bhavesh Joshi
Board Member



Bhushan Modi
Board Member



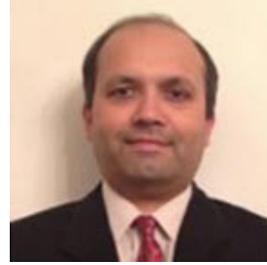
Dr. Thomas Abraham
Board Member



Prakash Patel
Board Member



**Krish
Krishnamurthy**
Board Member



Jwalant Lakhia
MI Chapter
President



Piyush Malik
Silicon Valley
Chapter President



Aastha Verma
NCC Chapter
President



Suresh Ladva
SoCal President

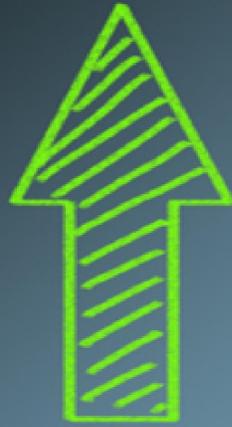


Tim Mathanagopal
Florida Chapter



Subba Gopavarapu
Past President

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ASEI CHARTER

ASEI Charter

ASEI Vision

Create a national network of technical professionals of Asian Indian Diaspora living in the US to provide a platform for networking, career advancement, community service, technology exchange and to develop the next generation of scientists and engineers.

ASEI Mission

1. Provide networking opportunities for professionals, students, and businesses
2. Provide career guidance and mentoring to members and students
3. Recognize outstanding engineers, students and entrepreneurs
4. Provide student scholarships
5. Promote careers in Science, Technology, Engineering and Math
6. Participate in humanitarian projects
7. Promote Indo-American relationship
8. Promote technology transfer between India and USA
9. Host annual national and local conventions to advance ASEI Mission

ASEI Purpose

1. The purpose of ASEI is to develop and nurture the next generation of engineers and technical professionals.
2. ASEI is committed to making our communities better places to live. Therefore every chapter supports the local community events, encourage our team members to volunteer and donate generously to charities. ASEI aim to give back to the community by spurring development and economic growth in vibrant economies as well as under-developed regions.

ASEI Chapters

1. Michigan Chapter – Detroit, MI
2. National Capital Chapter – Washington DC
3. Ohio Chapter – Cleveland, OH
4. Florida Chapter – Orlando, FL
5. SoCal Chapter – Greater LA
6. Silicon Valley Chapter – San Jose, CA
7. Seattle Chapter – Seattle, WA

ASEI Student Chapters

1. University of Maryland
2. University of Louisville
3. Cal State Long Beach



Best Wishes to
31st ASEI National Convention
Congratulations!
ASEI SoCal Chapter



Hari Bindal
Founder of ASEI





ASEI SOCIAL CHAPTER

About ASEI SoCal Chapter

In 2004, five visionaries Paul Sikand, Darsh Aggarwal, Jay Patel, Ravi Kahandal, and Sham Hariram from The Boeing Company became the founding fathers of the ASEI SoCal Chapter. Under their astute leadership they enlisted other budding engineers and managers in Boeing into the organization to reach a critical mass to be recognized by Boeing under its diversity program. Ever since Boeing has been a platinum sponsor every year and this would have not been possible without the diligent efforts of our founding fathers. Paul Sikand was the first President of ASEI SoCal Chapter from 2004 to 2006 and he was the first to organize and host the 23rd National Convention with the theme “Improving Quality of Life through Technology” in September 2006. In 2006, when his tenure expired, the leadership mantle was passed on to Shreekant Agrawal.

Under the able leadership of Shreekant Agrawal, the membership was expanded to include engineering professionals and scientists from academia, government and industries in Southern California. The membership swelled from a modest number to several hundreds. In 2008 the SoCal Chapter successfully hosted an International Sanitation Symposium which was attended by renowned sanitation and environmental leader Dr. Pathak. The purpose of the symposium was to improve the sanitary conditions in India through public and private partnerships within a framework that combines technology, business and cultural aspects.

In 2009, with the passing of the baton to Aaron Ghumman, he engaged the members by organizing Tech Talks and provided a platform to perform community service by partnering with other non-profit organizations. In 2010, Aaron also organized and hosted the 25th National Convention with the theme “Innovation Technologies for a Greener Tomorrow”. The convention was well organized with reputed speakers with more than 350 delegates in attendance. With Aaron’s departure from SoCal to Seattle, Subba Rao Gopavarapu was chosen to lead the association.

With a successful convention under their belt, in 2011 the national committee requested ASEI SoCal to host the convention again. Subba took up the challenge and within a short period of four months, he was able to organize the 26th National Convention with the theme “New Frontiers in Information Technology”. With the advent of this convention, ASEI was exposed to IT professionals and many new members joined the organization. It was Subba’s vision to increase the member enrollment and to encourage potential members, he recommended to the board to waive off membership fee and made it free. Under his dynamic leadership, the following year the number of members almost doubled. He was also instrumental in opening a student chapter at Cal State Fullerton.

Upon Subba’s expiration of his tenure in 2012, Krish Krishnamurthy took over as President of ASEI SoCal. Krish continued the traditions of his predecessors but also ensured that he engaged the members more often by increasing the frequency of Tech Talks and holding year end functions to celebrate the achievements of its members. In 2014, SoCal Chapter hosted the 29th National Convention with Kupp Sridhar as the convention chair and was ably assisted by his core team of board of directors besides many volunteers and well-wishers. The theme of the convention was “STEM: Ideas for the 21st Century”.

