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Indian Institute of Materials Management

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08.03.2023

Professor Ravi Ravindran Annual Endowment Lecture 7th Edition on 15th April 2023

Topic: “Future of Mobility” - how is it being shaped by Sustainability, Smart Technologies, and Supply Chains

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

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

To register click on this link: <https://forms.gle/bLtwv4vRsAvf2PMP9>

Dear Members and Supply Chain Professionals,

Indian Institute of Materials Management, Bangalore is organizing the 7th Edition of Professor Ravi Ravindran Endowment Lecture (Hybrid mode- Free Program) in honour of Prof. Dr. A. Ravi Ravindran, on Saturday, the 15th April 2023 from 6.15 pm to 8.00 pm. The event is followed by dinner.

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 design of critical components like batteries and motors for recycling and reuse, Micro factories, Giga plants etc.

Effective management of supply chain 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 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

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.



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

06.15 pm: Welcome Address & about IIMM

06.25 pm: About Professor Ravi Ravindra Endowment Lecture: by Dr. P. Balasubramanian, Sponsor Member, Governing Board, Aqua MAP, Water Management COE at IIT Madras

06.35 pm: Opening Remarks: by Prof. S. Sadagopan, Chairman, BoG, IIITDM-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

08.10 pm: Dinner

Background:



A. Ravi Ravindran is an Emeritus Professor and former department head of Industrial and Manufacturing Engineering at the Pennsylvania State University. He has been a Professor at Penn State since 1997. Formerly, he was a faculty member in the School of Industrial Engineering at Purdue University for 13 years (1969-82) and at the University of Oklahoma for 15 years (1982-97). At Oklahoma, he served as the Director of the school of Industrial Engineering for 8 years and as the Associate Provost of the university for 7 years with responsibility for budget, personnel and space for the academic area. He holds a B.S. in Electrical Engineering with honors from BITS, Pilani, India. His graduate degrees are from the University of California, Berkeley, where he received an M.S. and a Ph.D. in Industrial Engineering and Operations Research. His research interests are in multiple criteria decision-making, financial engineering, healthcare delivery systems and supply chain optimization.

Dr. Ravindran has published 9 books (*Operations Research, Engineering Optimization, Handbook of Operations Research & Management Science, Operations Research Methodologies, Operations Research Applications, Supply Chain Engineering, Multiple Criteria Decision Making in Supply Chain Management, Big Data Analytics Using Multiple Criteria Decision-Making Models, and Service Systems Engineering & Management*) and more than 150 journal articles in operations research. His text book on *Supply Chain Engineering* received the Institute of Industrial and Systems Engineers (IISE) *Book-of-the-Year* award in 2013. His book on *Service Systems Engineering & Management* received the IISE's *Book-of-the-Year* award in 2019. The second edition of the *Supply Chain Engineering* book will be forthcoming in 2023. He is a Fellow of IISE and a Fulbright Fellow. In 2001, he was recognized by IISE with the *Albert G. Holzman Distinguished Educator* award for significant contributions to the industrial engineering profession by an educator. In 2013, he received the *Outstanding Teaching* award in the College of Engineering from the Penn State Engineering Alumni Society. He also received the *Excellence in Teaching* award from the Logistics and Supply Chain Division of IISE in 2017. He has been a consultant to AT&T, CNH America, General Motors, IBM, Kimberly Clark, General Electric, U.S. Department of Transportation, the Cellular Telecommunications Industry Association and the U.S. Air Force.

The first six endowment 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