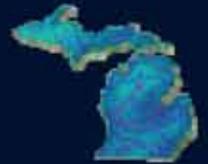




A S E I

American Society of Engineers
of Indian origin - Michigan chapter



30th National Convention

September 19th 2015 - Dearborn MI
Ford Community and Performing Arts Center



Disruptive Innovations and Technologies

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CHEVROLET





Message from National Convention Chairman



“Engineering conventions, where dreams are initiated, invented and socialized”

I am pleased to welcome all of you to ASEI's 30th National Convention in the wonderful City of Dearborn, Michigan. I am honored to serve as the Chairman of today's convention and am grateful to the Michigan Chapter committee for their support and confidence in bestowing me with this distinguished opportunity.

The theme of this convention is “**Disruptive Innovations & Technologies (DIT 2015)**”. New technologies not only change the market but alter life, revitalize businesses and build the economy. The convention this year provides a unique opportunity to bring talented leaders to share their experiences in the field of Engineering and Technology.

In order to provide an outstanding technical level for the presentations at the convention, we have invited several distinguished experts in the Engineering and Technology field. We will have technical sessions and youth technology exhibition showcasing STEM projects by middle and high schools kids. Along with technical speakers we have several distinguished keynote and guest speakers to share their wisdom and experience. The convention will also recognize distinguished professionals and outstanding students with awards that will be presented during the gala banquet in the evening. A Bollywood-themed musical entertainment program will follow traditional Indian dinner. I hope that today's event will provide unparalleled opportunity to learn, exchange information, and network. We are confident that you will take home with you a truly intellectual and socially satisfying experience.

As society's innovation and technology challenges become more critical, we need talented, innovative engineers and scientists to change and improve the world more than ever. To support this foresight, ASEI will present scholarships totaling \$4,000 to outstanding undergraduate and graduate engineering students who have achieved academic excellence.

On behalf of ASEI, I want to extend a heartfelt thanks to our corporate and individual 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, comfortable environment.

This message would be incomplete if I didn't express a word of thanks to my family, all the attendees of the convention and ASEI Michigan Chapter team for their selfless dedication and efforts to make this convention a success. Hope you enjoy the convention.

Best regards,

Rakesh Patel
Chairman – ASEI 30th National Convention



About ASEI

ASEI BACKGROUND

The American Society of Engineers of Indian Origin (ASEI) is an organization of engineers and technical professionals of Indian origin. ASEI was established in 1983 in Michigan, and is a non-profit organization (Tax ID # 38 -2468829). Since its inception in 1983, ASEI has strived to strengthen the Indo-American relationship, institute a channel of communication between technical organizations within the United States and abroad, lend a helping hand to charitable organizations, provide assistance to engineering students at the Local and National levels, and organize networking events.

ASEI Vision

To provide a platform for networking, career advancement, community service, and technology exchange to technical professionals of Indian origin.

ASEI Mission

- Provide career guidance and mentoring to members
- Recognize outstanding engineers, students and entrepreneurs
- Provide scholarships to students
- Host annual national conventions and local chapter networking meetings
- Participate in humanitarian projects
- Promote Indo-American relationship
- Promote technology transfer between India and USA

ASEI Purpose

The purpose of ASEI is to encourage and nurture the next generation of engineers and technical professionals. 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 Principles

- Volunteering
 - Involvement
 - Commitment
 - Fellowship/Mentoring
 - Excellence
 - Leadership
 - Diversity
 - Encouragement
 - Respect
 - Advancement
 - Recognition
-



Message from ASEI Chairman



I am honored to welcome our distinguished speakers, keynote speakers and fellow engineers and scientists to the 30th ASEI Annual National Convention in Detroit, Michigan.

This year's convention theme is "Disruptive Innovations & Technologies." The theme reflects the ASEI vision and commitment to support technology advancements in a field where Indo-Americans are recognized in the world who have made a tremendous impact. The technical papers being presented in this convention illustrates innovations in Technology, Engineering by different Technical Tracks such as Connected Car, Internet of Things (IoT). Youth Technology Exhibition from next generation of Engineers. Our guest speakers are amongst the most recognized leaders from the various corporations, US government organizations, and Academia.

ASEI was founded in 1983. In looking back over the past 32 years, ASEI has come a long way from being a regional organization to the National level with multiple chapters. I take pride in mentioning some of its achievements in various programs, including the following:

- The Corporate Excellence Recognition Program (CERP): This program provides a forum for corporations to recognize their high achievers for their leadership and technical skills. Award categories are: Engineering Excellence, Woman Engineer, Young Engineer, Outstanding Achievement, and Service Excellence.
- Academic Excellence Scholarship Program: ASEI has awarded more than \$150K over the years to engineering undergraduate and graduate students across the US. Additionally this year we introduced scholarships to High School Students to encourage Engineering Education.
- Technical Symposium and Networking: Talks on the latest advancements in various technologies are conducted periodically at all Chapter levels and able to network with others and look for opportunities.
- Mentor Connect: ASEI has tremendous Technical Talent, Management & Leadership Development, and Successful Business Owners who is ready to share their experience to with Fellow Members.
- Cultural Events: Annual events celebrated by ASEI include, Diwali, the Indian festival of lights, and Christmas are held to provide the members, families and guests an opportunity to have fun and network.
- Community Service: ASEI members provide community service in various areas such as mentoring, teaching, planting trees, cleaning the beach, etc.
- Recognition Program: Every year at the convention, ASEI recognizes members in the area of entrepreneurship, engineering excellence, and service to ASEI.

Our board members are leaders that are fired up on growing ASEI through increased collaboration with other engineering organizations, such as PAN-IIT, IEEE, and BITSAA and additionally we are partnering with TiE to collaborate and grow business relations with USA and India to improve the quality of life in India through Technology. We are challenging ourselves to work with top-notch universities and open ASEI student chapters and create a platform for internships, job creation and to establish Corporation to fulfil resource needs in order to bring young engineers to help achieve the ASEI vision.

I am very thankful to the ASEI Michigan chapter for hosting the annual convention in 2015. Under the leadership of Rakesh Patel and Jwalant Lakhia, the convention committee has put together an exciting program for you. I am sure you will enjoy this memorable convention. Thank you for your attendance and support!