The current president is Suresh Ladva and is the host of the 31st National Convention. The SoCal Chapter is proud to state that it is one of the strongest and most successful chapters and this is entirely due to the dedication to service of many of its members. Over the years these individuals represent the core strength of the ASEI organization.



ASEI SOCIAL CHAPTER

ASEI SoCal Board of Directors



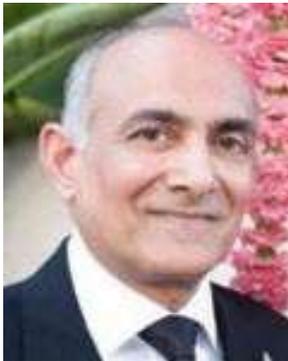
Suresh Ladva
President



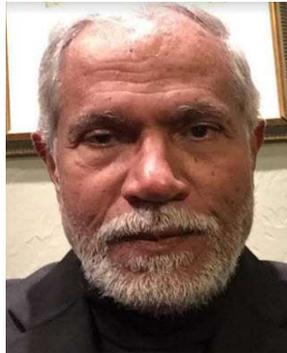
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Arun Kiri
Board Member



Vardhman Veergouder
Board Member



Arun Rajaram
Board Member



Srinivas Bhat
Board Member



Gopal Chakravarthy
Board Member



Richa Nand
Board Member



MESSAGE FROM ASEI PRESIDENT

President's Message



I am pleased to welcome our distinguished speakers, keynote speakers, fellow engineers, scientists and all the participants of ASEI's 31st National Convention. I am honored to serve ASEI and am grateful to the National Board and Local Chapter's Executive Committee Members for their support and confidence in bestowing me with this distinguished position and opportunity.

The theme of this year's convention is ***"Technology Driven Future"***. With the arrival of digital revolution and transformation, things are going to be very disruptive. Will this change bring growth in our economy? Will our future be shaken? New technologies will certainly influence what we do and how we think, we will to adapt to constant innovations and improvements, it will change our future and possibly transform humankind. This convention provides a unique opportunity to bring talented leaders to share their experience in the field of Technology Driven Future. Let's take this opportunity to address technology driven future which will is destined to transform our lifestyle.

ASEI was founded in 1983 and looking back over the past 32 years, ASEI has come a long way from being a small regional organization to a National organization with several chapters throughout the country. We take pride in our achievements through various programs and recognition such as Corporate Excellence Recognition Program (CERP), Scholarship Awards, Technical Symposium and Networking Meetings, STEM Awareness, Youth Mentoring and Exhibitions, Cultural Events, and Community Service Activities.

On behalf of ASEI, I want to extend a heartfelt thanks to our convention sponsors, brochure advertisers and exhibitors for their support and commitment to make this convention successful. It was the vision of the Convention Planning Team to inform, entertain, and provide a networking forum to our guests in a pleasant and comfortable environment. Our goal for today's event is to meet and exceed your expectations.

This message would be incomplete if I did not express a word of thanks to my family, all the attendees of the convention and ASEI SoCal chapter team for their selfless dedication and efforts to make this convention a huge success. Hope you enjoy the convention.

Best regards,

Rakesh Patel
ASEI National Board President

"Best way to drive future is to think, invent and build it"

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MESSAGE FROM SOCAL PRESIDENT & CONVENTION CHAIR

Message from the Convention Chair



Normal people...believe that if it ain't broke, don't fix it.

*Engineers believe that if it ain't broke, it doesn't have enough features yet" - **Scott Adams***

On behalf of The American Society of Engineers of Indian Origin (ASEI) So. Cal Chapter and Board of Directors, I want to welcome you all to our 31st National Convention.

The theme for the event is Technology Driven Future "TDF", which is apropos for the time and place. We in Southern California are excited to be in the thick of "TDF" with start-ups of Bio-Tech to Electric car revolution to transporting humans to the outer space.

An event of this magnitude is no small feat, so I want to thank all the sponsors, speakers and volunteers for their time and service. Most of our sponsors were eager to participate in this event, as they see a great value not just to the society, but also to their organization by enhancing their diversity programs. Many of our sponsors partake in recognizing their excellent performers thru CERP.

Our speakers are leaders in their fields are uniquely qualified to share knowledge in their fields from Life Sciences to Health Technology to Information Technology to Infrastructure and Utilities to Emerging Trends. In these tracks, you'll have opportunities to discuss intimately with the speakers, so bring your questions.

Volunteers have worked tirelessly over the past 6 months and in lots of cases paying out of their pockets to ensure the success of the event.

The state of So. Cal Chapter is strong and becoming stronger. We just added another student chapter at CSULB and refocus on strengthening others (UCI, CSUF), as well as looking to add other school chapters in the area. We have great Board of Directors and members from all walks of life from students to employees from fortune 100 companies to business owners themselves. Like any vibrant and thriving organizations, we need to expand our current core members by providing more tools such as interviewing skills or improving resumes or net working for personal and professional growth.

Become a life member and add value to yourself and others.

