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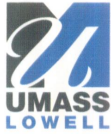
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**KLE CENTENARY** — Since 1916 — CELEBRATING 100 YEARS OF TRANSFORMING LIVES

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**KLE Technological University, Hubballi 31**
In association with
**Indo-US Collaboration for Engineering Education (IUCEE)**

**IUCEE** — Indo-US Collaboration for Engineering Education

Cordially invite you to the Inauguration of

**ICEMII - 2016**
International Conference on
**Enabling 'Make In India'**
Challenges and Opportunities for ENGINEERING EDUCATION

Chief Guest
**Sri. Manohar Parrikar**
Hon. Defence Minister of Govt. of India.

Key note address by
**Dr. R. Natarajan**
Former Chairman AICTE, Former Director, IIT Madras.

Guest of Honour
**Sri. Pralhad Joshi**
Hon. Member of Parliment, Dharwad

Presided by
**Dr. Prabhakar Kore**
Chairman - KLE Society, Belgaum, India

January 6th, 2016 Bio-Technology Auditorium at 5-30 pm

Conference Co-Chairs

**Dr. Ashok Shettar**
Vice Chancellor
KLE Technological University, Hubballi.

**Dr. Krishna Vedula**
Executive Director
IUCEE

---

**Invitation**

**KLE CENTENARY** — Since 1916 — CELEBRATING 100 YEARS OF TRANSFORMING LIVES

International Conference on
Enabling 'Make in India'

Challenges and Opportunities for
**ENGINEERING EDUCATION**

MAKE IN INDIA

**ICEMII - 2016**
6th - 8th January 2016
Hubballi 31, India

Host

**KLE TECH.**
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# ICEMII - 2016

## International Conference on
## Enabling 'Make in India'

Challenges and Opportunities for **ENGINEERING EDUCATION**

6th - 8th January 2016

MAKE IN INDIA

**ENGINEERING EDUCATION**

Campus Ecosystem

Learning Experience

Innovative Minds

Enabling Entrepreneurial Ecosystem

Creating Realistic Production Environments

Exposure to interplay of Technologies

Building Strong Design and Product Realization Skills

Creating Transformative Educational Experiences

Host

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Indo-US Collaboration for
Engineering Education

Join us to work towards a framework that makes a difference...

# International Conference on
# Enabling 'Make in India'

Challenges and Opportunities for **ENGINEERING EDUCATION**

## About the Conference

Make in India is a new initiative launched by the honorable Prime Minister, Shri Narendra Modi, with an aim to transform India into a global manufacturing hub.

Engineering professionals as designers, technologists and entrepreneurs, will be playing an important role in this initiative. For India to emerge as a global manufacturing hub, the quality and skills of the engineering workforce will be a critical factor. The present and future Indian Industry requires a talented workforce with a wide variety of technical, scientific and managerial expertise, to compete and grow.

Make in India is not a challenge confined to Indian Engineering Education. Every developing and developed country has to advance its capability in product innovation, design and realization to help its economy to grow.

Hence we believe that, this is a challenge and an opportunity for the global engineering education system.

Today, business environments increasingly require engineers who can design and deliver to customers not merely isolated products, but complete solutions involving complex integrated systems. Product design is no longer solely concerned with the design of manufactured goods, it also focuses on the design of innovative products and services that will benefit individuals and society as a whole.

Ability of a nation or societies to realize the dreams like Make in India, to attract growth in industries and create jobs-demands a fresh approach to engineering education. Here is a need to integrate design, manufacturing, and business realities into the engineering curriculum and student experience.

The aim of the Conference is to bring about greater understanding of the issues involved in Make in India, sharing of world-wide best practices and experiences in this area and evolve a broad framework for the transformative process that enables the initiative.
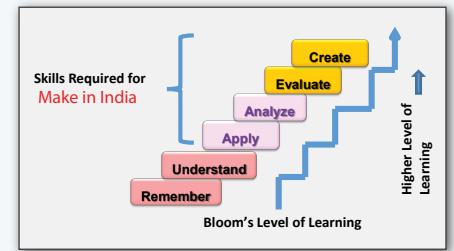
# Conference Themes

- **Creating Transformative Educational Experience**

  How we can build :
  | Experiential,
  | Contextual and situated learning environments that help students to achieve higher level skills to solve real life problems

  

- **Building Strong Design and Product Realization Skills**

  How we can bring in :
  | Strong design experience in curriculum
  | System level design expertise
  | Interdisciplinary product realisation experience
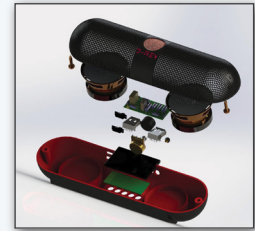
  

- **Facilitating Realistic Production Environment in the Campus**

  

  How we can create campus infrastructure and academic : processes that can help the student to realistically experience entire genesis of a product from product conception to serial production
  What are the World-wide experiences of the Learning Factory model?

- **Enabling Entrepreneurial Ecosystem in the Campus**

  

  How we can create entrepreneurial ecosystem in the Campus :
  | What are the formal and informal interventions in student educational experience that help to create entrepreneurial mind-set?
  | How institutions can contribute to the regional development ?

- **Manufacturing Reinvented – Convergence of Technologies**

  How to integrate changing face of manufacturing due to convergence of technologies, in education and research :
  | Internet of Things (IOT)  | Virtualization and Digitization
  | Additive Manufacturing  | Big Data and Cloud

  

- **Skilling India : Industry and Government Perspectives**

  How we can create skilled workforce towards realising Make in India :
  | Technical and Professional skill development
  | Skill assessment

# Case Studies

Countries across the world have undertaken initiatives similar to 'Make in India', to create jobs and boost their economies. Several efforts have been made by the academic institutions and Universities to contribute to these initiatives in their respective countries.

The case studies to be presented in the conference will focus on, sharing of successful practices / models that are evolved by the academic institutions across the world to positively impact similar movements like 'Make in India'.

## The names and affiliations of case study presenters

### Prof. Devdas Shetty
University of the District of Columbia
Washington, DC 20008, USA

### Prof. Lueny Morell
President, Lueny Morell & Associates &
Founder & Director of InnovaHiEd

### Prof. S K Ramesh
California State University, Northridge
CA 91330-8295

### Prof. Wonjong Joo
Seoul National University of Science and Technology
Korea

# Plenary Sessions:

Quality and skills of the engineering workforce are very critical to sustain and grow 'Make in India' initiative. We need to enable engineering graduates to create innovative products and services that will benefit the society and create business opportunities. The Universities and colleges in India need to create appropriate educational experiences and campus ecosystem that prepares future engineers to be ready for the challenges of 'Make in India'.

Keeping the above factors in mind following themes are chosen for the Plenary Sessions of the conference

1. Creating Transformative Educational Experience
2. Building Strong Design and Product Realization Skills
3. Enabling Entrepreneurial Ecosystem in the Campus
4. Manufacturing Reinvented – Convergence of Technologies
5. Skilling India : Industry and Government Perspectives

## Registration Open
### Early Bird Registration closes on
## Dec 15, 2015

Renowned experts from the academia and industry will be sharing their experiences and good practices in these sessions.

---

**Host :**

KLE Technological University
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B. V. B. College of Engineering & Technology
Vidyanagar, Hubballi - Karnataka State - India
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**Conference Co-Chairs**

Ashok Shettar,
Vice Chancellor
KLE Technological University,
Hubballi, India

Krishna Vedula
Executive Director
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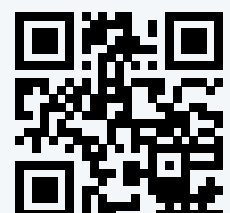
**Contact Us**

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Vidyanagar, Hubballi 580031. India
Web : www.icemii.in   Email : icemii@bvb.edu
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# ICEMII-2016

## International Conference on Enabling 'Make in India'

### Challenges and Opportunities for ENGINEERING EDUCATION

www.icemii.in

**6th - 8th Jan. 2016**
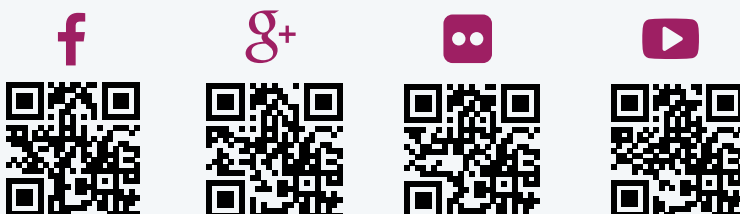
## Appeal for Corporate Sponsorship

Make in India is a new initiative launched by the honorable Prime Minister, Shri Narendra Modi, with an aim to transform India into a global manufacturing hub.

Engineering professionals as designers, technologists and entrepreneurs, will be playing an important role in this initiative. For India to emerge as a global manufacturing hub, the quality and skills of the engineering workforce will be a critical factor. The present and future Indian Industry requires a talented workforce with a wide variety of technical, scientific and managerial expertise, to compete and grow.

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The aim of the conference is to bring about greater understanding of the issue involved, sharing of world-wide best practices and experiences in this area and evolve a broad framework for transformative process.
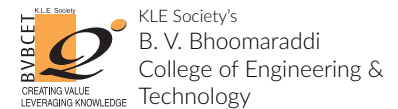
The Conference will be held at BVB College of Engineering and Technology (BVBCET), Hubli, Karnataka, India from January 06 to 08, 2016. This college is one of the few colleges which have been able to transform themselves, very significantly, in recent years. The leaders at BVBCET believe that IUCEE (Indo US Collaboration for Engineering Education) has helped facilitate this process.

IUCEE along with IFEES (International Federation of Engineering Education Societies and GEDC (Global Engineering Deans Council) are co-hosts of this Conference.