Subba Rao Gopavarapu

Chairman, ASEI National Board

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Message from ASEI Michigan Chapter President



On behalf of ASEI Michigan Chapter, it is my privilege to welcome everyone to 30th National Convention in Dearborn, Michigan. It is truly an honor to host this event under the theme of Disruptive Innovations and Technologies – DIT 2015. I am sure all attendees will have an excellent opportunity to experience the Southeast Michigan hospitality during the stay in our area. All team members from ASEI Michigan Chapter look forward to interacting with all participants of this event and provide assistance as needed.

ASEI was founded in Michigan back in 1983. It is really amazing to see 30th National Convention being hosted by the founding chapter. We are really proud for keeping ASEI activities alive for so many years. ASEI's growth and success can be attributed to all past and present committed members, sponsors, and well-wishers. ASEI Michigan chapter has been organizing networking events for last four years. These monthly events have proven to be very effective in providing a forum to learn from subject matter experts on selected topics while networking with peers and colleagues. We are also focusing on next generation of engineers by organizing Youth Technology Exhibition for middle and high school kids. This exhibition is part of DIT 2015 convention. As part of our new initiatives for this year and next year, we are planning on working with college students in our area to start ASEI student chapters on several campuses.

All accomplishments and achievements of ASEI Michigan chapter are only possible because we have a solid team of dedicated, talented and hardworking individuals. I want to thank my ASEI Michigan Chapter team, advisors, and volunteers for all the support they have provided throughout the year. I am also grateful to my wife and kids for being patient with me over last several months. It would not have been possible for me to dedicate time for DIT 2015 planning without their unconditional support. I also want to thank the Convention Team for stepping up and helping with various tasks. ASEI National Board members also have been a great source of guidance. I want to congratulate all ASEI awardees and winners of Student Scholarships at this convention.

Sincerely,

Jwalant Lakhia
President, ASEI - Michigan Chapter



ASEI DIT 2015 Convention Team

Convention Chairman:	Rakesh Patel
National Board Chairman:	Subba Gopavarapu
Host Chapter President:	Jwalant Lakhia
Finance & Sponsorships:	Bhushan Modi, Perry Mehta, Vijay Mahida, Sue Mahida, Prakash Patel, Chirag Shah, Raj Narang, Santosh Tiwari, Anjali Tiwari
ASEI & CERP Awards:	Dr. Thomas Abraham, Rakesh Patel, Vatsala Upadhyay
Scholarships:	Vatsala Upadhyay, Lalita Kambhampati
Speaker Selection & Coordination:	Jwalant Lakhia
Youth Technology Exhibition:	Jesal Shah, Anjali Vale, Chirag Shah
Web Design & Publications:	Sanjay Patel
Convention Emcee	Anu Gopalakrishnan
Audio/Video Technology:	Hari Sarma, Chirag Shah
Marketing & Publicity:	Rakesh Patel, Jwalant Lakhia
Venue Management & Hospitality:	H. B. Singh, Kausik Mitra, Bipin Mistry, Sunanda Mahida, Jesal Shah, Chirag Shah, Kash Prakash
Brochure:	Ashok Rayathatha, Ravi Majmudar, Chirag Shah, Rakesh Patel, Jwalant Lakhia, Sanjay Patel, Shanti Patel (Flash Printing)
Convention Volunteers:	Krishal Dalal, Ashok Rayathatha, Jesal Shah, Bipin Mistry, Bhavesh Joshi
Convention Plaques:	Shama Kenkre, Sami's Engraving & Gifts
Event Photographer:	Suman Raval
Web Promotion:	miindia.com (Anand Kumar)

United States Senate

September 19, 2015

The American Society of Engineers of Indian Origin
Ford Community and Performing Arts Center
15801 Michigan Ave
Dearborn, MI 48126

Dear Friends,

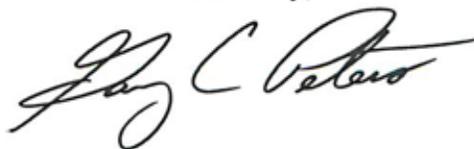
It is my pleasure to welcome you to Michigan for the 30th National Convention of the American Society of Engineers of Indian Origin (ASEI) and to congratulate the ASEI Michigan Chapter for being chosen to host this year's convention.

Founded in 1983, ASEI is an organization of Indian-American professionals focused on sharing information amongst its members, cultivating development of new generations of engineers and STEM professionals, and performing community service to strengthen communities around the world. In fulfillment of its mission, ASEI focuses on opportunities which empower its members to interact and share information, provide mentoring to students and young professionals, promote humanitarian projects and strengthen the partnership between India and the United States. With a strong and active membership, the ASEI Michigan Chapter is engaged in many of these endeavors, which enhance the vibrancy of the Southeast Michigan region and the State of Michigan.

As a region with a deep and diverse pool of engineering and entrepreneurial talent, it is especially exciting to have ASEI's National Convention in Michigan this year. With an expected attendance of over 500 professionals including: scientists, engineers, entrepreneurs, and corporate leaders from across United States, this is a great opportunity for leaders in engineering fields to witness the breakthroughs and innovations which are being developed in Michigan.

Again, I appreciate the opportunity to welcome you to Michigan for the 30th National Convention of the American Society of Engineers of Indian Origin. I wish you a productive convention and look forward to continuing to partner with you as we work to strengthen communities and spur economic growth and development across the State of Michigan and the United States.

Sincerely,



Gary C. Peters
United States Senator

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September 19, 2015



Greetings:

It gives me great pleasure to welcome all in attendance at the American Society of Engineers of Indian Origin (ASEI) 30th National Convention at the Ford Community and Performing Arts Center.

The theme for today's event "DIT: Disruptive Innovations and Technologies" is fitting because it aligns with the central focus of this organization. ASEI accomplishes this by developing and nurturing the next generation of engineers and technical professionals. With over 500 of your colleagues from across the country participating in today's event full of exciting networking opportunities, multiple interactive educational sessions, and innovative business solutions, it is easy to see why ASEI Annual is THE can't miss event of the year.