Thanks you for your support,

Suresh Ladva
President & Convention Chair
ASEI

SoCal

Chapter

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KEYNOTE SPEAKERS

Keynote Speakers



Ashwin Rangan

Ashwin (“Ash”) Rangan currently serves as ICANN’s SVP, Engineering and Chief Information Officer (CIO in ICANN’s Los Angeles. Throughout his career, Ash has driven global expansion. He has been at the forefront of innovation through the skillful leverage, use and implementation of Information Technology systems, processes, infrastructure and management. Prior to joining ICANN, he served as the CIO for a variety of companies in different Industry-verticals, including Edwards LifeSciences, MarketShare, Walmart Inc., Conexant Systems, and Rockwell International. Ash holds a Master’s degree from National Institute of Industrial Engineering in Mumbai, India; and a Bachelor’s degree from the Bangalore University, India. He is a long-standing member of the International MENSA. He also has authored two books on IT and the role of CIO in transforming IT and aligning relationship with senior peers.



Ravi Tilak

Ravi Tilak is the President of Almex USA, Inc., a company specializing in metallurgical plants and process equipment supply to the Aluminum industry worldwide. Mr. Tilak has a Masters Degree in Metallurgical Engineering and has 16 patents to his credit. He is a graduate of IIT Bombay (1980). Mr. Tilak is active in several Indo-American philanthropic and community organizations.

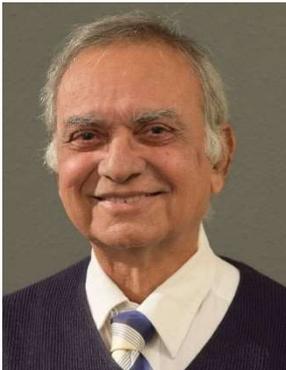


KEYNOTE SPEAKERS



Cherif Youssef

Mr. Youssef is the Technology Development Manager for the Southern California Gas Company. Mr. Youssef has 41 years of experience in the energy industry with past responsibilities in Marketing, Human Resources, Operations and Engineering. He is responsible for managing a \$10 million per year R&D program. This program is focused on developing and demonstrating new products and technologies to help customers use energy more efficiently, meet their environmental regulations, use renewable energy and use alternative fuel vehicles. Currently serving as the Chairman of the Gas Technology Institute – Utilization Development Program and the Energy Solutions Center – Industrial and Major Account Consortium. Mr. Youssef has a Bachelor and Masters in Electrical Engineering from the University of Southern California.

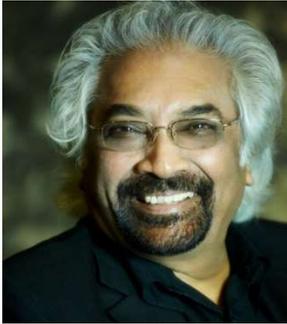


**Dr. Harvinder
Sahota**

Inventor of the “Perfusion Balloon Angioplasty” was born in Punjab, India. In addition to the Perfusion Balloon invention, he holds two dozen patents and many others pending inventions namely: “Red Laser Light” for prevention of Restenosis, “Multi-lobe Balloon”, “Fibrin Coated Stent”, and Inventor of Haemostat (to stop bleeding from punctured artery after the procedure). Currently he is holding license to promote a drug-coated stent. He has performed the first coronary Angioplasty in many places around the world including: India, Mexico, Russia, Ukraine, and United States. Presently, he is Chairman of the Emergency Medicine Commission in Orange County, CA and Research Director and Advisory Board member of the Metro Hospital-Heart Institute in New Delhi (India), and Tbilisi (Republic of Georgia). He accomplished his residency in the US, Canada, and UK and holds license to practice cardiology in the US and UK.



KEYNOTE SPEAKERS



Sam Pitroda

Mr. Sam Pitroda is an internationally respected telecom inventor, entrepreneur, development thinker, and policy maker who has spent 50 years in information and communications technology (ICT) and related global and national developments. Credited with having laid the foundation for India's telecommunications and technology revolution of the 1980s, Mr. Pitroda has been a leading campaigner to help bridge the global digital divide. During his tenure as Advisor to Prime Minister Rajiv Gandhi, Mr. Pitroda led six technology missions related to telecommunications, water, literacy, immunization, dairy production, and oil seeds. He was also the

founder and first Chairman of India's Telecom Commission. In these plural roles, Mr. Pitroda helped revolutionize India's development philosophies and policies with a focus on access to technology as the key to social change. As a way to induce the second phase of India's technology revolution, in 2005 Mr. Pitroda headed India's National Knowledge Commission (2005-2009), to provide a blueprint of reform for the knowledge-related institutions and infrastructure for the 21st century in the country. Recently, Mr. Pitroda served as Advisor to the Prime Minister of India on Public Information Infrastructure and Innovation, with the rank of a Cabinet Minister. He served as the Chairman of the Smart Grid Task Force, as well as the committees to reform public broadcasting, modernize railways, deliver e-governance, and other developmental activities. Mr. Pitroda is a Founding Chairman of five non-profit organizations including the India Food Bank, the Global Knowledge Initiative and the Institute of Transdisciplinary Health. He is also a founding Commissioner of the United Nations Broadband Commission for Digital Development and Chairman of the International Telecommunication Union's m-Powering Development Board that looks to empower developing countries with the use of mobile technology.



