



A S E I

American Society of Engineers
of Indian Origin - Michigan Chapter



27th NATIONAL CONVENTION

GET 2012

Green Engineering & Technology

October 6th 2012 - Dearborn, MI

Ford Community and Performing Arts Center

www.ASEIMI.org



IT TURNS ON THE POWER OF GREAT IDEAS.

The world is hungry for the great ideas that will power the future. Boeing is proud to sponsor the American Society of Engineers of Indian Origin and to salute the next generation of engineers and technical professionals.

 **BOEING**



Message from National Convention Chairman



It gives me great pleasure to welcome our fellow members, their families and guests, and distinguished speakers to the ASEI's 27th National Convention in Dearborn, Michigan. I am honored to serve as a 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. This year's theme of **"Green Engineering and Technology (GET 2012)"** pertains to innovation and problem-solving concepts for continuously evolving development of products and processes, which reduce the risk to human health and the environment.

Lately, the media has substantially increased its emphasis on "everything green" due to concerns relating to global climate change, soaring energy prices, and increased government legislation. These concerns are driving new priorities and expectations from consumer products to corporate responsibility and sustainability plans. So, to meet these demands, companies around the world are scrambling to not only create products and technologies that address these concerns, but also change the ways and processes by which they are developed. We as engineers and scientists are leading the charge to address one of the largest challenges our society faces. This is a unique opportunity for us to make a bigger impact on the environment than any government policy.

Technical sessions continue to be the heart of ASEI conventions. Today several scientists, engineers, entrepreneurs, and corporate executives will participate in technical sessions and panel discussions featuring technologists, educators and entrepreneurs, who are leaders in the field of green engineering and technology. Several distinguished keynote and guest speakers will also share their wisdom on the convention theme during the gala banquet in the evening. 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 environmental and energy challenges become more acute, 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 \$5,500 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 Planning Committee to inform, entertain, and provide a networking forum to our guests in a pleasant, comfortable environment.

This letter would be incomplete if I didn't express a word of thanks to all of the members of the Planning Committee for their selfless dedication and efforts to make this convention a success. Hope you enjoy the convention.

Best regards,

Bhushan C. Modi

Bhushan Modi
Chairman – ASEI 27th 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 guests, distinguished speakers, and fellow engineers and scientists to the 27th ASEI Annual National Convention in Dearborn, Michigan.

This year's convention theme is "Green Engineering and Technology (GET 2012)". The theme reflects ASEI vision and commitment to support technology advancements which are much needed to address one of the largest challenges our world faces today. There are concerns about global climate change and soaring energy prices. Engineers must lower the emissions of the products they design and build. They must develop devices that consume less energy and develop viable renewable energy technologies for a greener tomorrow. The technical papers being

presented in this convention illustrates innovations in green automotive design & manufacturing, green information technology, green energy generation & storage, smart grids, etc. 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 29 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 over \$110K over the years to engineering undergraduate and graduate students across the US. Additionally, we have awarded scholarships to students in India via our association with SAE.
- Technical Symposia and Networking: Talks on the latest advancements in various technologies are conducted periodically. For example, in 2008, ASEI organized an International Symposium on Sanitation, focused on technologies for improving the sanitation conditions in the developing countries. Such events provide a forum for professional networking.
- Cultural events: Annual events to celebrate 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 ASEI leaders are fired up on growing ASEI through increased collaboration with other engineering organizations, such as PAN-IIT, TiE, MBIRT, and IEEE. Additionally, we are challenging ourselves to work with top-notch universities and open ASEI student chapters there 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 2012. Under the leadership of Mr. Bhushan Modi, the convention committee has put together an exciting program. I am sure you will enjoy the convention. Thank you for your attendance and support.

Shreekant Agrawal

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 you to 27th National Convention in Dearborn, Michigan. Our team truly appreciates the opportunity for hosting this event under the theme of Green Engineering & Technology (GET 2012). I hope that all participants will have memorable experience while going through various planned activities throughout the day.

ASEI association with Michigan goes back to 1983. That was the year when the concept of ASEI was formed in Detroit. Since then, many engineers and engineering entrepreneurs from Michigan have been contributing towards ASEI's growth and success. The ASEI Michigan chapter is very proud of being the starting point for ASEI organization

twenty nine years ago.

This year ASEI Michigan Chapter activities were reignited with the help from dynamic, aggressive, talented, and committed engineering professionals. Monthly networking events have been taking place throughout various locations in Detroit metro area on last Thursday of the month. The main purpose of these meetings is to generate interest in ASEI while providing a forum for discussion on intellectual yet informative topics. Many experts have presented on topics such as "Green Technologies", "Automotive Innovations", "Mobile Technologies", "Alternative Fuels", and "Entrepreneurship in Engineering" at the networking events. These events have provided excellent opportunities for networking with guest speakers and the attendees.

As we plan our activities for remainder of this year and next year, our priority for the ASEI Michigan Chapter will be to focus on engineering students. We are going to look for opportunities to engage with engineering students in the area colleges by organizing competitions, mentoring programs, educational seminars, and offering scholarships. We are going to work towards providing a platform to engineering students for networking and career growth opportunities. I strongly encourage you to consider being part of ASEI Management team so that you can make positive difference in many different ways.

I want to thank my ASEI Michigan Chapter committee and volunteers for all the support and hard work they have provided throughout the year. I am very grateful for the opportunity to work with a dedicated group of professionals. I also want to thank the Convention Team and ASEI National Board for their guidance and support in hosting this convention. Congratulations to all the ASEI/CERP award and scholarship winners at the convention today.