I am excited that you have chosen Detroit to host your event. We are on the come back, and our resurgence is evident in the new businesses, restaurants and events hosted in our city. During your stay, please take the time to experience Detroit and its history through all of the unique attractions our city has to offer such as the Motown Historical Museum, the Detroit Institute of Arts, the historic Fox Theatre and our international waterfront. I am confident that our returning guest will see the changes and our new visitors will be glad they came.

Again, I welcome you to the ASIE Annual Meeting. I applaud the efforts of the sponsors for their contributions in supporting this event. On behalf of the citizens of Detroit, I want to wish you continued success in all your future endeavors.

Sincerely,

Mike Duggan,
Mayor

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August 25, 2015

MESSAGE

I am happy to learn that the American Society of Engineers of Indian Origin (ASEI) is celebrating its 30th National Convention in Dearborn, Michigan on September 19, 2015.

Over the last 30 years, ASEI has grown from strength to strength to become a multi-tier organization across the United States, providing effective channel of communication among technical organizations within the United States and abroad, providing assistance to engineering students and promoting STEM at various levels of school education. In consonance with its larger objective, this year's Convention has chosen a very pertinent theme of promoting and sharing advancements related to disruptive innovations and technologies. Interactions during the Convention among scientists, engineers, entrepreneurs, academicians, policy makers, bankers, media personalities would go a long way to promote technology and exchange of knowledge.

I extend my warm greetings to all the members of the ASEI and wish them every success in organizing its 30th National Convention.


(Arun K. Singh)
Ambassador of India



A S E I So Cal
 American Society of Engineers of Indian Origin
 Southern California Chapter



**Congratulations!
 ASEI Michigan
 Chapter for a
 successful 2015
 ASEI Convention**

With best compliments from the ASEI So Cal Chapter.

Board of Directors

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- Krishna Nand, Vice President
- Vamsimohan G, Treasurer
- Al Rajput, Secretary
- Gopal Chakraborty
- Vardhman Veeragoudar
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- Srinivas Bhat
- Richa Nand
- Vijay Kotrappa
- Ram Yalamanchilli

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ASEI So Cal 2015 Presentations

- **Autonomous Driving**
- **Comets – Origins of life**
- **Leadership**
- **Communication for Engineers**
- **Orange County Science and Engineering Fair student awards**

Other Topics

Disruptive Technologies
 The conference will also have three presentations by Graduate Students of CSULB. Come and encourage our future engineers.

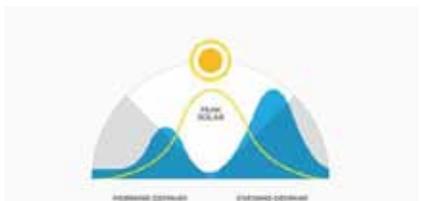
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 Arun Kiri, (909) 524-1452 (ArunKiri@GMail.com)

Dr. Ausaf Sayeed
Consul General
Tel: 312-595-0412
Fax: 312-595-0416
cg@indianconsulate.com



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September 4, 2015

Message

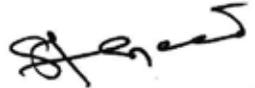
On the momentous occasion of the 30th Annual National Convention of the American Society of Engineers (ASEI) of Indian Origin being hosted by the Michigan Chapter, I would like to convey my warm greetings and best wishes to all members of the ASEI.

ASEI has been serving as an important channel of communication between technical organizations within the United States, promoting useful exchanges and helping in the technology transfer between our two nations.

ASEI's commitment and services to budding engineers, technical professionals and engineering students of Indian origin is, indeed, praiseworthy. By providing career guidance, recognizing outstanding engineers, and giving scholarships to students, ASEI has rendered yeoman's service to the Indian-American engineering fraternity.

I wish ASEI all the success in the Annual Convention on Disruptive Innovations and Technologies (DIT 2015) and other future endeavors.

Jai Hind!


(Dr Ausaf Sayeed)
Consul General of India
Chicago

Best Wishes to ASEI

And to the Host
ASEI-Michigan

on the
30th NATIONAL CONVENTION

September 19, 2015
Dearborn, MI

from
ASEI-National Capital Chapter

*From All the Members and the
Board of Directors*

ASEI-NCC

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Ms Aastha Verma (Vice President)
Robert (Bob) Nathan (Treasurer)
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2015 ASEI – Student Scholarship Winners



Anuj Nimkar
University of Maryland -
College Park
Graduate Scholarship



Krishnesh Pujari
University of Maryland –
College Park
Graduate Scholarship



Yogesh Dalal
Western Michigan
University
Graduate Scholarship



Hemanth Vadlamudi
Western Michigan
University
Graduate Scholarship



Kaval Shah
University of Michigan –
Ann Arbor
Chairman Scholarship
Award



Ravi Patel
Wayne State University
Undergraduate Scholarship

Youth Technology Exhibition

ASEI Michigan chapter has organized first ASEI Youth Technology Exhibition (YTE) for Middle and High School students. This Youth Technology Exhibition is designed to encourage exploration of Science, Technology, Engineering and Math. This Exhibition is part of 30th ASEI National Convention – DIT 2015.

BENEFITS TO PARTICIPANTS:

- Unique opportunity to showcase understanding of STEM to professionals including scientists, engineers, entrepreneurs, and corporate leaders across USA.
- ASEI Plaque and \$25 gift certificate.
- Free admission to DIT 2015 Convention including banquet.
- Special discounted admission to DIT 2015 Convention for parents of participants.

YTE 2015 is featuring following exhibits and participants:

Team #	Exhibition Title	Participants
1	Sprinkler Pressure and Water Conservation	Alankar Shende, Varun Rajesh
2	Lego Robotics	Sejal Patil, Vineet Dongre, Priyal Bajaj, Gautam Bajaj
3	Trends in Visual Effects	Sharva Lakhia, Roshan Chhaya
4	Earthquake Proof Skyscrapers	Sanjana Kumar, Kavina Sheth, Anjali Chiravuri, Roshen Patel
5	Reviving the glory days of Go-Karts	Neel Makkapati, Sache Krishnaraj
6	First Robotics - LEGO League	Team name: Green Mustaches Shalin Lakhia, Rohan Parikh, Vishal Kumaraval, Megan Vu Ria Bhakkad, Vidvath Vasudevan, Sia Modi, Misry Modi Raj Tiller, Alex Chang
7	Automated Plant Watering System	Daniel Berezovsky, Vansh Amin,
8	Water Rocket Technology	Jibraan Rahman, Pranay Shah, Isha Patel

YTE 2015 is sponsored by Mr. Vijay Mahida and Mrs. Sue Mahida.