B.V. Jagadeesh

Mr. B. V. Jagadeesh is a successful entrepreneur having founded many companies in Silicon Valley, CA. He also serves on the board for several companies and is an advisor to several startup and mature companies in Information Technology. Presently he is the Managing Partner at KAAJ Ventures. Mr. Jagadeesh has had a role in the success of so many companies in the Silicon Valley and to list them it would not fit on this page. However his rise to fame was when he founded Exodus Communications in 1994 which he built it from the ground up into multimillion dollar enterprise. Ever since, every company that he has been associated with has flourished and he is highly respected business leader in Silicon Valley and India. Mr. Jagadeesh has been an Indo-American entrepreneur for over a decade. He is also a venture capitalist and philanthropist. Mr. Jagadeesh received MS degree in Electrical Engineering from the University of Bombay, India and a Bachelor's degree in Electrical Engineering from the Bangalore University, India.



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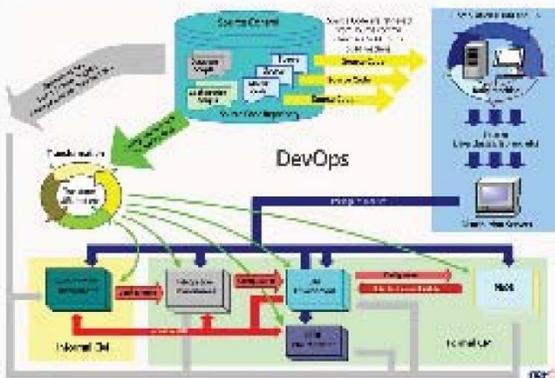
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Shreekant Agrawal

ASEI Service Excellence



Lakhia

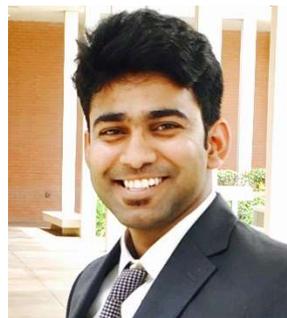
ASEI Founder Award

Jwalant



Manu Shah

ASEI Special Award



Srinivas Gavini

ASEI Student Service Excellence Award



B.V. Jagadeesh

ASEI Entrepreneur Award



Sandhya Selveraj

ASEI Foundation Student Award



Raja Kalavacherla

ASEI Student Leadership Award



2016 ASEI AWARD WINNERS



Rajeev Gupta
SUS CERP Award



Vamsi Krishna Jonnadula
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Hiren Dedhia
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Harman Sandhu
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Award Winners



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Mohith Buxani
University of Louisville
Undergraduate Scholarship



Rajthilak Ganesan
California State University Fullerton
Graduate Scholarship



Prakruthi Hareesh
University of Maryland College Park
Graduate Scholarship

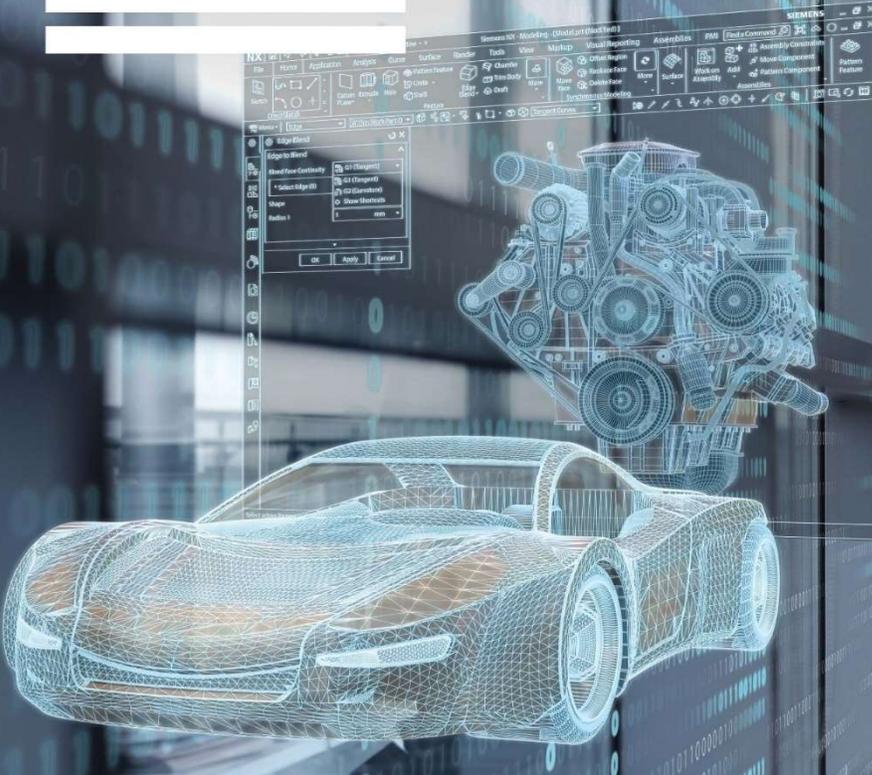


Shreya Malik
University of California San Diego
Undergraduate Scholarship



INFRASTRUCTURE AND UTILITIES SPEAKERS

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INFRASTRUCTURE AND UTILITIES SPEAKERS

Infrastructure and Utilities Speakers



Dr. Madan Arora has a is a Civil Engineer from Punjab University in India, and Master and Doctorate degrees in Sanitary Engineering from Iowa State University. He has over 40 years of experience in water and wastewater treatment planning, design, construction management. Currently he is a technical director at Parsons in Pasadena, CA where he directs and assists in the designing and planning of recycled water facilities for municipalities, agencies and districts using modern and state-of -the art technologies. Dr. Arora has authored and/or presented over 80 articles in technical journals in wastewater treatment and water recycling. Dr. Arora is a Diplomat of the ACADEMY OF ENVIRONMENTAL ENGINEERS AND SCIENTISTS and a registered professional engineer in the state of California.



