



ASM INTERNATIONAL PUNE CHAPTER

Invites you for Technical Talk on

**" Rising Smart Intelligent Materials in Design
for Future Generation Vehicles"**

by

Mr Avinash Arankalle

Venue: ASM Zoom Group VC Facility

Date: Thursday, 25th September 2025 @ 07:00pm.

Mr. Arun Adiverekar
Chairman Technical Program

Mr. D. G. Chivate
Chairman

Mrs. Ruta Barve
Secretary

About the Program:

Logging into Zoom	7:00pm - 7:10pm
Welcome & Introduction of Speaker	7:10pm - 7:15pm
Technical Presentation	7:15pm – 8:00pm
Q &A Session	8:00pm - 8:15pm
Vote of thanks	8:15pm – 8:20pm



Mr. Avinash Arankalle

About the Speakers:

Mr. Avinash Arankalle is M Tech from IIT, Mumbai and MBA from IMDR, Pune.

- ❖ He is in the auto industry for over 45 years and in the domain of specialization in the – Selection of sustainable advanced materials, SoC / REACH-SVHC design for ELV, Failure analysis, Testing & characterization.
- ❖ He is a former executive from ARAI, Pune and set up state-of-the-art materials laboratory at Pune and Forging Industry Division at Chakan and research & validation lab for quick connector performance testing at A Raymond, Chakan.
- ❖ One of the founder members of ASM International Pune Chapter and was Chairman for the Education Committee.
- ❖ Represented ARAI in formulating automotive Indian standards (AIS) and National standards with BIS. Designed and developed FRP leaf spring and propeller shaft for LCV.
- ❖ Presently working as an adviser and faculty in the engineering materials.

About the Topic:

The topic is " **Rising Smart Intelligent Materials in Design for Future Generation Vehicles** "

Technical Talk will cover:

- What are smart materials? – Shape Memory Alloys (SMA), Piezoelectric materials, Electro-Magneto Rheological Materials, Electroactive Polymers (EAP), Optical fibers, MEMS, Nanomaterials – CNT, Graphene and Nano-composites.
- Paradigm from component engineering to multi-functional engineering through material design concepts.
- Key drivers and benefits Of Smart Material developments.
- Potential future applications