A man wearing safety glasses and a dark blue t-shirt is working on a large, metallic aircraft component. He is looking up at the component with a focused expression. The background shows a factory setting with various tools and equipment.

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2015 ASEI 30th NATIONAL CONVENTION - MICHIGAN

ASEI DIT 2015 Program Layout

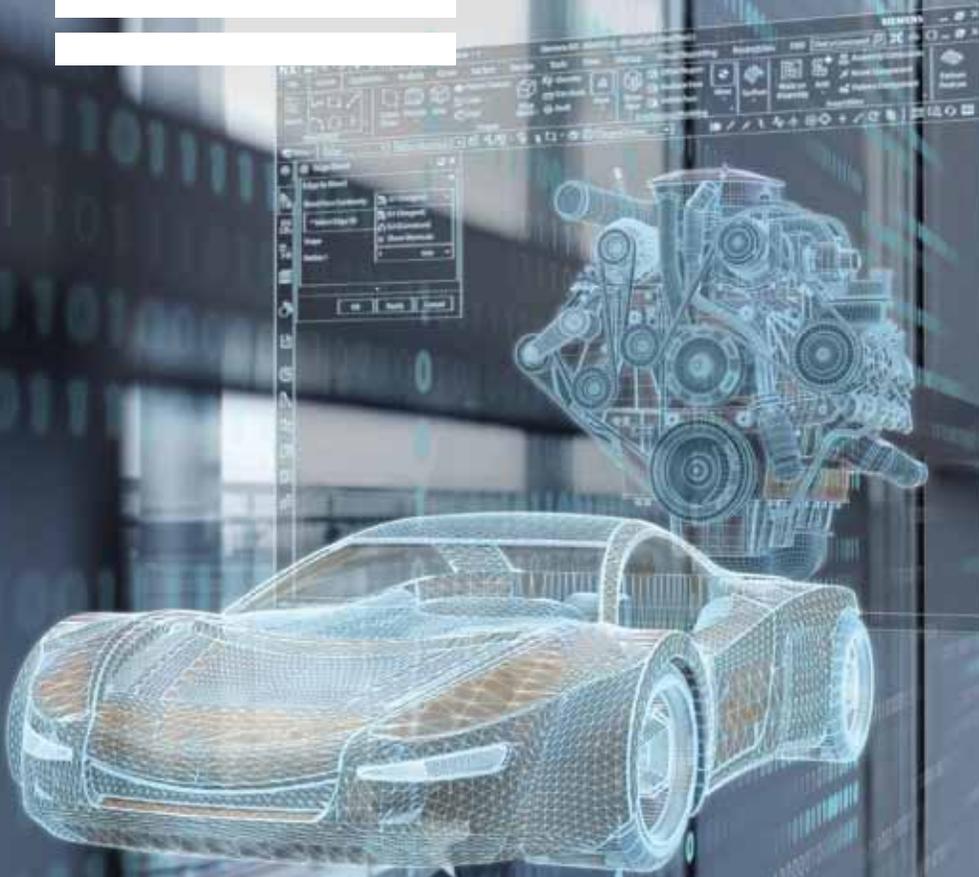
Location: Ford Community & Performing Arts Center, Dearborn, MI

Saturday, September 19, 2015

8:00 am - 8:00 pm	Registration - Lobby	
8:00 am - 9:00 am	Continental Breakfast - Lobby	
9:00 am - 9:30 am	<p>Welcome Address - Convention Chair - Studio A Opening Remarks - ASEI National Chairman Inaugural Address : Isaiah "Ike" McKinnon, Deputy Mayor - Detroit</p>	
9:30 am - 10:05 am	<p>Convergence of Consumers and Cars - Studio A Kashmi Kao, Director Advanced Engineering - Harman International</p>	
10:10 am - 10:45 am	<p>Connected Car - Studio A K. Venkatesh Prasad, Senior Technical Leader - Ford Motor Company</p>	
10:50 am - 11:25 am	<p>Digital Manufacturing 4.0 / Factories of Future - Studio A Nagesh Nidamuluri, Vice President - Tech Mahindra</p>	<p>Internet of Things - Club Room 1 Kameshwar Eranki, Founder & CEO - Vajrasoft, Inc.</p>
11:30 am - 12:50 pm	<p>Lunch - Hubbard Ballroom Student Scholarship Awards Lunch Guest Speakers: Dr. Prabhakar Patil, CEO - LG Chem Ken Cook, Chair and Professor Engineering Technology - Lawrence Technological University</p>	
1:00 pm - 1:35 pm	<p>Innovations in Automation: Robotics, Vision, Motion Control - Studio A Alex Shikany, Director of Market Analysis - Association for Advancing Automation</p>	<p>Advancements in Biomedical Engineering - Club Room 1 Dr. Amar Basu, Associate Professor - Wayne State University</p>
1:40 pm - 2:15 pm	<p>Indian American Engineering Groups- How Effectively We Can Work Together for Common Goals - Club Room 1 Moderated by: Dr. Thomas Abraham, Founder President - GOPIO Foundation</p>	<p>Revolutionizing Product Life Cycle Management - Studio A Jitesh Agrawal, Sr. Director - Siemens PLM Solutions</p>
2:15 pm - 2:30 pm	Break	
2:30 pm - 3:05 pm	<p>Trends and Drivers in Aerospace - Studio A Dr. Shreekant Agrawal, Engineering Manager - Northrop Grumman</p>	
3:10 pm - 3:45 pm	<p>Trends in Automotive Technology - Studio A Deval Desai, Executive Director - Magna International</p>	
3:50 pm - 4:30 pm	<p>Panel Discussion - Studio A Disruptive and Innovative Technologies: Technical & Business Opportunities Dr. Rajiv Shah, Founder and Program Director, Systems Engineering & Management Program, University of Texas - Dallas Dr. Sasi Pillay, CIO - University of Wisconsin</p>	
4:30 pm - 6:00 pm	Youth Technology Exhibition - Hubbard Ballroom	
5:30 pm - 6:30 pm	Appetizers, Networking, Banquet Registration - Lobby	
6:30 pm - 8:30 pm	<p>Banquet / Awards & Recognition / Dinner - Hubbard Ballroom Banquet Keynote Speakers: Senator Gary Peters, United States Senator for Michigan Dr. Virinder Moudgil, President & CEO, Lawrence Technological University Bill Coughlin, President & CEO, Ford Global Technologies</p>	
8:30 pm - 10:30 pm	<p>Entertainment Program - Bollywood Night - Hubbard Ballroom Presented by Sammvad</p>	