Kawsar Vazifdar is a Senior Civil Engineering Assistant working for the Environmental Programs Division of the Los Angeles County Department of Public Works. Ms. Vazifdar received BS and MS degrees in Civil and Environmental Engineering from UCLA. She completed her MS with an emphasis in Water Resources and Hydrology. Ms. Vazifdar now works on The Southern California Conversion Technology Project, which aims to develop energy, green fuels, and useful products from solid waste. She also works on environmental policy and legislation relating to solid waste and renewable energy and fuels.



Lance Brown, Vice President of Customer Service Solutions at Smart Utility Systems (SUS) is a customer service professional with more than 35 years of experience in the public utility and retail industries. The majority of this experience was at Los Angeles Department of Water and Power (LADWP), the largest municipal utility in the United States. As director, he was responsible for the activities of more than 1,500 employees directly involved in providing customer service to more than 1.8 million customers. At LADWP, he was involved in installing and implementing new interactive voice response systems, new field order deployment systems and upgrades, improvements in meter reading systems, software and hardware projects for remittance processing and mail center operations. Lance graduated from California State University at Northridge.



INFRASTRUCTURE AND UTILITIES SPEAKERS



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INFRASTRUCTURE AND UTILITIES SPEAKERS



Harman Sandhu is a technology expert focused in Energy and Water sector. He has consulted for Electric and Water utilities in the US for over a decade in areas of Smart Grid, Wholesale Energy Markets, Electricity Market Regulatory Compliance, Commodity Trading, Risk Management, and customer side technologies. His experience includes delivering operational consulting for electric utilities, go-to market strategy for emerging technology solutions, and managing large scale smart grid technology deployment. He has collaborated with a number of US regulators including California Public Utilities Commission (CPUC) on industry initiatives. He has previously held multiple positions with PricewaterhouseCoopers and KPMG for over 11 years.



Jorge Somoano is the General Manager of Burbank Water and Power (BWP). Somoano is a 33-year veteran in the municipal utility field having held significant positions with the City of Vernon Light and Power Department and Riverside Public Utilities prior to working for BWP. He earned his Bachelor of Science in Electrical Engineering from Cal Poly Pomona and later a Master's degree in Business Administration from Woodbury University. Before entering kindergarten, Somoano, came to America as a Cuban refugee along with his parents and six siblings. He spends some of his free time cycling; he recently completed a 150-mile bike ride in support of Multiple Sclerosis. Somoano also serves as an advisor to the Boys and Girls Club of the Greater SF Valley.



Charles Botsford is a professional chemical engineer in the California state with 30 years' experience in engineering process design, distributed generation, and environmental management. He has a wide range of experience relative to oil refining, power electronics, renewable energy systems, electric vehicles, and air quality issues. Mr. Botsford is a Qualified Environmental Professional (QEP), Emeritus and conducts business development activities in AeroVironment's Efficient Energy Systems group.



INFRASTRUCTURE AND UTILITIES SPEAKERS



LIFE SCIENCES AND HEALTH TECHNOLOGY SPEAKERS

Life Sciences and Health Technology Speakers



Dr. John Fraser is Chief Scientist at Cytori Therapeutics Inc, a San Diego-based medical device company commercializing adult stem and regenerative cells obtained from human adipose tissue. He has 30 years of experience working with adult stem cells in both academia and industry and has served as Principal Investigator on numerous grants and contracts from the National Heart, Lung, and Blood Institute of the NIH and the Biomedical Advanced Research and Development Authority. Prior to Cytori, Dr. Fraser was an Adjunct Associate Professor in the Division of Hematology-Oncology at UCLA. He was also Co-Director of the UCLA Bone Marrow Transplant Laboratory and Founder and Director of the UCLA Umbilical Cord Blood Bank. Dr Fraser has a PhD from the University of Otago in New Zealand and a Bachelor of Science degree (Biochemistry and Physiology) from Victoria University of Wellington. He has published more than 40 peer-reviewed papers and has 25 patents issued in the USA and many more internationally.



Dr. Shyni Varghese is an Associate Professor in the Department of Bioengineering at the University of California San Diego (UCSD). Shyni is also an Affiliate Faculty in the Nano-Engineering Department and Materials Science, quantitative biology program, and Institute of Engineering in Medicine at UCSD. Dr. Varghese's laboratory works at the interface of bio-inspired materials, stem cell biology, and medicine focusing on understanding the role of physicochemical cues of the extracellular matrix on stem cell behavior and tissue regeneration and disease progression. Dr. Varghese has coauthored over 80 peer-reviewed research articles, covering a wide range of interdisciplinary topics in stem cells, smart biomaterials, biologically inspired systems, and regenerative medicine. Her research activities have also resulted in over 12 patent disclosures.



