



## ASM International Bengaluru Chapter

Cordially invite you to ASM Online Technical Talk

**Titled**

# **“Kolsterising® - Low Temperature Surface Hardening of Stainless Steel and high Ni- alloy components”**

BY

**Dr. Shankar Venkataraman**

Sales Manager, Bodycote Specialist Technologies,  
Düsseldorf, Germany

***Date & Time: 24.06.2023, Saturday at 5:00 pm IST***

***Zoom Link:***

<https://us02web.zoom.us/j/81353015940?pwd=Wk5mWGRxVy9saUJBMzBYRzhvVWlkUT09>

***Zoom Meeting ID: 813 5301 5940***

***Passcode: ASMBLR***

Mrs. Jyothi Sriram  
Chairperson ASM (I),

Mr. Prakash Balasubramanian  
Secretary ASM (I),

**Chapter Office Address:**

**ASM (I) Bangalore Chapter,**

A-145, 3<sup>rd</sup> Cross, 1<sup>st</sup> Stage, Peenya Industrial Area, Bangalore-58  
Telephone: 080-2839 5888/2839; E-mail: [asmblr2015@gmail.com](mailto:asmblr2015@gmail.com)

Time	Program Outline
4.40-4.45 pm	Login in Through ZOOM
4.45-5.00 pm	Networking with participants and speaker
5.00-5.02 pm	Welcome Speech by Chairperson
5.02-5.05 pm	Introduction of the Speaker by Secretary
5.05-6.20 pm	<b>Talk by Speaker</b>
6.20-6.30 pm	Q & A
6.30-6.32 pm	Vote of Thanks by Secretary and Log off

## ABOUT THE SPEAKER



**Dr. Shankar Venkataraman**

### Brief profile

=====

Dr. Shankar Venkataraman is the Sales Manager for Bodycote Specialist Technologies in Düsseldorf, Germany. He is a metallurgist and holds a doctorate from the Dresden University of Technology in Dresden, Germany. He has experience in the application engineering of heat and corrosion resistant stainless steels and high nickel containing alloys for various industrial applications and has authored more than 35 publications. He is a professional member of AMPP (formerly NACE) as well as the German Corrosion Society (GfKorr e.V.).

### Abstract of the Lecture

=====

Stainless steels and high nickel containing alloy components find numerous applications in various industrial sectors due to their superior corrosion resistance as compared with carbon and low alloy steels. However, they fare poorly in terms of their tribological properties. Surface modification by low temperature thermochemical diffusion enables realizing a hard surface without loss of corrosion resistance. This leads to improved wear resistance, fatigue resistance as well as galling resistance and thus expands the application envelope for stainless steels. This online technical talk shall detail the metallurgical feature responsible for this functionality. Applications where this approach has been successfully used by the industry shall be also highlighted.

---

#### SUSTAINING MEMBERS OF ASM (I) BANGALORE CHAPTER

---



Spectrum Tool Engineers Pvt Ltd



Lakshmi Vacuum Technologies

---