Sincerely,

Rakesh Patel

Rakesh Patel
President, ASEI - Michigan Chapter



Proclamation

October 6, 2012 is Green Engineering & Technology Day

WHEREAS, ASEI's 27th Annual Convention is focusing on Green Engineering & Technology (GET)

WHEREAS, The American Society of Engineers of Indian Origin (ASEI) - Michigan Chapter, is a non-profit trade association that provides a platform for networking, career advancement, community service, mentoring and technology exchange for professionals, students and businesses in the United States and abroad;

WHEREAS, ASEI's members are guided by several objectives, including the creation of an open, inclusive, and transparent organization; providing positive role models; awarding scholarships; and remaining socially responsible;

WHEREAS, ASEI was founded in 1983 in Detroit, Michigan by a handful of visionaries headed by Mr. Hari Bindal;

WHEREAS, this year's conference is chaired by Mr. Bhushan Modi, ASEI Convention Chairman, and Mr. Rakesh Patel, ASEI Michigan Chapter President;

WHEREAS, the organization also has chapters in Southern California, Ohio, Washington, DC and Florida;

WHEREAS, green innovation is a red hot topic at this time and sustainability is the leading factor in this new forward-thinking economy;

WHEREAS, more than 500 scientists, engineers, entrepreneurs, and corporate leaders from ASEI chapters across the USA will participate in multiple interactive sessions led by leaders in green engineering and technology;

WHEREAS, ASEI will challenge its members to help discover new efficiencies in national air, land and water quality standards, manufacturing and technology;

WHEREAS, the ASEI conference will provide opportunities to focus on ways in which green innovation and technology can impact everything from education and infrastructure to health care and advanced manufacturing;

WHEREAS, ASEI understands that green engineering and technology are the drivers of the new green economy;

THEREFORE, I, **Dave Bing, Mayor of the City of Detroit**, on behalf of its citizens, do hereby proclaim October 5 as

Green Engineering & Technology Day

in the City of Detroit, and encourage citizens to attend this event to learn about the many ways green engineering will change our lives and contribute to our economic growth and stability.



CITY OF DEARBORN

Home Town of Henry Ford

MAYOR JOHN B. O'REILLY, JR.

October 5, 2012

Dear Friends:

As Mayor of the City of Dearborn, it is my pleasure to welcome you back to the home town of Henry Ford. I am confident you will once again experience the warm welcome extended to all of our guests, beginning with that shown to you at our magnificent city facility, the Ford Community and Performing Arts Center.

Thank you for selecting Dearborn as host city for your 27th ASEI National Convention. This signature event, with its focus on Green Engineering and Technology, promises to be a great gathering of your members.



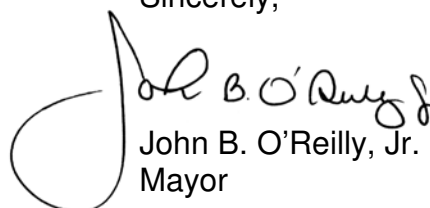
Congratulations on the many accomplishments of the American Society of Engineers of Indian Origin and your goals to provide opportunity, guidance and recognition to outstanding engineers, students and entrepreneurs, while at the same time promoting community service, Indo-American relationships and technology sharing between India and the United States.

As the world headquarters for the Ford Motor Company, Dearborn is the ideal community to appeal to the inventiveness of engineers. While you are in our community I hope you will have time to experience the hospitality for which our city is known. Your visit will be enhanced by our fine restaurants, which offer gourmet, ethnic and family style dining opportunities; and our famous attractions, such as The Henry Ford: America's Greatest History Attraction, and the Arab American National Museum.

For shopping, we offer many options, from the 200-store Fairlane Town Center to the appealing shops in our downtown business districts, including retailers that sell merchandise with an international flavor.

We're proud to have you in our community. Best wishes for a successful event, and I encourage each of you to return to Dearborn soon.

Sincerely,


John B. O'Reilly, Jr.
Mayor



ASEI Convention Team

| | |
|--|---|
| Convention Chairman: | Bhushan Modi |
| Convention Vice Chairman: | Rakesh Patel, President – ASEI Michigan Chapter |
| National Board Chairman: | Shreekant Agrawal |
| Finance & Sponsorships: | Perry Mehta, Vijay Mahida, Bhushan Modi, Rakesh Patel, Chirag Shah |
| ASEI & CERP Awards: | Paul Sikand, Shreekant Agrawal, Bhushan Modi, Mahesh Reddy, Hira Fotedar |
| Scholarships: | Hari Bindal, Ranga Devulapally, Jesal Shah |
| Speaker Selection & Coordination: | Jwalant Lakhia, Paul Sikand, Ajay Kothari |
| Web Design & Publications: | Kuldip Bhatt, FutureNet Group - India Team |
| Marketing & Publicity: | Srini Laxman, Prasad Gullapalli, Amrutha Sakaray, Meghana Murali, Kash Prakash, Rakesh Katragadda, Kuldip Bhatt (Sammvad Music & Media Services), Renee Prewitt (Prewitt Group) |
| Venue Management & Hospitality: | H. B. Singh, Bipin Mistry, Ranga Devulapally, Sunanda Mahida, Jesal Shah, Chirag Shah, Srini Laxman, Prasad Gullapalli, Amrutha Sakaray, Meghana Murali, Sandy Patel |
| Brochure: | Ashok Rayathatha, Sandy Patel, Jwalant Lakhia, Shanti Patel (Flash Printing) |
| Event Photographer: | Suman Raval |
| Radio Promotion: | Geetmala (Narendra Sheth), Gitanjali (Subhash Kelkar) |
| Web Promotion: | miindia.com (Anand Kumar), migujuarat.com (Sammvad Media), mibihar.com (Rachana Kumar), dhartionline.com (Saleem Siddique) |
| Endorsing Sponsors: | Automation Alley, Engineering Society of Detroit (ESD), Asian Indian Women Association (AIWA), Asian Pacific American Chamber of Commerce (APACC), Ford Asian Indian Association (FAIA), Indo-American Chamber of Commerce (IACC), India League of America (ILA) |



2012 ASEI – Michigan Chapter Committee



Rakesh Patel
President



Chirag Shah
Treasurer



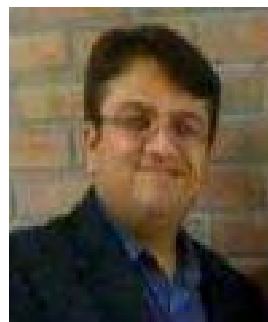
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Dr. Shreekant Agrawal



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Mr. Perry Mehta



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Mr. Krish Krishnamurthy



Secretary
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2012 ASEI – National Board



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Director
Mr. Kash Prakash



Director
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Mr. G.S. Sridhar



Director
Mr. Vijay Trehan

ASEI – MI Chapter

Congratulates



Dr. Vijay Mahida

for

2012 ASEI President's Award

Best Wishes and Congratulations

to ASEI Michigan Chapter for Hosting

The ASEI 2012 National Convention

From

The Founder of ASEI



Mr. Hari B. Bindal



ASEI AWARDS

ASEI recognizes its membership by offering a variety of awards. Today ASEI will be recognizing outstanding achievers in the following three categories:

ASEI Excellence Award

This award is presented to an engineering professional of Indian origin with exceptional contribution to the cause of engineering science and businesses. The applicant is judged against four criteria - professional achievement, service to the profession, service to ASEI organization and service to the community.