Dr. Raj Krishnan is Chief Executive Officer at Biological Dynamics. He received his Ph.D. in Bioengineering from UCSD. Dr. Krishnan's dissertation is the basis of the Biological Dynamics technology. Raj has published several papers on AC Electrokinetics. He was named as a Top 30 under 30 scientist by Forbes magazine in 2012 and was in UK Wired Magazine's Smart List in 2013. His topic for this convention is Biological Dynamics:Novel Treatment Response Monitoring in Oncology Using cell-free circulating DNA on an AC Electrokinetics (ACE) Lab-on-Chip Platform

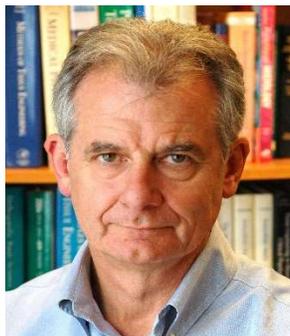


Ashish Mehta, is the CEO of PatientClick, Inc. a web based TeleMedicine, electronic health record and practice management system. PatientClick offers medical office automation with cutting edge technology solution, focused to improve the healthcare delivery model and enhance patient-care. Ashish is a Chemical Engineer by training with a Master's in Business Administration and has more than 16 years of experience in Global Business management. Ashish has been involved with international business



LIFE SCIENCES AND HEALTH TECHNOLOGY SPEAKERS

consulting for economic development initiatives with State of Ohio primary focused on renewable energy, immigrant entrepreneurship, technology transfer, etc. Mr. Mehta has served as Ambassador for World Trade Center in Cleveland.



Dr. Venu Prabhakar is a board certified internal medicine for the past 29 years and currently practices in San Diego. Over the years, Venu has not only practiced medicine but has also taught in leading universities. He has been the faculty of medicine at the University of Arizona, University of California San Diego, Mid Western University and Stanford University. He is associated with various professional associations which includes San Diego County Medical Society and San Diego Physicians of Indian Origin. His passion is to transform health care through technology.



Dr. Anthony Ratcliffe, Ph.D. is President and CEO of Synthasome, Inc., a biotechnology company in San Diego specializing in orthopaedic devices and orthobiologics. Synthasome has an active R&D program with a pipeline of products feeding their Sales and Marketing portfolio presently focused on tendon and soft tissue repair. Dr. Ratcliffe obtained Ph.D. in immunology from the University of Birmingham, UK. He then worked at The Kennedy Institute for Rheumatology, London and Columbia University, New York, as Associate Professor of Orthopaedic Biochemistry, Advanced Tissue Sciences, where he served as Vice President for Research until 2002, when he founded Synthasome. Dr. Ratcliffe has published more than 100 papers, and is an inventor of multiple patents. He has served as a member of the Board of Directors of the Orthopaedic Research Society, Study Sections for NIH, Co-Chairman of the Grant Review Committee for the Orthopaedic Research and Education Foundation, Co-Chairman of the Tissue Engineering Committee for ASTM, is a Fellow of the American Institute of Medical and Biological Engineering, has.

Anindya (Andy) Sharma is a thought leader in providing solutions to global fortune 500 companies. Andy manages business development, marketing and strategy for Accelerant. Andy holds an MS in Aerospace Engineering from Purdue University, USA and a Bachelor in Technology from IIT Kanpur, India. Andy is passionate about technology education in young children and volunteers in local community to support STEAM education.

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INFORMATION TECHNOLOGY SPEAKERS

Information Technology Speakers



Neeraj Bhawani founded Tagnos and oversees the strategic vision for the company. He has over 20 years of experience in healthcare informatics and location technology. He is a recognized expert in wireless healthcare and workflow automation and holds patents for several inventions. Neeraj has served as Sponsorship Chair on the board of the Healthcare Information and Management Systems Society (HIMSS) Southern California Chapter and is the current Co-Chair for EvoNexus IoT group. Prior to founding Tagnos, he served in management consulting and IT leadership roles at Kaiser Permanente, IBM, Amgen, Blue Shield and THQ Wireless. Neeraj earned a Master's degree in Computer Science from BITS Pilani (India) and an MBA from UCLA Anderson School of Management.



Dr. Subbu Murthy is CEO of UGovernIT. Dr. Murthy has C-Level expertise in creating and marketing software products. He developed the global delivery models for IT services, SaaS based ERP and CRM systems for claims processing, web-based B2B outsourcing portal, and the first SaaS fuzzy logic system. He developed an On-Demand CIO retainer model to help SMBs get IT strategy expertise at a fraction of the cost of hiring a full-time CIO. He is currently a Consultant CIO at Howard Building, a full service construction company serving clients like Google. Previously he was CIO at Braille Institute, CIO at QTC Management, Inc. and a senior partner at Relsys,. He helped launch this business line with leading medical device makers such as Alcon, Allergan, Baxter, Boston Scientific, and J & J.



Gajinder Singh Vij was born in New Delhi, India, and moved to Ottawa, Canada at a young age. He studied in Canada, earning a Bachelor's of Aerospace Engineering degree from Carleton University. Gajinder came to the US to join Qualcomm in 1997, where he spent the next 18 years in various Engineering, Marketing and Product Management roles. Gajinder also earned an MBA from USC Marshall School of Business. Gajinder joined Intel Corp in 2016 as a Director of Product Management working on Open Source software for the Internet of Things. Gajinder is also a board member of Terranet AB, a Swedish SW company. Gajinder currently lives in San Diego with his wife Kavita and their three children.