### Host

**KLE Technological University**
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K.L.E. Society
**KLE Society's B. V. Bhoomaraddi College of Engineering & Technology**
BVBCET CREATING VALUE LEVERAGING KNOWLEDGE

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**GEDC** GLOBAL ENGINEERING DEANS COUNCIL

**CII** Confederation of Indian Industry

## Corporate Sponsorship Options Available at ICEMII 2015

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Credits on Website and conference literature Prominent visiblibility on backdrops at all event venues

Full Page Ad Space on inside cover of the ConferenceSouvenir

Free Conference Registration for 05 persons.

You pay : Rs. 5,00,000/-
US$ 10,000

### GOLD

You get :

An exhibition stall Credits on Website and conference literature

Prominent visiblibility on side-drops at all event venues

Full Page Ad Space in the Conference Souvenir

Free Conference Registration for 02 persons.

You pay : Rs. 3,00,000/-
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### SILVER

You get :

Credits on Website and conference literature.

Prominent visibility on side-drops of main venue.

Half Page Ad Space in the Conference Souvenir.

Free Conference Registration for 01 person.

You pay : Rs. 2,00,000/-
US$ 4,000

### BRONZE

You get :

Credits on Website and conference literature.

Visibility on side-drops of main venue.

Quarter Page Ad Space in the Conference Souvenir.

You pay : Rs. 1,00,000/-
US$ 2,000

## Conference Co-Chairs

**Ashok Shettar,**
Vice Chancellor
KLE Technological University,
Hubballi, India

**Krishna Vedula**
Executive Director
IUCEE

## Contact Us

CEER, KLE Technological University
Vidyanagar, Hubballi 580031. India
Phone : +91 836 2378407, Fax : +91 - 836 - 2374985
Web : www.icemii.in  Email : icemii@bvb.edu

**Payment may be made through DD favoring "The Principal, BVBCET, Hubballi" .**

KLE CENTENARY
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# International Conference on Enabling 'Make in India'

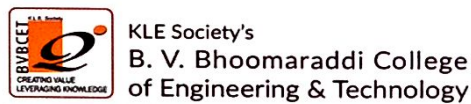## Challenges and Opportunities for
## ENGINEERING EDUCATION

## ICEMII - 2016

6th - 8th January 2016
Hubballi 31, India

*A KLE Centenary Event*

MAKE IN INDIA

Host

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Ability of a nation or societies to realize the dreams like Make in India, to attract growth in industries and create jobs-demands a fresh approach to engineering education. Here is a need to integrate design, manufacturing, and business realities into the engineering curriculum and student experience. Thus KLE Technological University has aptly chosen to host this International conference on "Enabling Make in India: Challenges and Opportunities for Engineering Education". This conference is a part of Centenary celebration of KLE Society, the parent organization of KLE Tech.

The aim of the Conference is to bring about greater understanding of the issues involved, sharing of world-wide best practices and experiences in this area and evolve a broad framework for transformative process. The deliberations of ICEMII include: Case studies, Plenary sessions and Panel discussions
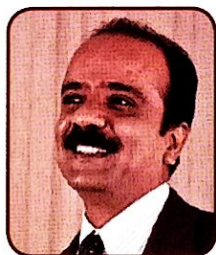
# ICEMII 2016 Organisation
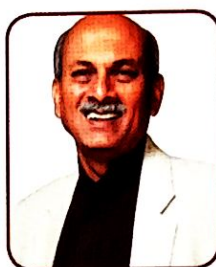
**Dr. Prabhakar Kore**
Chancellor
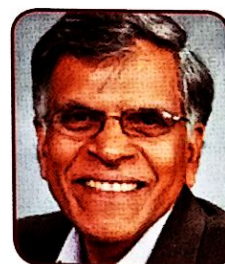KLE Technological University, Hubballi
Chairman, KLE Society, Belgaum.

## Conference Co Chairs



**Dr. Ashok Shettar**
Vice Chancellor
KLE Technological University, Hubballi



**Prof. Krishna Vedula**
Professor
Dean Emeritus, University of Massachusetts
Lowell, USA.,
Executive Director, IUCEE

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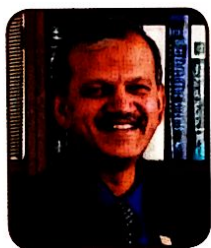
**Dr. S K Ramesh**
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California State University,
Northridge, CA

**Dr. Madhusudan Atre**
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Vice President & Global Head
of Education and Competency
Development (ECoDe) at KPIT
Technologies Ltd.

# Organizing Committee

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Hubballi

**Prof. P G Tewari**
Principal,
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Hubballi

**Prof. Gopalkrishna Joshi**
Director
Centre for Engineering Education Researcch,
KLE Technological University
Hubballi
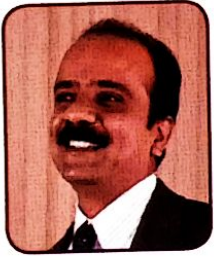
**Dr. Ashok Shettar**
Vice Chancellor
KLE Technological University
Hubballi

Dear Delegate,

I thank you very much for choosing to attend this unique conference – "International Conference on Enabling Make in India: Challenges and Opportunities for Engineering Education".

"Make in India" is a visionary initiative of Government of India aiming at making India a manufacturing hub of the world. Engineering Education has a responsible role to play in realising this dream. KLE Technological University, Hubballi is hosting this conference recognising the importance of this role as a part of centenary celebration of KLE Society, our parent organisation.

ICEMII is architected by eminent academicians as well as experts from Industry from India and abroad. Indo – US Collaboration for Engineering Education ( IUCEE) is the co-organisor. The conference has collaboration with Confederation of Indian Industries ( CII ), International Federation of Engineering education Societies ( IFEES) and Global Engineering Deans Council (GEDC). TEQIP (Government of India), Dassault Systems and KPIT have sponsored the conference.

The conference proceedings include case studies, plenary sessions and panel discussion where in learning from different parts of the world from both academia and industry is being showcased. I trust the proceedings of the conference will give you an opportunity to learn and appreciate the efforts done elsewhere and chalk out your plan of actions.

I wish you a comfortable and purposeful stay on our campus during ICEMII.


Dr.Ashok Shettar
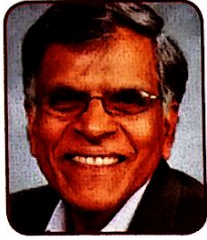
Message

## Prof. Krishna Vedula

Professor
Dean Emeritus, University of Massachusetts
Lowell, USA.,
Executive Director, IUCEE

Dear participants of ICEMII 2016,

This International Conference on Enabling Make In India is about transforming India into a manufacturing hub. For this to happen we need to build the high quality of engineering talent required. This unique conference brings together people who are passionate about innovating engineering education for this purpose. This conference is about CONNECTING and SHARING with others who are equally dedicated to this objective. This conference should be an important part of a continuous MOVEMENT which motivates all of us to work together and continue to do so. Please break down the barriers of communication between individuals and institutions as we continue to learn from and motivate each other towards our common goal.

My thanks to all the experts and delegates attending ICEMII 2016. I am grateful to the Sponsors, particularly Dassault Systemes, for their support. I applaud the leadership and faculty of BVBCET and KLETU for their dedicated service toward the organization of this memorable Conference.

Jai Ho
Krishna Vedula

## Coordination Committee

Dr. Prakash Tewari
Principal, BVBCET

Dr. B. B. Kotturshettar
HOD, Mechanical Engineering, BVBCET

Dr. Gopalkrishna Joshi
Director- Centre for Engineering Education Research (CEER), BVBCET

## Event Organizing Committee

| | |
|---|---|
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| Hospitality | : Dr. Sanjay Kotabagi, Professor & Dean, Student Welfare, BVBCET |
| Sponsorship | : Prof. A. K. Kulkarni, Director, Planning & Relations, KLE Tech. |
| | Prof. C. D, Kerur, Placement Officer, BVBCET |
| Souvenir Publication | : Mr. Raghavendra M.Shet, Asst. Prof., IT, BVBCET |
| Technical Sessions | : Dr. Nalini C. Iyer, HOD, IT, BVBCET |
| Media | : Prof. M. R. Patil, Professor, Civil, BVBCET |
| | Prof. A. K. Kulkarni, Director, Planning & Relations, KLE Tech. |
| Registration and Help Desk | : Dr. Priyatam Kumar, Professor, E&C, BVBCET |
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| Inauguration & Validictory | : Dr. Meena M, HOD, ISE, BVBCET |
| Finance | : Dr. Siddhalingeshwar I. G. , Professor, Automobile Engg., BVBCET |
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| Online Registration | : Dr. Saroja Siddmal, Professor, E&C, BVBCET |
| | Mr. Amit Gundad, Asst. Prof. ISE, BVBCET |
| | Mr. Sanjay Narendra, CTIE, BVBCET |

# Program Schedule

| January 6, 2016 | January 7, 2016 | January 8, 2016 |
| --- | --- | --- |
| | **09.00am**<br>Case Study 1: By Dr.Devdas Shetty<br>Topic: "Designing and creating smart products through Maker Movement " | **09.00am**<br>Plenary Session 3:<br>Theme: "Enabling Entrepreneurial Ecosystem in the Campus " |
| | **10.00am**<br>Plenary Session 1:<br>Theme: "Creating Transformative Engineering Educational Experience" | **10.30am**<br>Case Study 4: Dr.Wonjong Joo<br>Topic: "Development and Practices of Innovation Ecosystem in Engineering Education: Role Plays of Universities, Industry, and Government " |
| | **11.30pm** Tea | **11.30am** Tea |
| | **12.00pm**<br>Case Study 2: By Dr. Lueny Morell<br>Topic: The Learning Factory "Working Together to Develop Talent for Manufacturing" | **12.00pm**<br>Plenary Session 4:<br>Theme: "Manufacturing Reinvented – Convergence of Technologies" |
| | **01.00pm** Lunch | **01.30pm** Lunch |
| **02.00pm**<br>Registration | **02.00pm**<br>Plenary Session 2:<br>Theme: "Building Strong Design and Product Realisation Skills " | **02.30pm**<br>Plenary Session 5:<br>Theme: "Skilling India: Industry and Government Perspectives " |
| | **03.30pm** Tea | **4.00pm** Tea |
| | **04.00pm**<br>Case Study 3: Dr. S. K. Ramesh<br>Topic: CSU Northridge Initiatives in Advanced Manufacturing, Entrepreneurship and Innovation | **04.15pm**<br>Panel Discussion |
| **05.30pm**<br>Conference Inauguration | | **05.30pm**<br>Valedictory |