- a. ASEI Engineer of the Year
- b. ASEI Entrepreneur of the Year
- c. ASEI Service Excellence of the Year

ASEI Lifetime Achievement Award

This award is presented to an individual who has 1) been a member of ASEI for at least 10 years, 2) served and participated in various capacities in the activities of local and national chapters, and 3) contributed significantly to promote the vision and goals of the ASEI organization. This candidate is selected by the recommendation of the Award Committee and approval by the Chairman of the ASEI National Board.

ASEI Corporate Excellence Recognition Program (CERP)

Developed in 2005, the CERP awards resulted from the collaboration of ASEI and top corporations within United States. The vision of CERP is to salute the innovative strength that comes from a diversity of human capital. This award recognizes corporate excellence of outstanding engineers of Indian origin who are employed in industry, academia or government entities. Candidates are nominated by their managers and approved by their Human Resources department. The CERP awards are presented for five categories as follows:

1. Corporate Engineering Excellence Award
2. Corporate Woman Engineer of the Year Award
3. Corporate Young Engineer of the Year Award
4. Corporate Outstanding Achievement Award
5. Corporate Service Excellence Award

The CERP awards criteria are based on achievements, innovation, leadership, teamwork, integrity, community service, and leadership roles in professional societies.



2012 ASEI EXCELLENCE AWARDS

Lifetime Achievement Award



Mr. Perry Mehta
President
FutureNet Group, Inc.

Service Excellence Award



Mr. Subba Rao Gopavarapu
President
GSR Technologies, Inc.

Entrepreneur of the Year Award



Mr. Ganapati S. Sridhar
President
Spinovation Corporation

Engineer of the Year Award



Dr. Anita Sengupta
Senior Systems Engineer
NASA/JPL

WITH BEST WISHES AND COMPLIMENTS

For the

27TH ASEI NATIONAL ANNUAL CONVENTION

From

ASEI SoCal Chapter

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



2012 ASEI – CERP AWARDS

Outstanding Achievement



Dr. Parthasarathy Ramanujam
The Boeing Company

Woman Engineer of the Year



Ms. Subashini Iyer
The Boeing Company

Engineering Excellence



Mr. Hitesh Bhadrecha
The Boeing Company

Service Excellence



Mr. Kupp Sridhar
The Boeing Company

Outstanding Achievement



Dr. Narottam Bansal
NASA

Engineering Excellence



Mr. Debashis Sadhukhan
NASA

Outstanding Achievement



Mr. Mukesh Patel
FutureNet Group, Inc.

Engineering Excellence



Mr. Prafulla Pande
FutureNet Group, Inc.

Service Excellence



Mr. Krishal Dalal
FutureNet Group, Inc.

Young Engineer of the Year



Mr. Kamlesh Patel
FutureNet Group, Inc.



Michigan Association of Physicians of Indian Origin (MAPI)

Non-Profit Organization (IRS Tax Exemption #38-2137329)*

28230 Orchard Lake Road, Suite 203 • Farmington Hills, MI 48334

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CONGRATULATIONS

To

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Michigan Chapter

On Hosting

The 27th Annual Convention

Without engineers, medicine will not progress

MAPI Executive Board 2012

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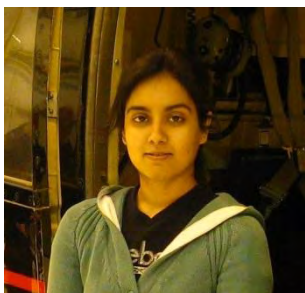
Swarn Rajpal, MD
Secretary

Sunil Rao, MD
Treasurer

* Contributions and gifts are not deductible as charitable contributions.



2012 ASEI – Scholarship Winners



Ria Malhan
Kalpana Chawla Graduate
Scholarship



Abhejit Rajagopal
Graduate Scholarship



Mayur Kathuria
Graduate Scholarship



Manish Karani
Graduate Scholarship



Rahul Bangera
Graduate Scholarship



Letty Thottathil
Undergraduate Scholarship

Sonam Lal – Undergraduate Scholarship (No Picture Provided)