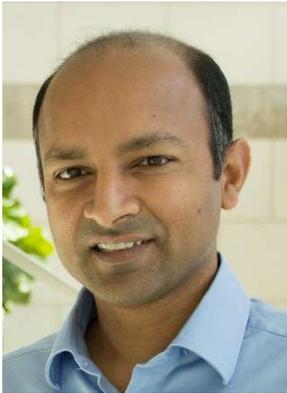
Dr. Sujit Dey is a Professor in the Dept. of Electrical and Computer Engineering, UCSD. He is the Director of the Center for Wireless Communications and the Director of Institute for the Global Entrepreneur at UCSD. He heads the Mobile Systems Design Lab, which is developing innovative technologies in mobile cloud computing, adaptive multimedia and networking, green computing and communications, predictive and prescriptive analytics. Previously, Dr. Dey served as the Director of Von Liebig Entrepreneurism Center and as Chief Scientist, Mobile Networks at Allot Communications. He founded Ortiva Wireless and was its CEO until it was acquired by Allot Communications., He served on the Advisory Board of Zyray Wireless later acquired by Broadcom. He has a Ph.D. in Computer Science from Duke University and has published many papers and holds several patents to his credit and is a fellow of IEEE.



INFORMATION TECHNOLOGY SPEAKERS



Naresh Soni is a mobile industry veteran and is currently CTO at Tsunami VR. He is also a board member at Sierrabolics and advisor to many technology companies. Mr. Soni is also involved in developing human-centric computing and has developed user experiences for various applications and devices. He has also developed rich-media software for mobile uses and is the inventor of several issued and pending patents in the field of computing, wireless coverage, video delivery over wireless, and compression. He was CTO at Interdigital, VP at Nokia and STMicroelectronics, CTO at 5Barz and Streamezzo. He was major technical contributor at IBM and AT&T Bell Labs. Naresh hold MS in Computer Engineering at University of Texas, Austin and has done advanced management at MIT and ST University.



Babu Arunachalam is Vice President, Research at VizExplorer. He has served in a variety of technical and leadership roles at Broadcom, Nokia, Ericsson and Qualcomm. Spanning more than two decades, Babu's experience includes working with embedded systems, mobile phones, wireless protocols, data analysis, data visualization, software configuration management, software development processes, software licensing and software automation. Babu holds a Masters in Computer Science from the University of Southern California, a Bachelors in Electronics and Communications Engineering from National Institute of Technology, Trichy in India, one awarded patent and several applications. He is passionate about STEM education and volunteers as a coach for Science Olympiad and Lego Robotics.



Manish Bhardia has over 19 years of experience in strategic consulting, technical architecture, project management, business process consulting. Manish has architected projects for on premise and cloud environments. Has delivered enterprise solutions with the use of Project Online, Power BI, Office 365, SharePoint and .Net/Microsoft Technologies. Manish has been working with companies like Hyundai, Big hospitals, Toyota and Port of Los Angeles. Manish is a certified Project Management Professional (PMP) and Certified Scrum master (CSM). Key focus areas: SharePoint, Office 365, Dynamics 365, Power BI, Big Data, Secured cloud, Custom solutions and Mobile App Development.



Eugene Chi brings over 20 years of experience and success as a people-oriented, collaborative sales leader in different business segments. In his 12 years with Microsoft, Eugene has held a number of diverse roles and is known for delivering exceptional results and developing his people. Presently, Eugene is the General Manager for the Small, Mid-sized business and Distribution for Microsoft across the West Region of the U.S. Prior to that, he held the role of the District Sales Director in SoCal District and Southwest District, focused on Account Team Unit (ATU) leadership, comprising 5 ATU's / sales teams. Prior to this role, Eugene was managing sales teams for a \$100 million Global Oil & Gas business and a Healthcare team in the Texas, Oklahoma, Louisiana and Arkansas markets. Other roles at Microsoft include Chief of Staff for Enterprise & Partner Group (EPG) Regional Sales Vice President and a Business Productivity Advisor (BPA) Solutions Specialist (SSP) role in SMS&P - Small, Mid-market Solutions & Partners. Previous to Microsoft, Eugene worked in Silicon Valley for 5 years at various software and internet companies including Oracle, where he was Director of Global e-Sales Market Development, Update.Com, a Sales Force Automation/CRM company, Lycos.com, sales positions at GTE (now Verizon) and as a Strategic Business Planner for Walt Disney where he structured multi-million dollar entertainment deals.



EMERGING TRENDS IN ENGINEERING SPEAKERS

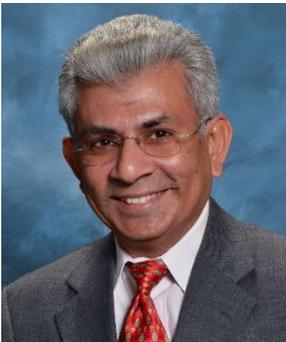
Emerging Trends in Engineering Speakers



Dr. Robert de Groot is the Coordinator for Communication, Education, and Outreach for the ShakeAlert Earthquake Early Warning Program at the U.S. Geological Survey Earthquake Science Center in Pasadena, CA. He also is one of the co-directors of the Quake Catcher Network (QCN) which is a collaborative initiative for developing the world's largest, low-cost strong-motion seismic network by utilizing motion sensors in and attached to internet-connected computers. From 1999 - 2016 he was the Director for Education, Experiential Learning, and Career Advancement at the Southern California Earthquake Center at the University of Southern California. Dr. de Groot holds an M.A. (with distinction) in chemistry and Earth science from Northern Arizona University and a Ph.D. from the University of Southern California. In 2015 he was named a Fellow of the American Chemical Society.