# Case Study on designing and creating smart products through "maker movement"

Speaker

## Prof. Devdas Shetty

Dean, School of Engineering and Applied Science, Professor of Mechanical Engineering,
University of the District of Columbia
Washington, DC 20008, USA

## Abstract

This case study examines the growth of innovation through the " maker movement" that has empowered many to become producers of gadgets, not just consumers of gadgets. The maker movement has helped communities across the US in investing Makerspaces, FabLabs, and TechShops. The study examines several models of how maker movement has impacted designers, skilled volunteers, public and private institutions, educational institutions in expanding facilities to create a vibrant design and manufacturing culture.This movement has helped advance a number of national priorities such as in STEM education,innovation, entrepreneurship, and advanced manufacturing.

## Speakers Biodata

Dr. Devdas Shetty serves as Dean of the School of Engineering and Applied Sciences at the University of the District of Columbia, where he is also a Professor of Mechanical Engineering. He previously served as Dean of Engineering at Lawrence Technological Institute and Dean of Research at the University of Hartford. At the University of Hartford he was the founding chair-holder of the Vernon D. Roosa Endowed Professorship. As Director of the Engineering Applications Center, he had set up partnership with more than 50 industries. He also held positions at the Albert Nerkin School of Engineering at the Cooper Union for the Advancement of Science and Art in New York City.

The author of four books, and more than 225 scientific articles and papers, Dr. Shetty's textbooks on Mechatronics and Product Design are widely used around the world. His work has been cited for contribution to the understanding of surface measurement, intellectual achievements in mechatronics and contributions to product design. He has five Patents for inventions that involve interdisciplinary areas of mechanical engineering, electronics and computer science.

Dr. Shetty has led several successful multi institutional engineering projects. In partnership with Albert Einstein College, he invented the mechatronics process for supporting patients with ambulatory systems for rehabilitation. In partnership with Armament Research, Development and Engineering Center (ARDEC), he led a multi-university industry team for the successful design and testing of a hybrid projectile. He established academic and research programs Laser Manufacturing in collaboration with Connecticut Center for Advanced Technology (CCAT) under the National Aerospace Leadership Initiative (NALI). Major honors include the James Frances Bent Award for Creativity, the Edward S. Roth National Award for Manufacturing from the Society of Manufacturing Engineers, the American Society of Mechanical Engineer Faculty Award, and the Society of Manufacturing Engineers Honor Award. He is an elected member of the Connecticut Academy of Science and Engineering. He is the author of Mechatronics System Design published by Cengage Learning, now in its second edition and the 2016 new book on Product Design for Engineers published by Cengage

# The Learning Factory "Working Together to Develop Talent for Manufacturing"

**Speaker**

## Prof. Lueny Morell, MS, PE

President, Lueny Morell & Associates &
Founder & Director of InnovaHiEd

## Abstract

On February 21, 2006, the National Academy of Engineering recognized the achievements of the Learning Factory with the Bernard M. Gordon Prize for Innovation in Engineering and Technology Education. The co-founders were commended "for creating the Learning Factory, where multidisciplinary student teams develop engineering leadership skills by working with industry to solve real-world problems." This presentation will describe the motivation, philosophy, and implementation of the Learning Factory in a collaborative effort between academic institutions, industry and government. The specific innovations of the Learning Factory partnership were: active learning facilities, called Learning Factories, that provide experiential reinforcement of engineering science focused on a product realization/manufacturing option for engineering programs; strong collaborations with industry through advisory boards, engineers in the classroom, and industry-sponsored capstone design projects; practice-based engineering courses integrating analytical and theoretical knowledge with manufacturing, design, business concepts, and professional skills; and dissemination to other academic institutions (domestic and international), government and industry. The presentation will focus on both the what was done, as well as the how it was achieved. It will also address Make in India Conference important questions like:

How academic institutions can promote innovation ecosystem to enhance the capability of the students, faculty and entrepreneurs in design and realisation of products and services?

What are the good practices, enabling facilities institutions need to create, to contribute to the initiatives like 'Make in India'?

What type of partnerships with industry and government are necessary to promote such initiatives?

How these initiatives connect to the promotion of regional economy?

## Speakers Biodata

Lueny Morell, MS, PE, Ing.Paed.IGIP is President of Lueny Morell & Associates and Founder & Director of InnovaHiEd, a world-class team of experts with extensive academic and industry experience offering services to help higher education leaders in transforming their institutions to better respond to their stakeholders' needs and the socioeconomic development challenges they face. With a BS and MS in Chemical Engineering from the University of Puerto Rico and Stanford University, Lueny is co-founder of NEU, a novel platform to teach engineering in Silicon Valley, California. From 2002 to 2013 she was part of the HP Labs Strategy, Open Innovation and University Relations teams and a full professor of Chemical Engineering at University of Puerto Rico - Mayagüez for 24 years, where she had various academic and administrative positions, including Director of R&D. She is an IEEE Senior Member, an ASEE Fellow and ABET Program Evaluator and has received various awards for her work, including the prestigious US National Academy of Engineering Gordon Prize for innovations in engineering education in 2006. Recognized as one of the Engineering Education Pioneers in the US in 2014, Lueny is passionate about engineering education and innovation as fundamental pillars for economic and social well-being. She is co-founder of IFEES (Past President), GEDC and SPEED. Lueny maintains a blog on topics associated with innovation and engineering education (www.luenymorell.com; www.innovahied.com).

# CSU Northridge Initiatives in Advanced Manufacturing, Entrepreneurship and Innovation
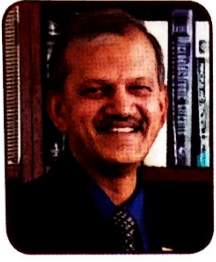
**Speaker**

## Dr. S K Ramesh,Ph.D

Dean, College of Engineering and Computer Science &
California State University, Northridge, CA

## Abstract

**CSUN has a long standing commitment to promote advanced manufacturing as evidenced by the following:**

1. We offer one of the three ABET accredited Bachelor's degree programs in Manufacturing Systems Engineering in the State of California and is a leading partner in the national Maker Faire Movement, Higher Education University Alliance.

   The 5000 square foot Haas Automation Lab in the College of Engineering and Computer Science features rapid protoypers, 3-D Printers and the latest CNC machines and has supported generations of students over the past two decades.

2. The College has several nationally recognized programs and is in the midst of a five year, $ 5.5 M grant awarded by the US Department of Education in 2011, to enhance the graduation of under-represented minorities in engineering. See https://www.youtube.com/watch?v=I0Fzz-1t78s&list=PLi-dqTm4tmee G9SabKxNd75UJl4s3UHBK&index=3 for Congressman Cardenas' remarks commending the program which received national recognition from the Excelencia Foundation in Washington DC on Sep 30, 2014. It was also recognized as a Bright Spot in Hispanic Education by the White House Initiative for Educational Excellence for Hispanics.

3. The College works very closely with high schools to encourage students to pursue engineering by offering our "Introduction to Engineering" course to high school students for college credit through our ACCESS program.

4. The college has a culture of supporting innovation and celebrates the success of its students through annual events such our Project Showcase (see http://www.csun.edu/engineering-computer-science/senior-design-project-showcase). Recent successes include first place at the 2015 SMI Product and Manufacturing System Design Contest sponsored by SMI for a project entitled "Hybrid Layered Manufacturing 3D Printer";first place honors by our student teams in the national AeroDef Manufacturing Challenge (2013), the SHPE National Design Competition in 2011 (Living Green) and 2009 (Assistive Technology) and the 2012 and 2011 national Intelligent Ground Vehicle Championships. Notably the winners of the SHPE design competition have received support to patent their projects and explore commercialization.

5. Through the College's Ernie Schaeffer Center for Entrepreneurship and Innovation we are developing programs to engage students in advanced manufacturing and entrepreneurship utilizing the latest technologies, and 3-D Printers, complemented with advanced material characterization capabilities. The Center hosts an annual conference on the Art of Innovation.

6. And finally, CSUN is taking the lead in the Los Angeles region to serve as a respected source of talent and continuing education in engineering that serves a variety of industries including Aerospace, Biotech and Clean Tech to name a few. See videos from the White House STEM workshop (one of four workshops around the country) that CSUN hosted on October 7, 2014:

This presentation will cover the initiatives in Advanced Manufacturing and Innovation and the resources at CSUN and opportunities for collaboration with the community.

## Speakers Biodata

Dr. Ramesh has been serving as the Dean of the College of Engineering and Computer Science at California State University, Northridge since 2006. Prior to joining CSUN he was Professor of Electrical and Electronic Engineering at California State University, Sacramento, where he was the Department Chair from 1994 to 2006. His efforts and leadership have created jobs and enhanced the growth of high technology industries through the Center for Entrepreneurship and Innovation and Energy Research Center at CSU Northridge. Examples include a Satellite Clean Tech Incubator, a Master's Degree in Assistive Technology Engineering – whose graduates help design and create products to serve persons with disabilities; and as the PI of the nationally acclaimed five year AIMS2 (www.ecs.csun.edu/aims2) program to graduate underrepresented minorities in engineering and computer science with a $ 5.5 Million grant from the US Department of Education.