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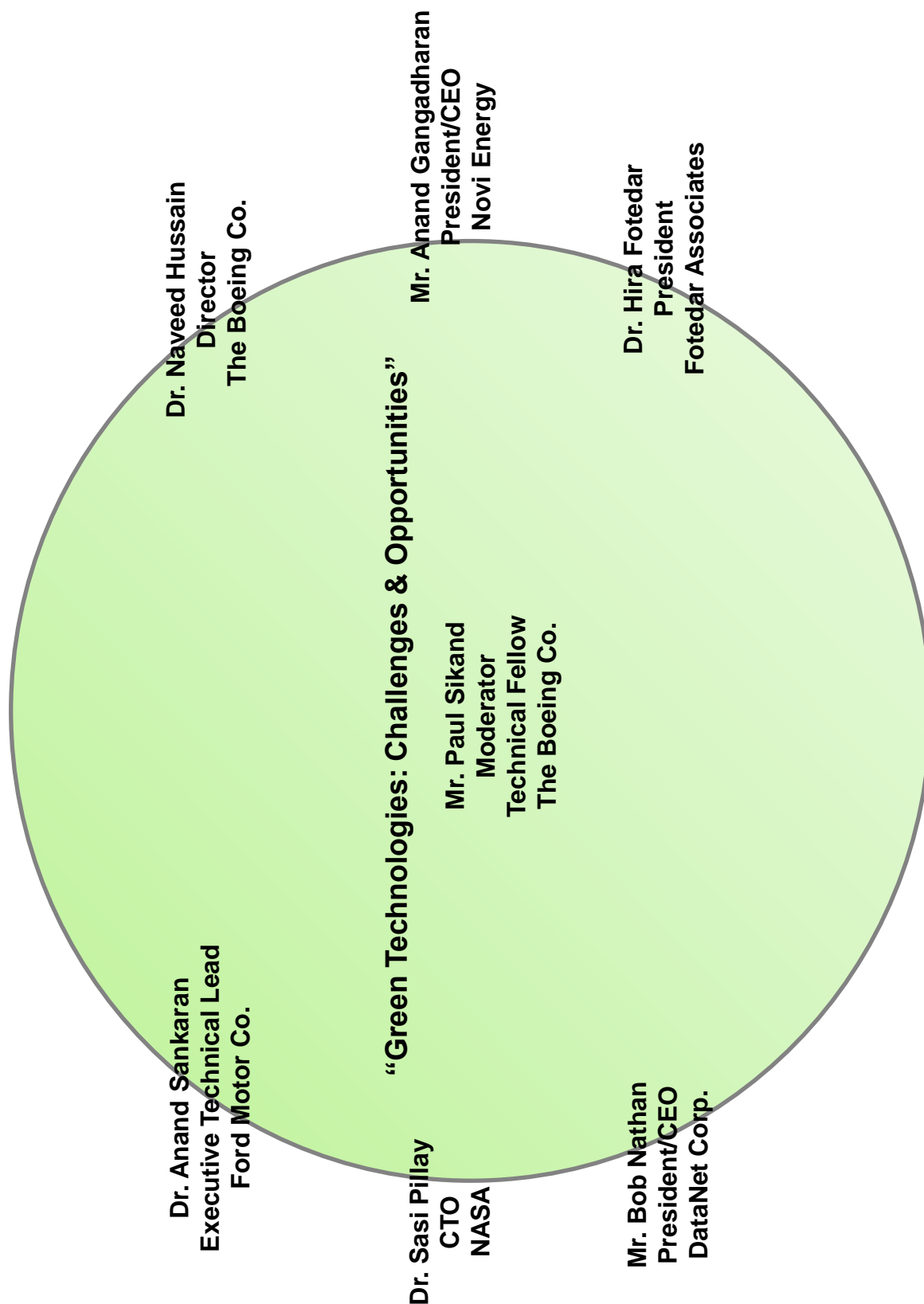
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ASEI Convention Panel Discussion



ASEI GET 2012 Program Layout

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

Saturday, October 6, 2012

| | |
|---------------------|--|
| 8:00 am – 8:00 pm | Registration |
| 8:00 am – 9:00 am | Continental Breakfast |
| 9:00 am – 9:30 am | Welcome Address – Convention Chair Opening Remarks – ASEI National President Inaugural Address |
| 9:30 am – 10:05 am | Entrepreneurship in Green Technologies Presented by: Ken Cook, Professor, Lawrence Tech University |
| 10:10 am – 10:45 am | Green Automotive Design & Manufacturing Presented by: Dr. Suresh Bansal, Hybrid Vehicle Technology Center |
| 10:50 am – 11:25 am | Green IT Presented by: Charles Dodd, Deputy Director-ITS, City of Detroit |
| 11:30 am – 12:30 pm | Lunch Student Scholarship Awards Lunch Guest Speaker: Dr. Anita Sengupta, Senior System Engineer – NASA/JPL |
| 12:30 pm – 1:05 pm | Cloud Computing Presented by: Dr. Bharat Maheshwari, Odette School of Business at Windsor University |
| 1:10 pm – 1:45 pm | Innovation In Home and Office Energy Consumption Presented by: Manish Rukadikar, Manager – Marketing – DTE Energy |
| 1:50 pm – 2:25 pm | Advancement in Automotive Infotainment Systems Presented by: Rahul Misra, Director – Automotive Sales – Harman International |
| 2:30 pm – 3:05 pm | Sustainable Energy Efficient Home: Reality is now Presented by: Dr. Gajanan Sabnis, Emeritus Professor – Howard University |
| 3:05 pm – 3:20 pm | Networking Break |
| 3:20 pm – 3:55 pm | Digital Marketing Presented by: Nipa Shah, President – Jenesys Group |
| 4:00 pm – 4:30 pm | Significance of Patents and Copyright in Product Lifecycle Management Presented by: Sangeeta Shah & Andrew Turner, Brooks-Kushman Law Firm |
| 4:30 pm – 4:45 pm | Networking Break |
| 4:45 pm – 5:30 pm | Panel Discussion: Green Technologies: Technical & Business Opportunities Moderator: Paul Sikand – Technical Fellow, Boeing Panel Guest Speakers: Dr. Sasi Pillay , CTO – NASA Dr. Naveed Hussein, Director – Boeing Anand Gangadharan – President, Novi Energy Bob Nathan, President – Maryland India Business Round Table Anand Sankaran – Executive Technical Leader, Ford Dr. Hira Fotedar – President, Fotedar Associates |
| 5:30 pm – 6:30 pm | Appetizers, Networking, Banquet Registration |
| 6:30 pm – 8:30 pm | Banquet / Keynote Speakers/ Awards & Recognition Dinner Keynote Speakers: Ravi Saligram, CEO - OfficeMax Mahesh Reddy, Director & Program Manager – Boeing Anand Gangadharan, President – Novi Energy Nand Kochhar, Chief Engineer & Executive Technical Leader – Ford Perry Mehta, President & CEO – FutureNet Group |
| 8:30 pm – 11:00 pm | Dinner / Entertainment Program – Bollywood Night |

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KEYNOTE SPEAKER



Mr. Ravi Saligram joined OfficeMax as president and chief executive officer in November 2010. At that time, he also became a member of the OfficeMax Board of Directors. With strong global experience in growing businesses and brands, Mr. Saligram is driving a business transformation at OfficeMax and fundamentally evolving its brand positioning from an office products supplier to a multichannel provider of workplace products, services and solutions. He guides a team of 29,000 associates committed to understanding and delighting the customer, and innovating to fulfill their unmet needs.

Prior to joining OfficeMax, Mr. Saligram served as president of Aramark International; and executive vice president and chief globalization officer of Aramark Corporation. Prior to Aramark, Mr. Saligram held senior leadership positions with InterContinental Hotels Group, including president of Brands & Franchise for North America, chief marketing officer, and President, Asia Pacific; and held brand and general management roles within S.C. Johnson and Son Inc. He began his career in advertising with Leo Burnett Company in Chicago.