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Keynote Speakers



Dr. Virinder K. Moudgil, has served as **President and CEO of Lawrence Technological University** since July 1, 2012. He is overseeing a period of significant growth of LTU's enrollment, fund raising, community outreach, and campus facility improvements, including construction of a third student dormitory to open in 2015 and the Taubman Complex and Marburger STEM Center to open in 2016, which will also house advanced engineering, life sciences, and architecture programs.

President Moudgil's received his education and professional training at institutions including the Harvard Institute for Educational Management and Mayo Clinic, Rochester, Minnesota (Molecular Medicine). He received his M.Sc. and Ph.D. from Banaras Hindu University,

Varanasi, India.

President Moudgil's prior positions include Senior Vice President for Academic Affairs and Provost, Interim Provost, and Provost, Oakland University, Rochester, MI between 2001-12, Visiting Scientist, Boris Kidric Institute of Nuclear Sciences, Vinca, Belgrade, 1988, Visiting Scientist, Univ. of Paris Sud, Bicetre, France, 1983-84, Consultant, United Nations Development Program (TOKTEN), Bombay, India, 1989, Co-Chair, Steering Committee for Development of OUWB School of Medicine.

President Moudgil's board affiliations include the Detroit Regional Chamber of Commerce; Detroit Economic Club; Detroit Athletic Club; Detroit Zoological Society; Thomas Cooley Law School – Professional Advisory Committee; American Red Cross Southeast Michigan Region Executive Board; Skyline Club of Southfield; honorary chairperson, 2013 Multiple Sclerosis Campaign; Association of Independent College and Universities of Michigan; Association of Independent Technological Universities Inc. (AITU); member of the Executive Committee, Japan Center for Michigan Universities (2005-10), and the Michigan Campus Compact.

President Moudgil has a special interest in advancing cultural understanding and globalization. In 2013 he founded LTU's Global Village Project promoting student awareness and cooperation. He has been chair or invited speaker at scientific sessions at international conferences/symposia in China, India, France, Yugoslavia, Canada, Czechoslovakia, the Netherlands, Spain, and Israel.

His awards and honors include the Distinguished Alumnus Award, Banaras Hindu University, 2012; Marian P. Wilson Award, Oakland University, 1986; Oakland University Foundation Research Excellence Award, 1996; Outstanding faculty, Michigan Association of Governing Boards of State Universities, 1997.

President Moudgil's scientific work has appeared in some 250 publications, including nine books, 110 papers or reviews, and 112 abstracts. His areas of research are steroid hormone action, and hormones and cancer. He was a member of the National Institutes of Health Physiological Sciences Study Section 1987-94.



Bill Coughlin is the **President and CEO of Ford Global Technologies**, where he is responsible for all IP matters worldwide for Ford Motor and its subsidiaries. Bill is also a member of the Board of Directors for the Intellectual Property Owners Association and an adjunct professor at Western Michigan University Law School. He is also an inventor and was named Entrepreneur of the Year for 2013 by Michigan's largest business association.

Bill helped launch a pro bono project with the U.S. Patent & Trademark Office to help entrepreneurs and students, out of a desire to see more patents from idealistic people make it to the marketplace.

Somewhere between working on patents for students, helping run an auto-oriented nonprofit and offering intellectual property advice to nonprofits, William Coughlin has a day job.

As president and CEO of Ford Global Technologies and an assistant general counsel with Ford Motor Co., he oversees intellectual property for the Dearborn-based automaker.

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Coughlin helped launch a pro bono program through the U.S. Patent & Trademark Office in Detroit to help low-income inventors get the experienced patent lawyer help they need to protect their inventions.

In addition, Coughlin has helped launch Autoharvest, a nonprofit that serves as a neutral and global online meeting place for innovators with an interest in advanced manufacturing intellectual property.



Elected in 2014, **Senator Gary Peters** is honored to represent the **State of Michigan** in the **U.S. Senate**. Throughout his career in public service, Peters has been a strong, independent voice for Michigan's families and small businesses. He has focused on uniting our communities by fighting for the things that we can all agree on—a stronger local economy, more good paying jobs across our state and a fair chance for everyone to succeed.

In the U.S. Senate, Peters' top priority is to continue supporting job creation and economic growth to strengthen small businesses and our middle class. Senator Peters is committed to working with members of both parties to find commonsense, practical and bipartisan solutions to the challenges facing Michigan and our nation.

Senator Peters went to Alma College where he earned a B.A. in Political Science while working part time to help pay his way. Peters later went on to earn an M.B.A. in

Finance from the University of Detroit Mercy, a law degree from Wayne State University Law School and an M.A. in Philosophy from Michigan State University with a focus in the ethics of development while working a full time job and raising a family.

First elected to the U.S. House of Representatives in 2008 as the future of Michigan's economy was in serious jeopardy, Congressman Peters stood with Michigan workers to ensure the survival of our local auto industry. Today, Michigan's auto industry is roaring back and thousands of new jobs have been created in Michigan.

As a member of the House Financial Services Committee, Peters worked hard to hold the bad actors on Wall Street that caused the recession accountable and played a central role in shaping the toughest financial reform law since the Great Depression. This landmark legislation eliminates future taxpayer funded bailouts, bans the irresponsible behavior on Wall Street that caused the recession and provides commonsense financial protections for regular Americans.