In 2014 Ramesh was invited by the White House Office of Science and Technology Policy (OSTP) to host one of the four national White House STEM workshops at CSU Northridge to broaden participation of minorities in the STEM disciplines, remove barriers, and improve student graduation rates- especially in engineering and computer science. Ramesh is a Past President of the CSUS Sigma Xi Chapter (Scientific Research Society (www.sigmaxi.org) and has been recognized with several awards for innovative teaching, scholarship and service to the profession and the community. In 2012 he was recognized with the "John Guarrera Engineering Educator of the Year" award by the Engineers Council (www.sfvec.org).

Dr. Ramesh serves on several Boards including the IEEE Educational Activities Board, the IEEE-HKN Board of Governors, and ABET Board of Directors. He has served ABET as a program evaluator representing IEEE. He has just been elected to serve as the IEEE Vice-President for Educational Activities in 2016, as well as the IEEE-HKN President for 2016. Also in 2016 he has been appointed to serve on the newly restructured ABET Board of Delegates representing IEEE in the area of ABET accredited programs in Engineering and Technology. During 2015 he chaired the IEEE EAB Pre-University Coordinating Committee leading signature programs such as TISP (Teacher in Service program) and EPICS (Engineering Projects in Community Service) in IEEE. He volunteers his time to support and improve engineering education in India by offering classes and webinars online under the auspices of the IUCEE – Indo US Collaborative for Engineering Education (www.iucee.org).

# Development and Practices of Innovation Ecosystem in Engineering Education: Role Plays of Universities, Industry, and Government

**Speaker**

## Prof. Wonjong Joo

Professor

Seoul National University of Science and Technology

## Abstract

Korea is known as one of the fastest developed countries by strengthening manufacturing capability of manpower as well as technologies. As China is now following the similar track (focusing on manufacturing oriented industry) as Korea did, I guess India, similar to China in many factors, needs to consider in depth how to strengthen the manufacturing muscle. Korea has felt a crisis in last 10~15 years, especially in manufacturing sectors because followers like China approach to the level of ours in a very fast speed. Universities, however, has not paid attention to the crisis seriously like industry and governments but has been criticized from the industry by publicizing a mismatch between industry's needs and universities' education. One thing in response to industry complaints that we started in the year 2000 is to employ Capstone Design course to our curriculum to reinforce education of design. Not only 4th year capstone design course but also 1st year creative design and 2nd and 3rd year elements design courses can be aligned to the capstone design and operated steadily by a strong push from ABEEK. Most of capstone design projects in Korea are required to follow the whole process of product realization and so should be manufacturing oriented, completed products which can compete with commercials in ideas, designs, functions, and beauty.

Students are often asked to participate in competitions in college level, regional level, and national level. It takes time, however, for industry to sense the outcome of education changes. In year 2006, at the time of maximum industry complaints, Deans Council of Engineering Colleges, government, and industry had one-year long workshop to develop such an innovation ecosystem that it continuously enables universities to innovate programs, teaching methods, curriculum, industry collaboration, conversion for tech+ (technology+ economy+ culture+ human) engineers, etc., based on practical needs of them and regional industry. It is, however, very difficult and inefficient for individual university to do innovation by itself without any push from an outer innovation ecosystem. To establish a workable innovation ecosystem, it needs a large mass (a large number of universities) and a small number of leading universities (hub universities), a long term government funds, and the mechanism of systematic cooperation with other universities and industry, a competition and evaluation process. Since ICEE project was evaluated as one of the best government funded projects for the first stage of 5 year term, the second stage of ICEE project could start from year 2012 for 10 years more. The presentation demonstrates how ICEE project is created, implemented, and evaluated and what kinds of outcomes and impacts are given to the Korean engineering community and industry.

### Speakers Biodata

Wonjong Joo is a professor of Seoul National University of Science and Technology (Seoul Tech) and is a president elect of Association of Innovation Centers for Engineering Education (ICEE) representing awarded 62 universities and 7 Hub ICEE universities. He was a director of Seoul Tech's ICEE and Hub ICEE for 8 years. He was a vice president of ABEEK (Accreditation Board of Engineering Education in Korea) for 2 years from 2012. The main purpose of ICEE is to reduce the gap between industry's needs and universities' education by innovating education programs, curricular, teaching methods, and collaboration with industry. He was a committee chair of Criteria of Accreditation of ABEEK and established Criteria of Accreditation

2015 to reflect Washington Accord's requirement. His role in Seoul Tech Hub Center of ICEE is to coordinate participating 15 universities for innovation of engineering education by working together and sharing the outcomes of individual universities. He graduated from Departments of Mechanical Engineering of Seoul National University (BS), KAIST (MS), and University of Illinois at Chicago (Ph.D). His research area includes interferometric measurements, automatic fringe pattern analysis, and high speed vision inspections.

## Plenary Session 01

# Theme : Creating Transformative Educational Experience

**Speaker**

**Mr. Xavier Fouger**

Senior Director, Global Academia
Programs Dassault Systemes (3 DS)

## Abstract

### National Manufacturing Initiatives: New Economy needs Reshaping Engineer's Skills Profile

The recent years have seen many governments realizing that sustained employment or economic development requires industry at large to embrace new principles such as user-centric value chains, responsive, agile, distributed ("smart") production, global optimization of value creation, personalization, or new avenues to reach consumers. National initiatives have mushroomed in support of the required transitions of socio-technical practices, business models and economical and regulatory structures. One could name "Industrie 4.0" in Germany, "Manufacturing 2025" in China, "Manufacturing Renaissance" in the USA, "Make in India" or "Industry of the Future" in France.

The new economy resulting from those initiatives will be designed and operated by engineers. Many of them are yet to graduate and the challenge on engineering educators is considerable. Personalized production techniques, distributed engineering and manufacturing, smart production facilities, globally dispersed stakeholders are some characteristics of the new industry that determine new competences in engineers.

Beyond those examples, many other new practices will gain momentum as a consequence of national manufacturing initiatives. Additive manufacturing, crowd based innovation, big-data dashboarding, digital factory, Internet of Things and its disruptive business models,... Because they will have large impacts on engineering skills, Dassault Systemes works with industry to define them and with academia to bring them into the curriculum.

## Speakers Biodata

An Industrial Engineer, former Science Attaché in Vienna, Xavier Fouger joined DassaultSystemesin 1990. He developed new innovation processes for various automotive manufacturers and created the corporate organization in charge of global academia.He designed cutting edge learning initiatives for secondary and vocational education in the USA, Malaysia, Canada and France wherehe introduced in a STEM program for 11,500 high school students. He initiated PLM competency centresin India, China, Brazil, Mexico, Colombia, South Africa, Vietnam and Argentina.He managesresearch funded by US and European agencies on virtual labs, collaborative engineering, 3D in MOOCs and textbook virtualization. He helps institutions and governments in transferring into educational programs emerging industry practices such as social innovation, precision agriculture, the Internet of Things or systems engineering.A founding member of IFEES and GEDC, Director of SEFI, he provides lectures and seminars on innovation management.

**Speaker**

## Mr. Sudhir K Jhajharia
Deputy Director,
Engineering Cluster,
Singapore Polytechnic, Singapore

## Abstract

### Growing Engineering Innovators: Lessons from CDIO Journey at Singapore Polytechnic

In recent decades, serious endeavours have been made by academia, industry and governments to reform engineering education. One such journey began in 2001 with the formation of CDIOTM Initiative by MIT and three Swedish Universities, and Singapore Polytechnic has been a CDIO collaborator since 2004.

This presentation provides an overview of CDIOTM and how it is implemented in Singapore Polytechnic and how Singapore Polytechnic has enhanced and strengthened its engineering programmes to develop innovative, ready to engineer graduates of the future.

The presentation will also describe the "Engineering Academy" programme which aims to nurture engineers who are not only competent and skilled but passionate about engineering, how it was developed and implemented with different initiatives adopted and adapted through CDIOTMover the last 10 years, and our future explorations in linking with Maker movement.

## Speakers Biodata

Sudhir K Jhajharia is presently a Deputy Director at the Engineering Cluster, Singapore Polytechnic. He joined Singapore Polytechnic upon receiving his M.A.Sc degree in Electrical Engineering from University of Ottawa, Canada and a B.Tech in Electronics and Electrical Communication Engineering from the Indian Institute of Technology (IIT), Kharagpur, India.

Although he derives maximum satisfaction in moulding a young life through education & training, his current work responsibilities include initiating innovations in Engineering Education through curriculum design and development utilizing new pedagogical approaches. His technical interests are in the area of Broadband and Mobile communication systems, their applications, and design-centred engineering projects.

Speaker

## Dr. Yogesh Velankar

Adjunct Professor,
KLE Technological University, Hubballi

## Abstract

### Developing Reflective Engineers

One of the main goals of engineering education is to develop technically proficient and socially responsible engineers. There are great expectations from the current and future generation of engineers to address a broad range of grand challenges and complex problems. Engineering educators are tasked with developing the next generation of engineers by providing them transformative educational experiences. Reflection plays a critical role in making the educational experiences transformative.

This presentation will discuss the role of reflection and how it can be fostered in various modes of engineering education. Practical examples will be presented on how reflection can be incorporated in providing transformative engineering education. This talk aims to trigger a dialogue among various stakeholders on developing reflective engineers.

## Speakers Biodata

Dr. Yogesh Velankar earned his Ph.D. in Engineering Education from Purdue University, USA; a unique and first of its kind doctoral program in the world. He holds a M.S. in Electrical Engineering, and M.Ed. in Mathematics Education as an Instructional Specialist, both from the University of Texas at El Paso, USA. His B.E. is in Electronics and Telecommunication Engineering from Mumbai University, India. He is a certified high school Mathematics teacher, and a Six Sigma Green Belt holder.