Devang Thakkar is Managing Partner and President of InnoTivum Consulting, North America and Asia. He has over 15 years of global experience in building and launching software products and solutions at Eastman Kodak Company, IBM and Anacomp. His experience includes launching products, including Cloud and SaaS based products with over \$500M revenue potential in verticals such as Finance and Accounting, Electronic Content/Document Management, Media and Entertainment, In-Theatre Advertising, Business Processes Software, and Imaging and Storage Solutions. He is a Fellow of International Software Product Management Association I(SPMA), Entrepreneur-In-Residence (EIR) for Connect Springboard in San Diego and executive committee member of TiE (The Indus Entrepreneur), South Coast. He has Bachelors in Electrical Engineering.



Ram Seshan has more than 30 years of experience in the IT industry with a focus on Enterprise Software, Mobile and web-based technologies. Ram has managed software development in the healthcare, finance, and defense industries. Currently, Mr. Seshan is working on his new venture Chatstasy; an App for the smartphones to enhance communication experience for the elderly. Recently, he was the CTO for TRI-AD Inc., and Santech; a mHealth and behavior-based weight management software provider. Ram received his MBA in Technology Management from University of Phoenix where he was selected to give the commencement address. He also has a MS in Computer Science from California State University, Northridge and a Professional Certificate in Systems Engineering from UC San Diego. He got his Bachelor's Degree in Physics from University of Madras, India.



Dr. Ganesh Raman is Assistant Vice Chancellor for Research in the California State University (CSU) Chancellor's Office. Earlier, he was Deputy Vice-Provost for Research at Illinois Institute of Technology (IIT). He is an expert on aeroacoustics and flow control, wind energy engineering, and energy-efficient building design who has published 150+ articles. He has been elected Fellow in AIAA, ASME, and the Royal Aeronautical Society and has served as Editor of the International Journal of Aeroacoustics for 15 years. Dr. Raman also founded Waveflows, LLC a technology services company that won the 2005 Boeing Technology advancement supplier of the year. Dr. Raman earned a Ph.D. in Mechanical and Aerospace Engineering from Case Western Reserve University and has a B-Tech from the Indian Institute of Technology, Bombay



ASEI Student Mock Interview Mentors



Rakesh Patel, prominent consultant in an Information Technology. Currently working at General Motors in IT Compliance area. Having education in Engineering & telecommunication and Master in Management Technology, Mr. Patel has worked at automotive industries & IT consulting companies. In addition, Mr. Patel has served executive and board member positions at various non-profit organizations. At present, Mr. Patel is serving ASEI organization as a President and advisor for ASEI Michigan chapter.



Jwalant Lakhia currently works for Sirius XM Radio as Senior Manager, OEM Applications Engineering. Mr. Lakhia has over twenty years of experience in design, development, and launch of electronics products for automotive, consumer, marine and aviation industries. Mr. Lakhia has a BS degree in EE from University of Illinois, Urbana-Champaign, MS in EE and MBA degrees from University of Michigan, Dearborn. Mr. Lakhia has been very active with multiple Non-profit organizations and was the Program Director for 2012 and 2015 ASEI National Convention held in Michigan. He served as the President of ASEI Michigan chapter from 2014 to 2015. At present, Mr. Lakhia is part of ASEI National Board and serving as a Director.



Piyush Malik is an entrepreneur, thought leader and leading practitioner in the field of information management with demonstrated expertise in business Intelligence, governance, big data, analytics and cognitive data science. With experience transcending multiple industries, geographies and domains, he is a sought after startup advisor and speaker. He has been serving on the boards of a number of professional and non-profit organizations and is active on twitter @pmalik1 and LinkedIn. An electronics and communications engineer from Delhi University he received his Master's in Technology from IIT Delhi and is the founding President of ASEI Silicon Valley Chapter.



Smita G. Bagla is the Managing Partner of Amritt, Inc., a management consulting firm and TiE SoCal President Elect for 2018. Her new venture, GameRitt, assists corporations in leveraging the power of IoT and Business Intelligence. She has 22+ years of experience and her clients include Toyota, Kaiser Permanente, DIRECTV, Midway Games, Vivendi Universal, Real Time Associates, United Healthcare, Amgen. She is a board member of IIT Alumni Association, South Asian Network and Special Interest group for Media and Graphics (SIGGRAGH LA). She has her Masters in Mathematics and Computer Science from IIT, Kanpur and Roorkee and a MBA from UCLA. She was awarded as the Best South Asian Women Entrepreneur Los Angeles in 2013, has received the West Coast Community Leader award from the IIT Alumni Association of North America.



Rajat Luthra is a Sr. Applications Architect with Twentieth Century Fox Film Corporation. He has over 16 years' experience and his domain expertise includes Digital Asset Management and Post-production media workflows. Rajat has worked for 20th Century Fox, NFL, and Universal Music Group in LA and also has other vertical experience in GIS, Financials etc. He takes pride in his work and his passion helps him to go extra mile to get things done. Rajat has a Masters in Computer Science from Delhi University. When not at work, Rajat enjoys volunteering and weekend getaways with his family.



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