Mr. Saligram is currently a board member of Church & Dwight (NYSE: CHD), a consumer and specialty products company with leading brands such as Arm & Hammer and OxiClean. He is a trustee for the Eisenhower Fellowships and also formerly served as a board member and vice chairman of the World Affairs Council of Philadelphia. In 2010, Mr. Saligram received the 2010 British American Business Council (BABC) of Greater Philadelphia "Building a Better Future" award for his role in helping Aramark to become one of the UK's largest employers. Mr. Saligram earned a bachelor of science degree in Electrical Engineering from Bangalore University in India and holds a Master of Business Administration degree from the University of Michigan.

GUEST SPEAKERS



Mr. Anand Gangadharan is the President of NOVI Energy. Mr. Gangadharan has nurtured NOVI Energy from its inception in 2002 into an organization with sustained growth while maintaining integrity and quality of work. Through his leadership, NOVI Energy has achieved recognition within the energy industry with national and international customers in the industrial, commercial, institutional, utility and government sectors. Mr. Gangadharan was instrumental in establishing long standing relationships with U.S. Federal Agencies, U.S. National Laboratories, the World Bank as well as electricity boards and utilities of various countries.

At NOVI Energy, Mr. Gangadharan continues to provide guidance and leads various development efforts that range from traditional power generation facilities, renewable and alternative energy projects, central utility plants, district heating and cooling projects and micro grids to customized state-of-the-art energy technology applications for end-user benefit. He earned both his Bachelors and Master of Science Degrees in Physics from The University of Madras in India and his second Master's Degree in Nuclear Engineering from Texas A&M University.

Mr. Gangadharan has over twenty years of professional experience in management capacities at CMS Energy, Consumers Energy, PacifiCorp and NOVI Energy. His experience includes development of one of America's leading wood-fueled independent power plants currently under construction, the Halifax County Biomass facility in Virginia. Mr. Gangadharan also successfully developed the nation's first utility scale biogas based power project derived from food processing industry wastes, the Fremont Community Digester, currently under construction in Fremont, Michigan. He provided executive leadership to the Governments of Serbia, Sri Lanka, Gambia and Uganda on consulting studies to develop and improve their energy sectors. Mr. Gangadharan provides guidance on NOVI's development activities and serves as lead negotiator for power purchase agreements, fuel supply contracts, and project financing terms.

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GUEST SPEAKERS



Mr. Nand Kochhar is Executive Technical Leader, Global CAE and Chief Engineer, Global Materials Engineering & Standards, Ford Motor Company.

Prior to his current position, Nand has held several positions of increasing management responsibility Globally, including Chief Engineer, Core Vehicle Engineering, Chief Engineer, Vehicle Attributes & CAE, Vehicle Engineering Manager on F-Series Super duty Truck, Chassis Design & Release Manager of award-winning Car (Mondeo) in Europe. Nand has held several Supervisory and Technical Specialist positions in Product Development.



Mr. Perry Mehta is an accomplished professional with over 27 years of experience in the implementation and execution of construction, civil/environmental engineering, technology and perimeter security solutions. He started FutureNet Group, Inc. in 1994, an environmental, construction, technology, and perimeter security company. Today, FNG has more than 100 employees amongst five offices in the United States, and two international offices.

Since 2001, he is actively involved with the American Society of Engineers of Indian Origin (ASEI), a national organization of engineers and professionals whose objectives are networking, career guidance, technology transfer, business guidance, and promoting India's image. He has been Michigan Chapter President, President and Vice Chairman of the National Board.

He has won several awards from multiple organizations and committees due to his leadership, commitment to the community and his entrepreneurial spirit. A few awards from the long list include the SBA Region V Minority Small Business of the Year from the White House (2010), *Corp!* Magazine Entrepreneur of Distinction, Fast 50 Asian American Businesses (2012), and an outstanding 50 Asian American in Business. His company was recognized as one of Michigan's 50 Companies to Watch, one of the ICIC's Fastest Growing Inner City Companies for four years, and SBA Region 9-MI SBTDC Best Small Business.

Mr. Mehta is the founder of Solar Water Energy, LLC a company that utilizes U.S. patented technology to convert saline water into fresh water using solar energy. The company holds two U.S. patents and has recently implemented the world's first solar desalination project in India.

Mr. Mehta holds a Bachelor of Science in Civil Engineering and a Master of Science in Environmental Engineering. He and his wife, Dipika, live in Michigan with their two sons, Sahil and Sagar.



Mr. Mahesh Reddy is currently the Director and Program Manager for the C-130 Avionics Modernization Program (AMP); a multi-billion dollar System Design & Development and Production Program (ACAT-1D). He is responsible for meeting or exceeding both existing capabilities as well as current contract requirements for performance and safety as well as lowering the Total Ownership Cost (TOC) for the C-130 fleet. Mahesh also led the weapons system integration for the B-1 and B-2 Bomber Programs (two critical war fighter long range strike assets and lethal nodes on the battlefield).

Prior to this assignment, he was the Deputy Program Manager and Chief Engineer for the Joint Tactical Radio Systems (JTRS) Ground Mobile Radio (GMR) program; a multi-billion dollar program with over 1,000 employees. He was also the Chief Engineer for Army and Missile Defense Business Units, the regional leader for the Boeing Company's Phantom Works (PW)

Division in Southern California, and led the Integrated Defense System' Huntington Beach / Seal Beach Functional Engineering Organization where he was responsible for ensuring engineering technical excellence, applying common tools and processes, and building a solid management and workforce infrastructure.

He holds four patents and several invention disclosure filings in the field of fiber optic sensors & wireless technology. Mahesh earned a B.S. (Honors) degree in Electronics and Communication Engineering from the University of London and a M.S. in Electrical Engineering from Virginia Tech. In addition, he graduated from the University of California, Irvine's executive management development program. Additionally, he serves on the Board of Directors for the Boeing Southern California Fitness, Inc (Non Profit) and on the Advisory Board for the American Society of Engineers of Indian Origin (ASEI). Mahesh and his wife Sumathi have two children; Nikhita and Anish.