Dr. Velankar is currently an Adjunct Professor in the Center for Engineering Education Research at KLE Technological University, India. He also provides independent consultancy services to academic and professional organizations. Previously, Dr. Velankar has worked in the U.S. and India in multinational organizations such as Infosys Limited, Caterpillar and Schlumberger. His industrial experiences include strategic talent management, competency & knowledge management, workplace learning, training, and professional development. He also has academic research and teaching experience across various educational levels in Science, Technology, Engineering and Mathematics.

# Theme : Building Strong Design and Product Realisation Skills

**Speaker**

## Mr. KNS Acharya

Vice President & Global Head ofEducation & Competency
Development (ECoDe), KPIT Technologies Ltd., Bangalore

## Abstract

## Paradigm shift needed in Teaching and Learning methods to build strong design and product realization skills

Developing design and product realization skills needs an altogether different approach to teaching and learning methods. The different players who constitute to foster developing this competence need a completely different approach to nurture next generation engineers. The role of an educator will be more of a facilitator than of a formal teacher. The role of a student is to fearlessly think of innovation, alternative solutions, explore the unknowns and be a collaborative player. The role of education institutions will be to encourage a different teaching and learning process and thus break the age old practices. The role of the industry is to measure the student's success on a totally different scale than pure academic standing. India as a country has been known for Services industry. The entire education system is oriented towards developing skills towards large services sector. The Make in India call and concept is the need of the hour to make India a super power by 2030 or so. Opportunities are plenty but manpower development will be the key to succeed in this mission. This presentation will try to throw some light on different possible approaches.

## Speakers Biodata

### Education & Experience

- Specialization in Systems & Control Engineering (IIT- Bombay)

- He has Total of 29 years of wide ranging experience spanning from academia to applied research and industry.

- He has Served as Associate Vice President & Head of Engineering Academy at Infosys Ltd for 9 years

- He has Served as Chief Learning Officer at Honeywell technology Solutions (A Global Giant in Aerospace and Industrial Automation Business)

- In his capacity as an academician he has served as Lecturer, Assistant Professor, Professor and Dean of Postgraduate Engineering programme in India (Collaboration with a Global University), teaching at undergraduate and postgraduate students.

- Currently he is member of Senior management of KPIT Technologies and heads the Learning function across all the business units.

## Professional Experience

- He has been invited by World Trade Council at Wichita Kansas to deliver key note address and participate in Panel discussion with Aerospace companies in US. Current Role Experience
- Member of the Senior Management of KPIT Technologies.
- Responsible for developing competency based practices across industry verticals and strategic business units.
- Responsible for Manpower development in diverse areas like Automotive electronics, Embedded Systems, Enterprise systems, PLM technologies, in collaboration with business units and partners.
- Responsible for developing external collaborations with premier institutions, research organizations, Government & Quasi government agencies, product vendors to represent industry perspectives

## Professional Skills

- He is a Certified Master Facilitator on Steven Covey's "7 Habits of highlyeffective people" from Franklin Covey & Co. Malaysia
- Has delivered many Leadership development programmes at Honeywell and Infosys Technologies Ltd.,

## Memberships and representation of external bodies

- He is a member of core committee of NASSCOM on Engineering Talent Council
- He is a Member of the core committee to develop occupational standards for ITES & Engineering Services under NSDC and NASSCOM
- He is on the Academic board and Governance council of technical educational Institutions.

**Speaker**

## Dr. S. Krishnan

Technical Specialist,
M/S Fiat Chrysler Automobiles, USA

## Abstract

## Learning from Existing Frameworks to Inspire Design Thinking - the Indian context

All skills are learnt by doing. Hence, project experiences are the obvious pathways to design thinking, system level thinking as well interdisciplinary experiences. In a curriculum, the time, space and resource constraints allocated to such exercise typically come into conflict with other course requirements. But the onus to creating a sense of ownership among students rests with the faculty choice of projects. What can we learn from Maker Faire, FIRST Robotics and Service Learning as examples? How to create and promote a Jugaad Innovation culture? This session will explore these questions briefly as well as solicit ideas and themes for exploration among the audience.

## Speakers Biodata

Dr. Krishnan is currently technical specialist at Fiat Chrysler Automobiles and is responsible for combustion methodologies, testing, simulation and hardware development related to V6 gasoline engines. Over the last 5 years he has been a key contributor providing technical guidance from proof-of-concept through production phases of an engine program.

He has eight years of undergraduate and graduate teaching experience in the areas of heat transfer, fluid mechanics and thermodynamics at the Department of Mechanical Engineering, Purdue School of Engineering and Technology at Indiana University Purdue University Indianapolis (IUPUI).He graduated with a Bachelors in Aerospace Engineering from Indian Institute of Technology, Madras (IITM)in the year 1995 and completed his MS and PhD (2000), both in Aerospace Engineering at the University of Michigan, Ann Arbor. His PhD thesis topic was in the area of optical light scattering diagnostics of flame- generated soot and his post-doctoral research was in the area of mid infrared diagnostics applications in food science, biomedical and mechanical engineering. He has published several journal and conference publications in the areas of thermal-fluid sciences, combustion and engineering education.

With his blend of passion for engineering education and an interest in practical applications, he envisions the engineering educators of today empowered and motivated to address the needs for good quality education; where education is aimed at the development of skills to address the current needs of society through well-thought out projects rooted in community development.

MAKE IN INDIA

**Speaker**

## Dr. Sudhindra Tatti

COO, National Centre for Flexible Electronics,
Indian Institute of Technology Kanpur
Kanpur - 208016, India

## Abstract

## Large Area Flexible Electronics

Large area flexible electronics is an emerging segment of electronics that allows development of new applications by integrating intelligence in the form of electronics directly on flexible substrates such as plastics, paper, textiles or metal foils. This opens up new possibilities of developing conformal, flexible, lighter and more robust applications. At the heart of this revolution is electronics that can be printed roll-to-roll by fast manufacturing processes, much the same way as newspapers are printed, thereby making the products much more affordable and if required, even disposable.

The applications of flexible electronics are wide ranging and span several sectors. These include – smart packages and labels for brand protection and anti-counterfeiting, wearable and lightweight electronics, distributed energy production through organic solar cells on curved surfaces, disposable sensors or lab-on-a-chip for health monitoring, flexible batteries, flexible displays and energy efficient lighting.

National Centre for Flexible Electronics (NCFlexE) is a joint initiative of the Department of Electronics and Information Technology (DeitY) and IIT Kanpur for research and development in large area flexible electronics that serves as the foundation for the development of domestic industry.

The centre is in the early stages of laying the foundation for promotion of manufacturing of flexible electronics in India. What will it take to create the eco-system of equipment suppliers, materials suppliers, requisite unit processes and components needed for domestic manufacturing?

## Speakers Biodata

Dr. Sudhindra Tatti has a B. TECH from Indian Institute of Technology, Kharagpur. He obtained his Ph. D in Materials Science from University of Texas at Austin, U.S.A in 1989. He is currently the COO of National Centre for Flexible Electronics (NCFlexE) at IIT Kanpur.

NCFlexE is a joint initiative of the Department of Electronics and Information Technology (DeitY) and IIT Kanpur for promotion of manufacturing of flexible electronics. NCFlexE is facilitating the collaboration opportunities with different entities in India to develop and commercialize these technologies.

Dr. Tatti has over 25 years experience in the semiconductor industry and is a recognized expert in areas of fault diagnostics, yield enhancement and technology transfer. He started his career at Motorola Semiconductor (now Freescale) and has since worked in semiconductor foundries in Thailand and Singapore. He was also involved with Amberwave Systems, an MIT spin-off in Boston pioneering the commercialization of strained silicon technology. He has consulted for many large and small companies across the globe and has worked extensively with a variety of cultures. After almost twenty years abroad (U.S.A, Thailand and Singapore), Dr. Tatti returned to India and set up Pegasus Semiconductor - with a vision to bring solar energy to the masses through adoption of new technologies. He was instrumental in pioneering the efforts to adopt ultra low power consuming LED lamps as a replacement for the conventional CFL lamps.

His interests are in commercialization of new technologies for improving the lives of rural masses – for example affordable healthcare and renewable energy. His mission is to contribute towards widespread adoption of new technologies in India by developing innovative products.

# Theme : Enabling Entrepreneurial Ecosystem in the campus

Speaker

## Prof. L. S. GANESH

Professor,
Department of Management Studies,
Indian Institute of Technology Madras

## Abstract

## Fostering Student-led Start-ups in our Institutions

a) Promoting the entrepreneurial spirit among students

b) Developing an effective Institutional ecosystem for promoting student-led entrepreneurship

c) Providing academic and training programmes to prepare students for launching, growing and sustainingtheir ventures

d) Enabling networking and mutual support systems among the start-ups and with external organizationsand Institutions involved in promoting entrepreneurship;

e) Extending holistic support services to student-led start-ups within the Institution; and

f) Documenting cases histories of student-led entrepreneurial ventures.

## Speakers Biodata

Dr. L. S. Ganesh (LSG) graduated in 1977 in the BE (Hons.) programme in Mechanical Engineering of the Birla Institute of Technology and Science (BITS) at Pilani, Rajasthan. In 1979, he received the M. Tech degree in Maintenance Engineering and Management and a MeritPrize from the Indian Institute of Technology (IIT), Madras.

Since 1987, LSG worked in the Industrial Engineering and Management Faculty at IIT Madras, as Assistant Professor till 1993, then as Associate Professor till December 1996, and then as Professor until April 2004, when the Department of Management Studies was established in the Institute. Later, he served as the Head of the Department of Management Studies at IIT Madras from July 2004 till July 2008.

