



## Indian Institute of Materials Management

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### Professor Ravi Ravindran Annual Endowment Lecture 7<sup>th</sup> Edition on 15<sup>th</sup> April 2023

**Topic: “Future of Mobility” - how is it being shaped by Sustainability, Smart technologies and Supply chains**

**Time: 6.15 pm, Venue: Hotel Parag Adjacent to Copitol, Rajbhavan Road, Bangalore**

**(No entry fees) To register click on this link: <https://forms.gle/bLtw4vRsAvf2PMP9>**



**Dear Members and Supply Chain Professionals,**

Indian Institute of Materials Management, Bangalore is organizing the 7<sup>th</sup> Edition of Professor Ravi Ravindran Endowment Lecture (**Hybrid mode- Free Program**) in honor of Prof. Dr. A. Ravi Ravindran, on Saturday, the 15<sup>th</sup> April 2023 from 6.15 pm to 8.00 pm with dinner.

**Speaker: Dr Shankar Venugopal Vice President, Mahindra & Mahindra Research Valley, Chennai**

The mobility industry (aka automotive industry) is being disrupted by smart new technologies and business models. The new technologies like electric, connected, shared etc are exponentially growing and covering to create cutting -edge mobility solutions. Sustainability has been the key driver for most of the innovations in this space -EVs that have zero tail pipe emission, autonomous vehicles for zero accidents, smart and connected vehicles for zero traffic jams, design of critical components like batteries and motors for recycling and reuse, Micro factories, Giga plants etc.

Effective management of supply chains plays a key role in scaling these technology innovations and realising the dream of sustainable mobility for the future -mitigating the supply risks of critical battery materials like lithium, cobalt etc, supply for rare earth (RE) materials for magnets of the motors, supply of automotive semiconductor electronics (ECU, Displays, sensors, Actuators etc), supply of automotive software etc. The talk is aimed at visualizing future scenarios, building roadmaps and achieving the vision of sustainable mobility for the future.

The speaker has been using design thinking, TRIZ systematic innovation and System dynamics modelling to reduce the complexity and drive fresh thinking in this space.

**Brief Profile of Speaker :**

**Dr Shankar Venugopal Vice President, Mahindra & Mahindra Mahindra Research Valley, Chennai**

Dr Shankar leads technology innovation for the Automotive & Farm services business. He heads the intellectual property and knowledge management functions. He is also the Dean of the Mahindra Technical Academy

Dr. Shankar is passionate about developing sustainable urban mobility solutions and his current interests span across electric vehicles, connected vehicles, autonomous vehicles and precision farming. Prior to joining Mahindra & Mahindra, Shankar has held technology innovation leadership roles at GE, Dow, Honeywell and Cummins. He holds twenty international patents, eight Indian patents and numerous new product innovation awards. He was awarded GE's Edison Inventor Medal early in his career. He has developed a proprietary innovation methodology Innovation FLOW and trained 2000+ inventors and innovators. Shankar obtained a Ph D in Materials Science and a gold medal for the best doctoral thesis from the Indian Institute of Science, Bangalore. He completed his executive management program from the Indian Institute of Management, Bangalore.



**Program Schedule: Venue: Hotel Parag Adjacent to Copitol, Rajbhavan Road, Bangalore**

**06.15 pm: Welcome Address & about IIMM**

**06.25 pm: About Professor Ravi Ravindra Endowment Lecture: by Dr. P. Balasubramanian**

**06.35 pm: Opening Remarks: by Prof. S. Sadgopan, Chairman, BoG, IITDM-Kancheepuram  
Founder Director, IIIT-Bangalore**

**06.45 pm: Address by Speaker: Dr Shankar Venugopal Vice President, Mahindra & Mahindra Research Valley, Chennai**

**07.45 pm: Question and Answers**

**08.00 pm: Vote of Thanks**

**08.00 pm: Dinner**

**Background:**



**Dr. A. "Ravi" Ravindran recently retired from Penn State University USA. He has been a Professor of Industrial and Manufacturing Engineering and also the Chair of Enterprise Integration Consortium at the University. Formerly, he was a Professor of Industrial Engineering at the University of Oklahoma and at Purdue University. He has authored six books and won numerous Best Teacher Awards in his career spanning five decades.**

**He has been associated with IIMM for its Supply Chain Management events like SCALE, NATCOM from year 2000 and has conducted advanced workshops. He has guided more than 30 graduate students through their Ph.D. programs as the Principal Guide.**

**Students of Professor Ravindran came together and organized a symposium in his Honour in 2015 at Bangalore. This Endowment Lecture series has emanated from the above symposium.**

**The first six lectures were delivered by Dr.Sumant Jha, Vice President at CISCO, Singapore, Dr. Abhijit Deshmukh Head of Industrial Engineering at Purdue University , USA, Dr Ashutosh Misra Director Advanced Analytics and Big Data at Philips, Prof. Vittal Prabhu, Charles and Enid Schneider Faculty Chair, Penn State University USA ,Dr. Rohini Srivathsa, National Technology Officer, Microsoft India and Professor Deshmukh S.G. IIT, Delhi**

**All SCM Professionals, members and students are requested to participate in this programme.**

Regards,

**Dr. P. Sengottaiyan**

**Branch Chairman**