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TECHNICAL SPEAKERS



Dr. Suresh Bansal is founder of the Hybrid Electric Vehicle Technology Center. He is actively pursuing Hybrid Electric Vehicle Technology (HEV) Research, Consulting and Professional Development, delivering several courses related to major vehicle systems and subsystems.

He served as College Professor and Director of the Master of Science in Automotive Engineering Program at Lawrence Technological University (LTU) for (12) years. He was a keynote speaker at 2006 IEEE Conference on HEV Applications for Civilian and Military Vehicles.

He has extensive knowledge in Hybrid Electric Vehicle (HEV) Technology. He has delivered in-depth Professional Development Courses on HEV Systems, HEV Batteries, Vehicle Systems and Dynamics, Vehicle Propulsion Systems (Transmissions, Axles and Drivelines), and Vehicle Thermal Management Systems etc. to Automotive Industry and US Military Engineers at Tank Automotive Research and Development Engineering Center (TARDEC) in Warren, MI. He also has extensive team of Subject Matter Experts covering all other technologies for HEV applications including Engine Technology with Gasoline, Diesel and Alternative Fuels, Transmission and Drive-line Technology, Electric Motors and Generators for Electric Drive, Power Electronics, Control Systems, Regenerative Braking, Heating and Air-Conditioning System Technology etc.



Mr. Ken Cook 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 28 patents of his own. He holds degrees from or attended DeVry Technical Institute, Lawrence Technological University, Wayne State University, and Oakland University. Ken has many years of experience in engineering, management, entrepreneurship, marketing and sales. He was executive vice president and chief engineer for Vultron/Trans Industries. Mr. Cook has taught at Lawrence Tech evening programs as an adjunct instructor since 1965.

Ken's entrepreneurial-focused senior projects class is the capstone course where students generate project ideas, research, design, manufacture, and assess the market for inventive products. He also has enjoyed a long side career in magic finding his hobby very useful in teaching. A highlight for his senior projects' students each year is the two-hour magic performance he offers as a congratulatory send-off for them and their guests.



Mr. Charles "Chuck" Dodd serves as the Director of Information Technology Services (ITS) for the City of Detroit. In this role, he provides efficient strategic planning, system design and management, security and business continuity of the City's technology resources. Mr. Dodd's key accomplishments include the creation of tactical (2 year) and strategic (5 year) plans, policies and procedures to identify long-term IT needs and infrastructure for the City of Detroit. Under his leadership, the department has developed and implemented an IT governance and security steering committee to streamline and standardize key processes and policies with the goal to improve internal operations, reduce cost, and consolidate services.

He holds a Bachelors of Business Administration (BBA) from Howard University and a Master of Business Administration (MBA). Chuck Dodd is Chairman for the Detroit Wireless Technology Review Site Committee and is also a member of the Michigan Black Caucus, CIO Government Think Tank and The Omega Psi Phi Fraternity, Inc.



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TECHNICAL SPEAKERS



Dr. Bharat Maheswari holds a Ph.D. specializing in technology and operations management from Carleton University, Bharat also holds an MBA degree from Carleton University and a bachelor's degree in Mechanical Engineering from the National Institute of Technology, Jaipur, India. He has over sixteen years of industry and academic work experience in the areas of Technology, and Operations Management. Bharat's research has appeared in more than 40 peer reviewed articles in several top journals, edited book chapters, and conference proceedings.

His research interests include: Academic Reviewer and Program Chair, Technology and Innovation Management Division, Administrative Science Association of Canada and Bharat holds a Ph.D. in Management.



Mr. Rahul Misra has 18 years of experience in the automotive and wireless Industry where he has held leadership positions for Ernst & Young Management Consulting, VW/Audi Group, and Deutsche Telekom. For Audi of America, Mr. Misra was responsible for their infotainment portfolio where he successfully launched and managed their telematics, satellite radio, navigation, advanced safety systems, and Bluetooth Handsfree products across all vehicle lines.

Mr. Misra is currently Director Automotive Sales & Engineering for Aha Radio by Harman, and is responsible for business development and program management for North American OEMs and Importers. The Aha Radio platform is an automotive grade, cloud-based platform specifically focused on solving the challenges of bringing the broad spectrum of rich Internet infotainment content safely into the Vehicle. Mr. Misra is a member in good standing of the Society of Automotive Engineers and the Society of Automotive Analysts.



Mr. Manish Rukadikar is the Manager of the Energy Efficiency team at DTE Energy Company (NYSE:DTE), a Detroit, Michigan based diversified energy company involved in the development and management of energy-related businesses and services nationwide. DTE Energy's largest operating subsidiaries are Detroit Edison and MichCon. Together, these regulated utility companies provide electric and/or gas services to more than three million residential, business and industrial customers throughout Michigan.

Manish is responsible for leading the marketing outreach effort for DTE Energy's energy efficiency education and awareness program. The goal of the education and awareness program is to raise customer awareness and satisfaction of DTE Energy's energy efficiency efforts and to help customers save money on energy bills.

Manish joined DTE Energy in 2009. Prior to his current position, Manish was a Senior Strategist in DTE Energy's Strategy and Special Projects Group. In this capacity, Manish led several cross-functional internal consulting engagements for Detroit Edison's senior management and was responsible for strategic planning activity for Detroit Edison.

Manish has a BS in Mechanical Engineering from Walchand College of Engineering in Sangli, India, an MS in Mechanical Engineering from the University of Toledo in Toledo, Ohio and an MBA from the Stephen M. Ross School of Business, University of Michigan in Ann Arbor, Michigan.

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TECHNICAL SPEAKERS



Dr. Gajanan M. Sabnis, PE earned his undergraduate and graduate degrees in civil engineering in India and his PhD at Cornell University. He is registered professional engineer in several States.

His career represents his excellence in several fields; his post-doctoral work at University of Pennsylvania to demonstrate the effect of holes in the concrete slab near column heads; his research work with cement and concrete at American Cement Corporation; his industrial and professional work in Bechtel to work on two nuclear power plants; and finally, as academician and researcher at Howard University, Dr. Sabnis retired to become Emeritus Professor after 32 years of service. While at Howard, he also had his own construction management firm with offices in New York and Silver Spring, MD for almost 20 years.