One of his research students won the "Budding Innovator" award of theNational Research and Development Council, Government of India. Some of his students have won"Best Paper" commendations from the Editorial Boards of reputed international journals, and awards in International and National Conferences, and "First Prizes" in national Entrepreneurship/BusinessPlan competitions.

LSG has been a key member of some national-level projects sponsored by ISRO and MHRD, and also of international projects concerning Integrated Coastal Zone Management sponsored by the World Bankand the UNDP. Professional bodies such as the Confederation of Indian Industry (CII), Indian Societyof Technical Education (ISTE), and the Madras Management Association use his expertise.

LSG has been the prime moving force behind the revival and re-launch in 2005 of the pioneering and unique, research-based MS (Entrepreneurship) programme of IIT Madras, and coordinated it until recently. This programme has witnessed exceptional success by producing young researcher- entrepreneurs who have promoted and conducted their business, in a variety of domains, verysuccessfully. Some of these researcher-entrepreneurs have won prestigious international- and national-level awards for their products/services.

LSG initiated and ably coordinated the Cell for Technology Innovation, Development and Entrepreneurship support (C-TIDES) as the Professor-in- charge. C-TIDES, rechristened as the E-Cell, continues to be the student-led entrepreneurship forum of the Institute.

MAKE IN INDIA

**Speaker**

**Dr. T Prasad**

Associate Professor

NITIE, Mumbai

## Abstract

# A Case of Gandhian learning practice at NITIE, Mumbai

The highlights of the talk are:-

1.0 How we can create entrepreneurial ecosystem in the Campus?

    1.1 Conventional modes of creating entrepreneurial eco systems

    1.2 Innovative pedagogical interventions

2.0 What is ubiquitous and abundant in a college?

3.0 Some of the important PRINCIPLES kept in mind in designing these interventions.

4.0 What are the formal and informal interventions in student educational experience that help to create entrepreneurial mind set?

    4.1 Short term and random interventions : Learning by VOCATION

    4.2 Systematic and Long term interventions – Learning by ENTERPRISE

    4.3 How to seed Student Enterprises in different colleges?

    4.4 Learning through VOCATION and Learning through ENTERPRISE

    4.5 Supportive systems for Student Enterprises

## Speakers Biodata

Dr. T Prasad , Associate Professor holds B com, M Com, and Ph D degrees. Earlier he worked as faculty member @ Osmania University, ASCI, Hyd and XLRI Jamshepur. His students call him Dr. Mandi with love and affection. This is because he makes students learn MBA lessons through Mandi – the Market. Dr. Prasad believes that it is the PEDAGOGY that matters MOST in creating effective learning. Dr Prasad invents educational pedagogies which will help to achieve – Affordable, Inclusive, and Excellent education to one and all . Dr Prasad is well known for his innovative teaching methods - Mandi, Maha mandi, Shanti Mandi, Hamara Dhandha, Student Enterprises which are transforming the learning in B Schools in India. In recent times, his focus is on harnessing the social networking platforms viz., YouTube, Face book and Google Blogs for effective learning. Recognizing his contribution to higher education, Association of Indian Management Schools ( AIMS) and Higher Education Forum has awarded to Dr Prasad - Innovative Pedagogy Awards during 2009 and 2010 and Outstanding Contribution to teaching award. Dr Prasad is Founding member Council for Small Business and Entrepreneurship (CSBE) and also a member of Society for Entrepreneurship Educators (SEE) .His vision of Educated India is : A SELF RELIANT Taleem . .

His vision of Educated India is : A SELF RELIANT Taleem . . Where

Aaj ka Taleem ka karcha, Aaj Ka Taleem Se, Aaj hee Kamana ! Socho- Becho; Becho -Seekho; Seekho- Socho!!/ / -

**Speaker**

## Mr. Nitin G Kulkarni

Director,
Centre for Technolog Innovation & Entrepreneurship,
KLE Technological University, Hubballi ( India)

## Abstract

## Building Entrepreneurial Ecosystem on Campus: Lessons from CTIE@BVB, Hubli

While many institutions are grappling with the idea of integrating entrepreneurship education in their curricula, certain successful models have emerged -especially with the Indian context. With many of these institutions being in tier2-3 cities if India and do not boast a great deal of in-house research, what approach can help them? Can a replicable model be envisaged based on the collective experience?

Which types of interventions have most impact in changing campus culture? How do we measure their relevance and success? Are they scalable? BVB college's experience in designing and delivering experiential courses in entrepreneurship and how that has led to building a business ecosystem on the campus shall be shared.

Technology innovation is a critical base of a healthy economy and universities have a key role in building the critical mass of emerging start-ups that enable job and wealth creation in the region. Is there a process to realize this? How one such model is being leveraged at BVB college Hubli shall be discussed.

## Speakers Biodata

Nitin Kulkarni has a B.S. degree (1984) in Mechanical Engineering from Karnataka University Dharwad, India. He holds a MBA in Human Resource Management from Visvesvaraya Technological University, Belgaum India in 2010. From 1984-2002, he worked in multi-national industries ranging from Machine tools, Aerospace, Tool and Die, Software, Consumer Electronics. His major technology domain was in product development for automotive, aerospace and consumer applications. His last Industry job was at Microsoft Corporation, Redmond, WA, USA, as a Group Engineering Manager responsible for New Hardware Product development.

His academic career started as a lecturer in 2002, during which he took the responsibility of placements at SDM College of engineering and Technology, Dharwad, India. Currently he is the Director at Center for Technology Innovation and Entrepreneurship – (CTIE) at BVB College. He teaches MBA program at the School of Management Studies and Research (SMSR) at BVB College Hubli. He is responsible for building the entrepreneurial culture and strengthen the Business ecosystem at the BVB campus through CTIE.

MAKE IN INDIA

**Speaker**

# Satish Mugulavalli

Co-founder and CEO – Revvx Hardware Accelerator

## Speakers Biodata

Satish Mugulavalli is a technology entrepreneur and investor and is the Co-founder and CEO of Revvx Hardware Accelerator, India's first hardware accelerator focused on helping hardware startups in prototyping, manufacturing and distribution. Reevx have built partnerships with Silicon vendors, Part suppliers, Prototype and high volume EMS vendors to facilitate mass production. Revvx have also built software platforms to help such startup co-innovate with large corporates and find innovative distribution channels for their products. As part of Revvx, he is helping 8 startups build their products and companies. He is also mentoring several early stage high technology Video, IOT and Cloud Infrastructure startups.

He was most recently, Co-founder and Chief Architect of Verismo Networks based out of Bangalore and Silicon Valley. As part of Verismo, he conceptualized and built the industry's first Over-the-top Internet Video platform delivering broadcast and on-demand content directly to a legacy Television.

He has over 20 years of experience in architecting high performance systems in voice, video and data networking products, Internet platforms and services. He has built products and deployed them in more than 150 countries completely out of India. He has demonstrated successfully, the ability to design and architect products from scratch, motivate teams to produce award-winning products and launch startups to competitive positions. He has contributed to standard bodies and consortiums and holds patents in digital media and networking. He career includes leadership roles in Teneoris Networks, Ishoni Networks and Multi-Tech.

He is an engineering degree holder in Computer Science from Mysore University and is a charter member of the Bangalore chapter of TIE. He is also a frequent speaker on high technology startups.

# Theme : Manufacturing Reinvented – Convergence of Technologies

### Speaker
## Mr. Lokesh Payik
General Manager & Head - Global Engineering Solutions
Robert Bosch Engineering and Business Solutions Private Limited

## Abstract
### Industry 4.0

Manufacturers are being propelled to a new age - the next and the fourth Industrial Revolution (Industry 4.0 - The Industrial Internet-led Revolution) at a speed and scale that is unimaginable, yet inevitable. This digital transformation in manufacturing will have huge impacts on both low-cost and high-cost countries and ultimately affect the local and global manufacturing value chain. Technological advances in data storage and processing, clubbed with analytics is set to make industrial machines SMART which will allow them to SEE, HEAR, FEEL, THINK, and MAKE DECISIONS independently. Today the battling questions are - What am I doing now that is different from I4.0? What about ROI, security, and technology obsolescence? Does this mean large scale investments? How will it impact the manufacturing workforce? What is it in for Make in India? Being a student, How to be part of the revolution I4.0 ? This presentation aimed to answer these questions and help you to gain better understanding of Industry 4.0

## Speakers Biodata

Lokesh Payik is the General Manager and Head of Global Engineering Solutions Business at Bosch and responsible for strategic growth in the areas of Industry 4.0 , IoT Technologies, Augmented Reality and Product Development. Lokesh has a decade plus of experience with a proven track record in managing & scaling up business, integrating manufacturing plant , establishing engineering centre and driving strategic initiatives through people leadership. Having joined Bosch through a highly selective Junior Manager Program in the year 2007, Lokesh has worked in different departments spread across engineering , manufacturing and corporate functions in India & Germany. He has an Engineering degree in Automobile from BVB College of Engineering , Hubli, India and MBA from LaTrobe University, Australia.

MAKE IN INDIA
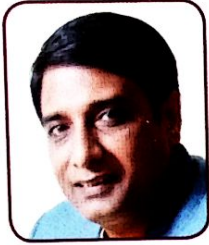
**Speaker**

## Mr. Bahubali Shete

Co-Founder, M/S Connovatech,
Bangalore.

## Speakers Biodata

### Professional Objective

To create world class internet of things products that make our lives better

### Experience

1. 27+ years of industry experience in product development in vast areas of Industry verticals such as Industrial Automation, Robotics, Flight Simulation and Consumer Electronics Started his career with Mysore Kirloskar Limited in 1989 and worked in companies like NELCO, Philips and Tata Elxsi in India as well as Moog Limited in Ireland and USA

2. Spearheaded multiple product developments both for Indian market as well as Global market

3. Built and managed Medium to Large Engineering teams across geographies for product

development

### Entrepreneurship Career

1. Started as CTO and Executive director in Galaxy Intelligentia Pvt.Ltd. for 3 years starting August 2009 and moved out to start his dream company Connovate Technology Private Limited in January 2013. Connovate was formed to create connected innovative products.