In the 114th Congress, Senator Peters serves on the Senate Commerce, Science and Transportation Committee, Homeland Security and Government Reform Committee, the Committee on Small Business and Entrepreneurship and the Joint Economic Committee.

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Guest Speakers



Prabhakar Patil is **CEO of LG Chem Power Inc. (LGCPI)**, the North American subsidiary of lithium-ion battery-maker, LG Chem (LGC), Korea. In this position, he has overall responsibility for the strategic direction, engineering and business development activities of the business.

Prior to joining LGCPI in 2005, Dr. Patil spent his entire professional career of 27 years at Ford Motor Company in various engineering and management positions. He served as chief engineer for Ford's Hybrid Technologies during 2003 and was also chief engineer for the Ford Escape Hybrid from 1998 to 2003.

Dr. Patil received his undergraduate degree from IIT, Bombay, and his PhD in Aerospace Engineering from The University of Michigan, Ann Arbor. He has 12 patents, published 22 articles and received the Henry Ford Technology Award in 1991 for his work in Electric Vehicle Powertrain Development.



Kenneth J. Cook – Lawrence Tech University is the **Chair of the Department of Engineering Technology in the College of Engineering**. Mr. Cook is a registered professional engineer, a certified clinical engineer, and holds some 30 patents of his own. He holds degrees from or attended DeVry Technical Institute, Lawrence Technological University, Wayne State University, and Oakland University. Cook has many years of experience in engineering, operations management, marketing, and sales. His was most recently executive vice president and chief engineer for Vultron/Trans Industries. His earlier positions included General Manager of R&D in machine tool controls and gauging at GTE-Valenite Corp., started and managed the clinical engineering department at William Beaumont Hospital, Royal Oak, and was a

research associate in radiology, nuclear medicine, and bio-mechanics at Wayne State University. Ken has taught at Lawrence Tech evening programs as an adjunct instructor since 1965. His senior projects class, where students have generated over 450 project ideas, research, designed, manufactured, and assessed the market for inventive products in this capstone course. Cook also has enjoyed a long side career in magic finding his hobby very useful in teaching. A highlight for his students each year is the two-hour magic performance he offers as a congratulatory send-off for them and their guests.



Dr. Rajiv Shah, Managing Partner, Timmaron Capital Advisors and Clinical Professor, Jindal School of Management, UT Dallas, is a nationally-recognized leader in the high-technology sector. As co-founder of Timmaron Capital Advisors, he brings more than twenty years of experience in the telecommunications, computer, semiconductor and laser industries.

He is highly regarded for his expertise in conceptualization, analysis and synthesis of business and technology issues for operations located in North America, Europe and Asia Pacific. He has a proven track record in leading technology and product development, product rollout, process and performance improvement, and implementation into manufacturing.

In 2005 Dr. Shah founded indusLotus Group, which provided high-level consulting to private equity firms and Wall Street bankers. Rajiv has been an external consultant to Goldman Sachs, Vantage Marketplace LLC, and is a Council Member on the Gerson Lehrman Group (GLG). He has also been an external consultant to several other private equity firms – for example, London-based Technology Private Equity arm of Nomura Securities, Silver Lake Partners, Columbus Hill Capital Management, and others.

Dr. Shah served as CTO for Alcatel North America, a \$2B subsidiary of Paris-based, \$15B Alcatel Inc, as VP

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of Research and Network Strategy and was the VP in charge of the Corporate Center for Research & Innovation in the US for four years. He held senior management positions at MCI Worldcom for five years and was at Texas Instruments for seventeen years in various capacities and in various functional areas ranging from R&D to manufacturing to business start-up to business strategy and business development.

Since 2008 Dr. Shah is a Clinical Professor with the School of Management, at the University of Texas at Dallas, and a member of the Institute of Innovation and Entrepreneurship (IIE), and teaches undergraduate and graduate courses in Entrepreneurship, Entrepreneurial Strategy, Corporate Venturing, Entrepreneurial Experience, and Product and Technology Management.

Dr. Shah has an MS and Ph.D. in Electrical Engineering, specializing in Applied Physics, from Rice University, was on the Faculty of the California Institute of Technology (Caltech) as Dr. Chaim Weizmann Post Doctoral Research Fellow, has over 50 publications, and 25 issued patents, and also has an Executive MBA from SMU. He got his B.Sc. in physics, mathematics and statistics from the University of Pune in India.



Dr. Sasi Pillay serves as the **Associate Vice President and Chief Information Officer of the University of Wisconsin System** comprising 26 campuses. In this role, he is responsible for the leadership and guidance for a broad portfolio of enterprise technology operations including broadband networking, major academic and business applications, library automation and adoption of strategic new technologies that will add value to the University of Wisconsin System for instruction, research, learning and public service.

Prior to his current role, he served as the Chief Technology Officer for Information Technology (IT) at National Aeronautical and Space Administration (NASA). In this capacity, he directed how promising technologies are developed, evaluated and integrated into mainstream IT services at the Agency. Previously, he served as the Chief Information Officer at the NASA John H. Glenn Research Center for 15 years.

Dr. Pillay is the recipient of NASA's Exceptional Service Medal and the Outstanding Leadership Medal. He is also the recipient of the Presidential Rank Award recognizing him as a Meritorious Executive in the U.S. federal government. This past year, he was recognized as one of the Federal 100 winners based on his positive impact on NASA and the community. He was also named as one of the top 25 IT leaders in Government citing his technology vision, clout among peers in other agencies, and for the ability to show concrete results. He was recognized as the CIO of the Year by the North East Ohio Software Association in 2008.

Dr. Pillay received his B.S. in Mechanical Engineering from Pennsylvania State University, M.S. and Ph.D. degrees in Computer Engineering from Case Western Reserve University. He also has a Master's degree in Management of Technology from the Sloan School of Management at the Massachusetts Institute of Technology.



Rashmi Rao is currently **Director, Advanced Engineering at Harman Inc.**, responsible to define technology strategy and roadmap in the area of next-gen IN-CAR Infotainment System platform and accountable for the direction and management of the engineering organization. She has over 15+ years of technology and leadership experience and was most recently at Apple Inc., focused on Technology and Strategy for iPhones. Prior to that she was Director of Technology at Tandem Launch Technologies where she was responsible for scouting, accelerating, and commercializing early-stage technologies from the world's top universities for partners at Fortune 50 Technology / Consumer Electronics companies.