Dr. Sabnis served in various positions in ACI, ASCE and ASEE technical committees over 30 years and is the author/editor of 20 books and over 200 research publications published in many countries. His books in India include, Mix Design of Concrete with Mr. M. Y. Sabnis (sixth edition) and book on Repair of Concrete with Peter Emmons (Galgotia Publications). His recent books include "Green Building with Concrete: Sustainable Design and Construction" (2011) by CRC Press and "Concrete Construction and Structural Evaluation: Symposium honoring Dov Kaminetzky", SP-285 (2012) by American Concrete Institute. He holds two U.S. Patents in Mechanical Drive Systems. One of these is on a Multi-speed Axle Drive System and the other is on Transfer Drive System.



Dr. Anita Sengupta is a Senior Systems Engineer at NASA™s Jet Propulsion Laboratory (JPL). She has been developing entry and propulsion systems for Mars, Venus, and deep space missions for the past decade. She is currently the project manager of the Cold Atom Laboratory mission, a Laser Cooling Experiment being developed for the International Space Station. She is also the principal investigator for the Orion Vehicle Drogue Parachute Wake Interaction Program. Prior to this she led the development of the Mars Science Laboratory Supersonic parachute, a Mars Ascent Vehicle, a Venus lander mission, a Mars Sample return mission concept, and was Co-Investigator of several plasma propulsion development programs including VHITAL, NEXIS, and Prometheus 1.

She received her PhD and MS in Aerospace Engineering from the University of Southern California, where she is currently teaching Spacecraft Design in the Astronautics Department. She received her BS in Aerospace Engineering from Boston University.

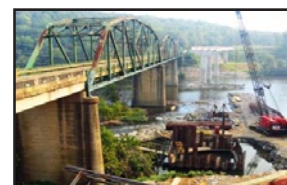


Ms. Nipa Shah is an entrepreneur with technology, procurement and marketing expertise. Nipa's professional career started at General Motors Corporation where she quickly gained a reputation for impacting the bottom-line directly. Nipa helped GM save \$30 million dollars through reengineering activities which included consolidating applications and streamlining operational support for non-critical applications. As a GM purchasing manager and during one of the largest contractual negotiations (EDS-GM contract) in information technology history, Nipa led the negotiations for technology contracts valued at \$850 million and helped GM achieve over \$200 M in savings.

In 2008 she won the National Women in Business Organization's Top 10 award for being a Global Business Leader in Michigan. Nipa speaks at various conferences and events. Her speaking engagements include the Michigan Department of Transportation's Small Business Conference, Walsh College's "Entrepreneur U" conference, Women's Leadership Conference, Michigan Parks & Recreation Conference, Michigan Minority Supplier Development Purchasing Conference and an international speaking engagement at a Conference in Gujarat, India.

Nipa Shah is an entrepreneur with technology, procurement and marketing expertise. Nipa's professional career started at General Motors Corporation where she quickly gained a reputation for impacting the bottom-line directly. In 2004, Nipa launched a boutique web marketing agency focused on implementing "Everything Web". A pioneer in the online space, she created one of the first social media execution campaigns in the Michigan market. Authentic, engaging and authoritative, Nipa is a leading voice for implementing 360 degree marketing and web strategies that have a direct impact on the bottom-line.

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TECHNICAL SPEAKERS



Ms. Sangeeta Shah is a Shareholder of the intellectual property firm, Brooks Kushman, with offices in Detroit, Michigan and Los Angeles, California. She has an international practice that emphasizes all aspects of intellectual property litigation, prosecution and counseling, including patent, trademark, trade secrets, design patent and copyright cases, with a special focus on patent litigation and opinion practice. With over 20 years of experience, Ms. Shah represents a broad range of corporate clients including several Fortune 500 companies for whom she provides strategic counseling and guidance on their global intellectual property portfolios. Ms. Shah is a regular speaker on IP issues and has recently been named as a 2012 "Women in the Law" honoree by Michigan Lawyers Weekly.



Mr. Andrew Turner is a Registered Patent Agent at Brooks Kushman, and a recent law school graduate. His practice focuses on domestic and international patent prosecution for electrical and mechanical systems, designs and software. His practice also includes client counseling, intellectual property portfolio management, litigation and opinion support, and patent reexaminations. He holds degrees in electrical and mechanical engineering. Prior to entering the legal profession, Andrew managed the design, development and production of a number of electro-mechanical systems in the automotive industry for nearly a decade. Andrew utilizes his broad engineering background and industry experience to protect his client's intellectual property rights.

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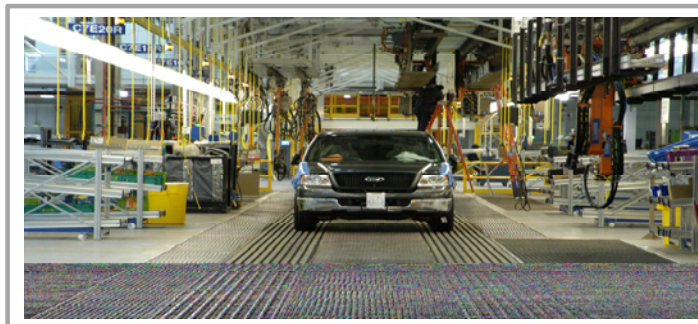
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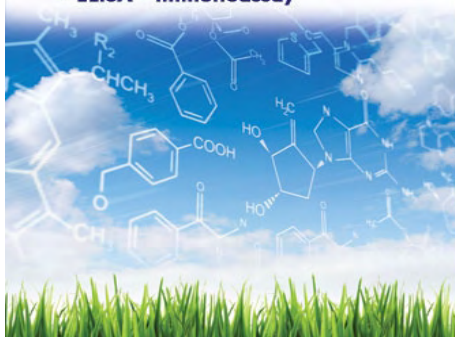
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PANEL SPEAKERS



Dr. Hira Fotedar is the President of Fotedar Associates LLC. He retired as Vice President of Corporate Quality and Operational Excellence, Eaton Corporation where over a period of 28 years, he held progressively senior management and leadership positions in product development, manufacturing, quality and operational excellence.