2. Has built an excellent team to build the BLE IOT Platform. This platform has lead to multiple products in short span of time.

> - Smart Watch(2011): An example of too early to market, didn't commercialize it.

> - Gecko Tag: Own product launched globally on Indiegogo (crowd funding platform), huge success, backed by Steve Wozniak – Apple co-founder.

> - Gecko Smart Scale: India's first Google Fit Compatible connected smart scale

> - GPS Clock: World's first IoT Smart Clock for enterprise applications

> - Built Hubble – the most successful IoT PaaS solution with half a million subscribers across the globe and reaching one million by March 2016. Launched with Motorola Pet, Baby and Home monitoring products.

3. Looking forward to launch a series of connected products launch in 2016.

**Speaker**

## Mr. Rajiv Bajaj
General Manager – India,
M/S Stratasys, Bangalore.

## Speakers Biodata

Rajiv Bajaj was appointed as General Manager of Stratasys in India in March 2015. With over 18 years of experience in the technology industry, Rajiv leads Stratasys India

team to drive sustainable growth of the 3D printing business in the region.

Prior to this, Rajiv was the Country Manager at Autodesk India and SAARC, heading the Manufacturing Solutions business unit and managing the growth strategy across different industry segments. Under his leadership, Autodesk redefined its strategy for the automotive industry and backed by niche solutions and focused partners, significantly expanded business and thought leadership with the automotive OEM and component supplier verticals. Rajiv has also held positions with leading Product Lifecycle Management (PLM) companies including DassaultSystemes and PTC, playing an instrumental role in sales and channel management.

Rajiv has extensive experience in the manufacturing industry, serving as an expert speaker at industry forums across India, such as the Confederation of Indian Industry (CII), the Indian Machine Tool Manufacturers' Association (IMTMA) and the Global Manufacturing Cluster Vision (GMCV) 2020, driving thought leadership and promoting efficient factory design for manufacturing excellence.

Rajiv completed his Leadership and Strategy program from the Indian Institute of

Management Lucknow and holds a Bachelor degree in Mechanical Engineering.

Rajiv currently resides in Bangalore, India. April 2015

# Theme : Skilling India : Industry and Government Perspectives

Speaker

## Prof. D. N. Rao

Vice President Centurion University of Technology & Management, Odisha

## Abstract

### SKLLING INDIA: GOVERNMENT AND INDUSTRY PERSPECTIVE.

Skill development has become a national priority in the last decade or so in India. While the first wave liberalization ( 1991-200) was mostly fuelled by growth in services, india's economic growth now requires even contribution from all sectors like agriculture, manufacturing and services. While India was aided by a niche segment of English speaking population in services, skill gaps are affecting its growth story now. Skill gaps affect the quality of work, efficiency as well as the cost of delivery of any project.

Skill gaps have been identified across all segments of the industry and even agriculture. Use of more tools and equipments, automation of practices has exacerbated the skill reqruirement. India's HRD system , which is based on the principle of selection and merit, produces rejects at every stage of its cycle. On an average it throws up fifty percent rejects at every stage of its development cycle. While every one talks of demographic dividend, the dividend turns into a loss if the HRD system is going to produce about 50% rejects at the age of 17 years and above. The HRD system is also based on qualifications and not competencies. So often there is mismatch between qualifications and competencies. The pedagogy suffers from too much abstraction and very less hands on learning or experiential learning. Even assessments are based on ability to comprehend through abstraction.

The industry has been directly impacted by this. It has pushed up effective labour wages, impacted project timelines and affected quality delivery. Skill gaps even in sectors like plumbing, construction, drivers, carpenters ect is acute. This is largely aided and exacerbated by a societal culture that does not place a premium on such skills. Large scale employment in software industry has also impacted student and youth aspirations and has placed a premium on office based jobs.

The industry finds the job seekers, ill equipped with competencies for even the salaries they pay. The youth finds industry not matching their aspirational salaries and expecting too much for too little. Privatisation of higher education has meant costs of education have gone up. As a result, the ROI expectations from entry level jobs have also gone up as most education is now funded though debt.

Many studies have been done by CII, NSDC and consultancy houses on the scale and depth of the problem. The government has been grappling with this problem for the last decade through largely

1. Short term quick fix solutions by funding three months worker training schemes through various government departments. The output of this is expected to fill up the skill gaps in the sub-12,000 pm salary bracket especially in infrastructure, manufacturing and front end services like retail.

2. Long Term reorientation of HRD systems towards competencies. This is being done by developing NSQF( National Skill Qualifications Framework), developing NOS( National Occupational Standards) as well as QPs(Qualification Packs) for every job role. Effort is also done to link competencies with certification. Universities have been mandated to move to the system through a choice based credit system very quickly.

3. Working on rejig of official machinery , trying to get more coordination at the central level between ministries of HRD, Labour and industry. Efforts are also on to reformulate the apprentice scheme to encourage on the job training.

4. Creating a pool of competent and capable training and skilling eco system to scale largely through National Skill Development Corporation ( NSDC).

**The industry is also responding through:**

1. Formation of Sector Skill Councils to work on development of  job roles, competency mapping, qualification packs and assessment system based on competencies

2. Funding quality players in the skill eco system through CSR funds

3. Developing and brokering partnerships with academic institutions in re skilling of faculty, developing of curriculum, industry sponsored labs ect.

However, criticism is leveled against all players for not being able to meet the challenge through adequate response. The scale and quality of response can be questioned. The numbers are nowhere near what has been envisaged. Many skilling organizations have no business models and hence cannot scale. Government schemes are mired in documentation and justification for payment of subsidy and hence do not adequately address quality concerns. Universities are unable to move to competency based systems so quickly.  All in all, the economy is also not throwing up enough decent paying quality jobs, there by demotivating the job seekers.  So the skilling story is now in its adolescence with all its problems exposed and no quick fixes found.

## Speakers Biodata

Dr. D. N. Rao presently Vice President and Co-founder, Centurion University of Technology and Management Co-founder, Gram Tarang group of companies. His education is B.E (Civil) from Osmania University form 1983-1987. Post Graduate Diploma in Management (PGDM) from IIM – Kolkatta form 1987-1989. British Chevening Scholar in Small Enterprise Development, 1995 Ashoka Foundation Scholarship  1991-1993.

His academic experience includes Teaching in small enterprise development, rural development and marketing fields for 12 years Development field practitioner for 25 years . Taught at Xavier Institute of Management, Bhubaneswar.

## Senkathir Selvan Suriaprakasam

EIS Business Head - Fulfillment Excellence

Tata Consultancy Services

## Speakers Biodata

A Bachelor in Mechanical Engineering of 1993 batch from Madras University

Selvan had spent 7.5 years in Core Industries such as SPIC (Southern Petrochemical Industries Corporation Ltd.) and Crompton Greaves Ltd., building Process and Power Plants across India.

As an Inspection and Quality Assurance Manager, had been involved in field inspections, Vendor management and formulating ISO 9000 Systems and procedures for the respective companies.

Selvan has been part of TCS since December 2000.

1. As part of the senior leadership team of TCS' Engineering and Industrial Services business unit, is responsible for Talent Management for the Business unit globally.

2. Has played multiple roles in: Quality Assurance Management, Project Management, Presales and Customer Relationship Management in the past

3. Was part of Core team that established the TCS China operations

4. Has established and built teams in India, China and USA

5. Closely worked with international corporations such as General Electric, Johnson Controls, Robert Bosch and Xerox Corporation

Selvan is on the Talent Council board of NASSCOM's for the Engineering Services Forum, leading the FSIPD (Foundation Skills in Integrated Product Development) program since its inception.

**Speaker**
## Mr. Anand B
General Manager, NTTF, Bengaluru

## Abstract

## National Employability Enhancement Mission (Learn and Earn Model)

Today's competitive world demands trained, certified and skilled manpower to address the challenges of growth and converting them into opportunities.

India has one of the youngest populations in the world with a very large pool of young people in the median age of 25 years. Ironically, most industries in India are currently struggling with scarcity of skilled labor. Although more than 40 million people are registered in employment exchanges, only 0.2 million get jobs.

The current education system does not focus on training young people in employable skills that can provide them with employment opportunities. The Government is therefore strongly emphasizing on upgrading people's skills by providing vocational education and training to them. It has formulated the National Policy on Skill Development and set a target for providing skills to 500 million people by 2022. Various stakeholders are involved in this process.

This presentation shows how the Vocational education could be rolled out successfully in partnership with Industries which is a boon to the needy youth who are otherwise unable to bear the high costs of formal education. The programme is designed based on Germany's Dual Vocational Education system and in India, NTTF is rolling out this programme under LEARN AND EARN model within the framework of National Employability Enhancement Mission (NEEM), a gazette notification by AICTE, GOI. This initiative bridges the gap between the industry and the rural youth by providing skilled manpower thereby enhancing the employability.

## Speakers Biodata

Anand B is a General Manager, Business Devt at India's premier technical training institution, NTTF at Bengaluru. By profession he is an Engineer in Industrial & Production stream from Bangalore University with a post qualification of Executive management program from IIM Bangalore. He comes with over 25 years of experience in various engineering manufacturing industries and currently serving in the education sector. He has rich experience of business interactions with prestigious OEM and Global companies and tier-1 companies.

His current responsibilities include: industry partnering, marketing, business development, public relations and media communication. His interest is in the areas of

Corporate strategies and business development in any engineering field and aspiring to be a renowned thought leader in the field.