Previously she joined Qualcomm as a part of the acquisition of Iridigm and spent 8 years as Technology Lead at spearheading work on the next-generation mirasol color displays, and lead research on developing touch and front-lighting solutions for the reflective mirasol displays. Prior to joining Qualcomm, Rashmi worked at GE Global Research Center in New York where she worked on developing MEMS and nanotechnology-based sensors. Before joining GE, Rashmi worked with Nobel Laureate Dr. Alan MacDiarmid on developing carbon-nanotubes-based sensors. She is a very active member of the Society of Information Display (SID) and currently holds several executive positions on the SID board, She is the author of over 19 US and global patents. Rashmi holds graduate degree in Electrical Engineering from University of Texas and graduate degree certificate from Stanford University.



K. Venkatesh Prasad, group and senior technical leader, Vehicle Design and Infotronics, Ford Research and Innovation is a member of Ford's 12-person global Technology Advisory Board, chaired by the CTO.

Prasad, a Silicon Valley transplant, who openly admitted to knowing little about the automobile when he joined Ford in 1996, is one of the masterminds behind the successful Ford SYNC® in-car connectivity system

As the group and senior technical leader of Vehicle Design and Infotronics for Ford Research and Innovation, the birthplace of Ford SYNC®, K. Venkatesh Prasad is Ford's "What's Next" guy, responsible for the research, architecture, standards, applications development and vehicle system integration of electrical, electronics and embedded software technologies.

Before joining Ford Motor Company in 1996, Prasad worked as a senior scientist at RICOH Innovations in Menlo Park, Calif., developing automatic "lip reading" as a novel human-machine interface. In addition, he was at Caltech and the NASA Jet Propulsion Laboratory in Pasadena, Calif., where he worked on the world's first teleroptic visual surface inspection system to help design the International Space Station.

As Ford's What's Next guy, Prasad in the late 1990s was imagining the vehicle as a software platform where features and services could be beamed in from the outside – without incremental built-in hardware. This was during the time when others were hot to find better ways to build in phones and trunk-mounted six-disc CD changers. That revolutionary mind-set led to the development of Ford SYNC. Software-based, the voice-activated SYNC system allows Ford and Lincoln vehicle owners to seamlessly connect to their cellphone, MP3 players and a host of other features and services in and through their vehicle – hands-free.

For the "What's Next" guy at Ford, the upgradeable SYNC platform is only limited by the imagination and market acceptance of emerging digital connectivity technologies.

Prasad earned a Ph.D. in electrical and computer engineering from Rutgers University in New Brunswick, N.J., in 1990, and a master's degree from Washington State University, Pullman. Before coming to the U.S., in 1984, he obtained engineering degrees from IIT-Madras (1984) and NIT-Trichy (1980)



Nagesh Nidamaluri is currently **Vice President at Tech Mahindra**, and previously Senior Executive General Manager, Mahindra & Mahindra Pvt Ltd, Advanced Manufacturing Staff Engineer General Motors, Liaison Engineer Ford Motor Company and - Captain Indian Army – Corps of Electronics & Mechanical Engineers

Current Assignment: To support all the new initiatives in MOM, MES, Digital Manufacturing & Robotics, Plant Floor Automation and Controls globally while closely lead US Mfg teams, in collaboration with TechM Engineering & IT teams. To define new focus areas in advanced manufacturing, Industrial IOT, Lean Manufacturing and thereby create full-fledged Service offerings in the manufacturing Domain. In addition provide thought leadership to strengthen Tech Mahindra portfolio of services and engineering

Previously at M&M oversaw implementation of manufacturing execution systems (MES), digital manufacturing systems (DM) for automotive manufacturing, plant floor automation / lean manufacturing systems, and the



center of excellence for all general assembly manufacturing and assembly systems. Implemented a fully integrated Quality System with MES for all shops.

A recipient of the GM Boss Kettering Award for Manufacturing Innovation – “COBOTS”; and GM Chairman’s Honors for Future Error Proofing. Holds patents for vision assisted hand tool and door closing systems with GM.

Nagesh is a graduate in engineering from Birla Institute of Technology & Science, India and Indian Military Academy, Dehradun, India He also holds an MS from Oklahoma State University USA.



Kameshwar Eranki is Founder & CEO VajraSoft Inc. of award winning Cloud applications, and driving the growth of Product portfolio. He has over 21 years of Software Product Development and Business Development experience. Kameshwar is responsible for spearheading Intellectual Property (IP) Software development, process improvement, technology adoption and delivering customer value. He is recognized leader in Cloud Computing and as global IP expert.

Kameshwar is experienced in providing innovative IP solutions to the industry and helping customers manage innovations and monetize IP’s. These include IP Assets Strategic Management, PatFolio TM – Global Patent Portfolio Management system, IP Cost-O-Meter TM – automating global IP filing cost estimation, IP Monetizer TM – automating IP

license management and Royalties management, PatenTrak TM – Patent Prosecution Highway Automation and Pintels TM – Patent Intelligence System, Intelligence Analytics on Demand.

Kameshwar holds Master of Science in E-Business Systems and Technologies from Golden Gate University, San Francisco, USA and Master of Science in Electronic Commerce, Golden Gate University, San Francisco.



Alex Shikany is the Director of Market Analysis for the Association for Advancing Automation (A3). In his position, he researches and reports statistics for the robotics, vision, and motion control markets. Alex also develops market opportunity studies and white papers for the automation industry, such as his recent report on end user insights into collaborative robotics. In addition to his research, he frequently gives presentations on automation trends and helps coordinate A3 events. Alex is a graduate of Michigan State University’s Broad MBA program, where he majored in Marketing and Finance. He also graduated with a Bachelor’s degree in Business Administration from MSU. Alex has over five years of experience in both Marketing (Brand Strategy) and Market Research.