Prior to joining Eaton, Dr. Fotedar was Associate Professor Materials Engineering and Head of Quality Assurance, Nuclear Reactors at the Instituto de Pesquisas Energia Nuclear (IPEN) Sao Paulo, Brazil where he established programs and conducted research in materials for nuclear and automotive industries. Prior to IPEN he was a Post Doctoral Research Fellow at the Imperial College of Science and Technology, London, UK

Dr. Fotedar holds a B.S, Metallurgical Engineering from IIT-BHU, Varanasi, India, M.S and PhD in the same field from the University of Washington, Seattle. He is an ASQ Fellow, a Founder and former Chairman, Ohio Partnership for Excellence. He is an Alumnae of the Board of Examiners, Baldrige Award for Performance Excellence and serves on the Boards of Directors of many organizations. He recently retired as Chairman of WINOC (Work in North East Ohio Council) a not-for profit serving small and mid size companies in northeast Ohio to drive profitably, growth and performance excellence through people



Mr. Naveed Hussain leads Platform Systems and Information Technology Research at Boeing Research & Technology, an organization of approximately 650 scientists and engineers performing advanced research in areas including electronics, electro-optics, modeling & simulation, homeland security, power and energy management systems, advanced air traffic management, semiconductors, networked systems, and cyber-security.

Naveed has also served as the leader of the Enterprise India Engineering and Technology strategy and was based at Boeing's India offices in New Delhi. In this role he was responsible for identifying, establishing, and implementing engineering design and technology development opportunities to support Boeing's overall India strategy. Naveed led the launch of the Boeing Research & Technology-India Centre based in Bengaluru, which serves as Boeing's nodal point for collaborative technology development working with Indian government labs, industry, and academia.

Naveed has been actively involved in the leadership of strategic technology planning and R&D coordination, system engineering training, and product development processes. He began his career at Boeing in 1990 as a Howard Hughes Doctoral Fellow. Naveed earned his BS from Rensselaer Polytechnic Institute, and his MS and PhD from Stanford University, all in Mechanical Engineering. He also completed his MBA from The Wharton School, University of Pennsylvania. Naveed is married and has three children.



Mr. Robert (Bob) Nathan is President and CEO of DataNet Systems Corp., a 25-year Washington DC-based Information Technology services company, with providing IT Services to federal, state, and local governments in the areas of Health IT, Public Safety, Education, and eGovernance applications. His expertise extends to systems/software engineering, systems architecture, network infrastructure, simulation, telecommunications, and project/program management. Bob is the current President of the Maryland India Business Roundtable (MIBRT), and the current national President of IIT Madras Alumni Association of North America (IITMAANA). He sits on the boards of the Capital IIT and PanIIT organizations. Bob was part of the planning group that worked on the largest US

Trade delegation led by Maryland Governor Martin O'Malley to India in November 2011. He was also a part of the Prince George's County's Trade delegation to India Soft 2012, an IT conference organized by Indian Export Promotion Council in Hyderabad, India held in March 2012.

Bob holds a BTech (Chemical Engineering) from the Indian Institute of Technology (IIT), Madras, MS (Gas Engineering) from the Illinois Institute of Technology, Chicago; and MS (Computer Systems Management), University of Maryland University College, College Park.

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PANEL SPEAKERS



Dr. Sasi Pillay serves as the Chief Technology Officer for Information Technology (IT) at National Aeronautical and Space Administration (NASA). In this capacity, he oversees how promising technologies are developed, evaluated and integrated into mainstream IT services at the Agency. At present, over 25 new technologies are being evaluated for possible adoption. He also has the responsibility for managing Enterprise Architecture and Open Innovation activities for the Agency. Recently he led the creation of the Mobility Strategy for the Agency.

Under his leadership, NASA Glenn served as the lead for NASA for the development of Agency-wide standards and architecture for end user devices and systems with a focus on security, interoperability, and collaboration. 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. 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.



Mr. V. Anand Sankaran, Executive Technical Leader in Energy Storage and High Voltage Electrical Systems, is a recognized leader in Electrification Technologies, namely, energy storage system, hybrid transmission system, e-drive system, power electronics, power semiconductor devices and reliability. He received his B.S. in Electrical Engineering from P.S.G. College of Technology, India in 1986, followed by M.S. and Ph.D. degrees in Electrical Engineering from Univ. of South Carolina, Columbia in 1998 and 1991 respectively. He has an MBA from Univ. of Michigan, Ann Arbor. He began his career as a Power Electronics Technical Specialist at Ford Research and Innovation

Center. He received the Henry Ford Technology Award in 1999 for his electrification work while at Ford Research Lab. He then moved to product development and led the successful implementation of these new technologies in production programs, namely, "Escape Hybrid - the most fuel efficient SUVs on the planet", "Fusion Hybrid- the most fuel efficient mid size sedans in North America" and Lincoln MKZ Hybrid. He is currently leading the development of Ford's lithium ion battery and in-house energy storage system solutions and related technologies, namely, chargers, converters and high voltage systems for global applications.

Anand's contributions include, 21 publications in internationally recognized Conferences and Transactions, 27 patents in the area of automotive power electronics and hybrid vehicle technologies. As a Member of Institute of Electrical and Electronics Engineer (IEEE), Anand has served in various capacities in the IEEE Industry Applications Society and was the Chairperson for the IEEE Workshop on Power Electronics in Transportation (1992 through 1998). He served as Publications Chairman for the 2011 IEEE Energy Conversion Conference and Expo. He was named by Automotive News as one of the top 100 most influential leaders in electrification in 2011.



Mr. Sharanpal (Paul) Sikand is a Boeing Technical Fellow and Designated Representative of the FAA. His technical expertise includes airplane propulsion systems, auxiliary power unit, fuel, and fire protection systems and design integration. Paul has a MS degree in mechanical Engineering from Stanford University and a BS in Mechanical Engineering from Purdue University. Paul has two patents and is recipient of the Boeing Special Invention Award. He has been awarded the SAE Marvin Whitlock Award and the Franklin Kolk Award in recognition of his contributions to the aerospace industry. Paul has authored over 20 papers and won best paper and presentation awards at international conferences. Paul is a volunteer in various technical, professional, charitable and civic Organizations. He is the past Chair of the ASEI National and past President of

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