# ICEMII - Jan 6-8, 2016, International Conference on Enabling 'Make in India': Challenges and Opportunities for Engineering Education

The aim of the Conference was to bring about greater understanding of the issue involved in Make in India, sharing of world-wide best practices and experiences in this area and evolve a broad framework for the transformative process that enables the initiative.

The conference was inaugurated by
Sri.Manohar Parrikar, Hon. Defence Minister, Government of India,

Keynote address by
Dr. R. Natarajan, Former Chairman AICTE , Former Director, IIT Madras,

Guest of honour
Sri. Prahlad Joshi, Hon. Member of Parliament, Dharwad

Presided by
Dr. Prabhakar Kore
Chairman, KLE Society, Belgaum-India

The themes of the conference are:-
1. Creating Transformative Educational Experience
2. Building Strong Design and Product Realization Skills
3. Facilitating Realistic Production Environment in the Campus
4. Enabling Entrepreneurial Ecosystem in the Campus
5. Manufacturing Reinvented – Convergence of Technologies
6. Skilling India: Industry and Government Perspectives

| Co-Organisor | Sponsors | Collaborators |
| --- | --- | --- |
| | TEQIP | CII — Confederation of Indian Industry |
| IUCEE | | |
| Indo Universal Collaboration for Engineering Education — IUCEE | DASSAULT SYSTEMES | IFEES — International Federation of Engineering Education Societies |
| | | GEDC — GLOBAL ENGINEERING DEANS COUNCIL |

## Case Studies

| 1 | Prof. Devdas Shetty<br><br>Dean, School of Engineering and Applied Science, Professor of Mechanical Engineering, University of the District of Columbia Washington, DC 20008, USA | Case Study on designing and creating smart products through "maker movement" |
|---|---|---|
| 2 | Prof. Lueny Morell , MS, PE<br><br>President, Lueny Morell & Associates &Founder & Director of InnovaHiEd | The Learning Factory "Working Together to Develop Talent for Manufacturing" |
| 3 | Dr. S K Ramesh Ph.D<br><br>Dean, College of Engineering and Computer Science & Professor of Electrical and Computer Engineering, California State University, Northridge, CA 91330-8295 | CSU Northridge Initiatives in Advanced Manufacturing, Entrepreneurship and Innovation |
| 4 | Prof. Wonjong Joo<br><br>Professor Wonjong Kim<br><br>Accreditation of Engineering Education in Korea (ABEEK) | Development and Practices of Innovation Ecosystem in Engineering Education: Role Plays of Universities, Industry, and Government |

Countries across the world have undertaken initiatives similar to 'Make in India', to create jobs and boost their economies. Several efforts have been made by the academic institutions and Universities to contribute to these initiatives in their respective countries. The case studies to be presented in the conference will focus on, sharing of successful practices / models that are evolved by the academic institutions across the world to positively impact similar movements like 'Make in India'

## Registration details

| | |
|---|---:|
| Registered Online | 101 |
| BVB Faculty | 117 |
| Student Exchange Program | 75 |
| Spot Registrations | 17 |
| Sponsors | 2 |
| | 312 |
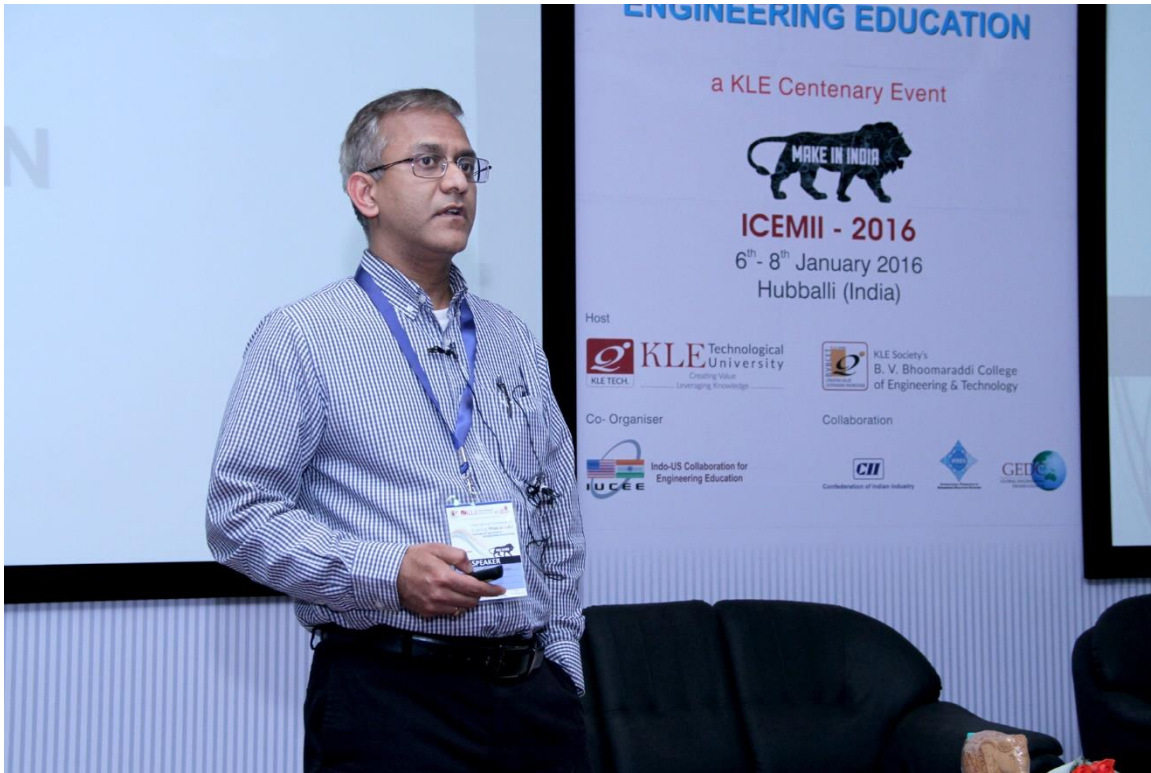
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# ICEMII - Jan 6-8, 2016, International Conference on Enabling 'Make in India': Challenges and Opportunities for Engineering Education

## List of Participants/delegates

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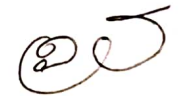
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| 43 | KLE Dr. M.S. Sheshgiri College of Engineering & Technology, Belagavi | | Prabhakar Manage | prabhakarenc@yahoo.com | 3000 | 8792397275 | |
| 44 | DKTE Societys Textile & Engineering Institute, Ichalkaranji | 3 | Ravindra Nemgonda Patil | rnpatil@dktes.com | 3000 | 9421113906 | |
| 45 | DKTE Societys Textile & Engineering Institute, Ichalkaranji | | Prof. Uday A. Nuli | | 3000 | 9850867657 | |
| 46 | DKTE Societys Textile & Engineering Institute, Ichalkaranji | | Prof. Atul J Dhavali | | 3000 | 9226413726 | |
| 47 | BMS college of Engineering, Bengaluru | 1 | Dr.R.JAYAGOWRI | rjayagowri.ece@bmsce.ac.in | 3000 | 9480109958 | |
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# ICEMII - Jan 6-8, 2016, International Conference on Enabling 'Make in India': Challenges and Opportunities for Engineering Education

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## List of Participants/delegates

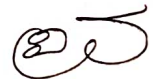| S.No. | Institute Name | | Name of Delegate | Email | Amount | Cell No | Substitute Faculty |
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## List of Participants/delegates

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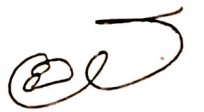| SL.No | Name | Gender | USN | Department | Semester /UG/PG | Contact | Institute |
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| 53 | XIA MIN | female | | | | | |
| 54 | WANG ZHICHAO | male | | | | | |
| 55 | ZHANG MEINI | female | | | | | |
| 56 | QU XIAJIE | female | | | | | |
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| 72 | Abhinandan Burli | | | CTiE | | | |
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| 74 | Anvita Kamat | | | CTiE | | | |
| 75 | Sahana Hegde | | | CTiE | | | |

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| 4 | Automobile | 4. Prof.Tumbal.A.V. |
| 5 | Automobile | 5. Prof.Nagaraj.Ekbote |
| 6 | Automobile | 6. Prof.A.S.Badiger |
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| 8 | Mechanical | 2) Mantesh Choukimath |
| 9 | Mechanical | 3) Vinayak P Khatawate |
| 10 | Mechanical | 4) U P Hosmani |
| 11 | Mechanical | 5) Sudhir Pawaskar |
| 12 | Mechanical | 6) Shreeshail M.L |
| 13 | Mechanical | 7) Shivaprasad M. Muhkhandmath |
| 14 | Mechanical | 8) Basanagouda  Shivalli |
| 15 | Mechanical | 9) Shivanagouda Patil |
| 16 | Mechanical | 10)Sridhar M |
| 17 | Mechanical | 11)Arun Patil |
| 18 | Mechanical | 12)G M Hiremath |
| 19 | Industrial & Production | 1. S B Burli |

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| 24 | Industrial & Production | 6. Praveenkumar Petkar |
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| 27 | Automation & Robotics | 3. Mrs Manjula P.P |
| 28 | Automation & Robotics | 4.Nagaraj B |
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| 32 | MCA | 2) Shivanand Seeri |
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| 34 | MCA | 4) Sunita K. Salimath |
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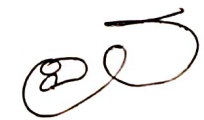
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| 72 | Biotech | 6.Prof.V.S.Hombalimath |
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| 82 | Computer Science | 6.Ms. P .D. Kalawad |
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| 94 | Electrical | 4. Sri. Siddarameshwar H N |
| 95 | Electrical | 5. Ms. Anupama Itagi |
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