Prof. Amar Basu, Associate Professor, Electrical and Biomedical Engineering, Wayne State University, received a BSE and MSE in electrical engineering in 2001 and 2003, an MS in biomedical engineering in 2005, and a Ph.D. in electrical engineering in 2008, all with honors from the University of Michigan Ann Arbor. His dissertation, under Prof. Yogesh Gianchandani, was in the area of microscale fluidic actuation. Amar worked with Intel’s Advanced Technology group, General Motors, Silicon Graphics, and served as an adjunct faculty at the University of Michigan. He joined Wayne State University in 2008, where he is now an associate professor of electrical engineering and biomedical engineering. His research, supported primarily by the National Science Foundation, focuses lab-on-a-chip and microelectronic technologies for medical and environmental monitoring. Amar received the WSU College of Engineering Outstanding

Faculty Award in 2013, the NSF BRIGE award in 2010, IEEE-WSU Professor of the Year (voted by students) in 2009, and a Whitaker Foundation Fellowship in 2003. His research and consulting work have resulted in 8 issued or pending patents.



Jitesh Agrawal is a **Sr. Director of Software Engineering** in Industry group at **Siemens Product Lifecycle Management (PLM)**. He is responsible for creating cross portfolio solutions enabling specific processes within target industries.

In his previous role as Services Director, he was responsible for managing deployment of PLM systems for automotive OEMs focusing on Mechatronics and Bill of Material. He has deep expertise for applying PLM tools to improve automotive software and infotainment development processes including ISO 26262 standard for functional safety.

Overall he has over 20 years of experience spanning development, product management, consulting and marketing across wide portfolio of PLM applications. Earlier in his career he was an associate at Booz Allen Hamilton focusing on IT strategy.

Jitesh has a MBA from University of Michigan's Ross Business school, a MS in Manufacturing Systems Engineering from New Jersey Institute of Technology as a research scholar and a BS in Mechanical Engineering from Maharaja Sayajirao University in Vadodara, India.



Dr. Shreekant Agrawal is currently employed by **Northrop Grumman** as the **engineering manager of Flight Sciences** department. He has over 33 years of aerospace industry experience including 29 years at the Boeing Company, where he had a variety of assignments in functional, program, and technology management. Most recently, he was a technical fellow in the Boeing Research & Technology (BR&T) Flight Sciences organization, managing and working on supersonic low-boom research projects, strategic planning for technology development for future products, and corporate initiatives. He has served as the chief operating officer and director of operations for a joint venture in the Boeing Defense Military Aircraft Division.

His contributions range from developing and applying advanced aerodynamics/computational analysis and design optimization methods for military aircraft, supersonic commercial transport, hypersonic missiles, and space launch vehicles. He has contributed to the development of products such as F/A-18E/F, T-45, Tanker, hypersonic missiles, and several development programs.

He has a Ph.D. degree from the University of Michigan, an M.S. from the University of Maryland, and a B.Tech. from the Indian Institute of Technology, Kharagpur; all in aerospace engineering.



Deval Desai serves as **Executive Director of Strategy and Planning and India Country Manager at Magna International**, a global automotive supplier that designs, develops and manufactures components and systems for the world's leading auto makers. In this position, Desai is responsible for market intelligence and strategic business development of Magna's operating group companies, as well as strategy and planning for India and other developing markets.

Desai is an accomplished engineering professional with more than twenty years of demonstrated success in positions of progressive and diverse responsibility. He specializes in strategic business development and market intelligence to gain market share, launch new products/services and rejuvenate existing lines of business.

Prior to joining Magna, Desai was a Business Development Manager and an engineering lead with North American Lighting, a leading automotive supplier.

A member of the Society of Automotive Engineers, Desai received his bachelor's degree in Mechanical Engineering from the National Institute of Technology Surat (India). He also holds a master's in Mechanical Engineering from Wayne State University, a master's in Management and an MBA in International Business from Walsh College.



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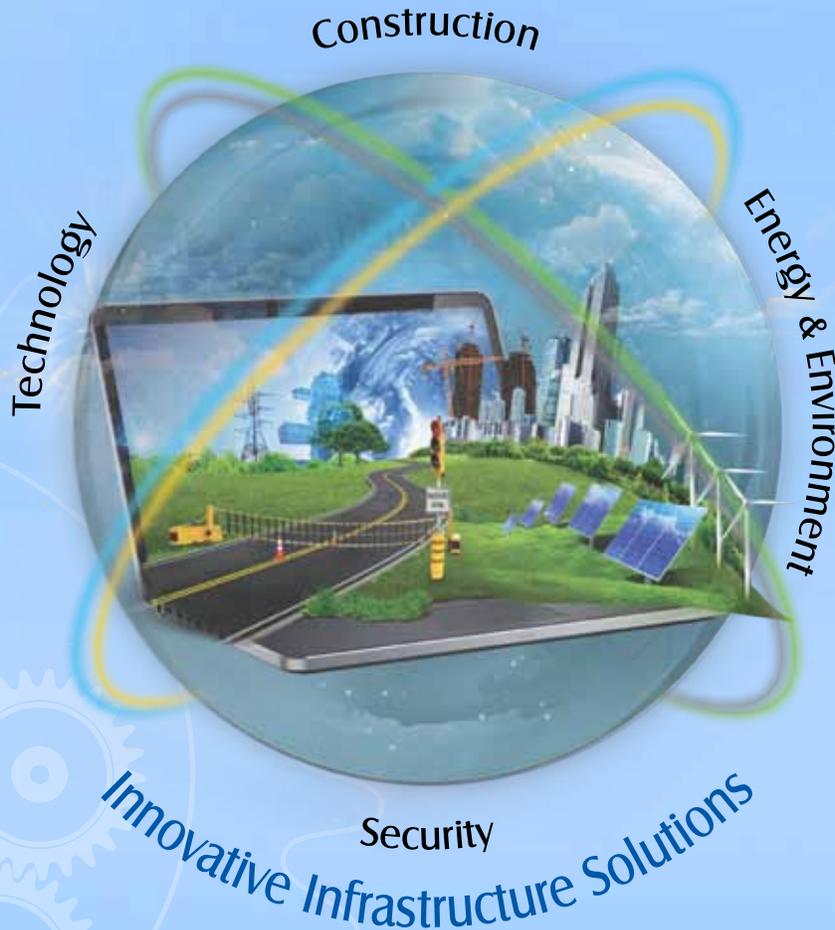
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