Dr. MEENU SRIVASTAVA

Senior Principal Scientist

Surface Engineering Division

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Education:

Ph.D. (2016) on "High temperature oxidation and corrosion performance of electrodeposited NiCo-aluminide and NiCo-CrAlY composite coatings", Dept. of Materials Science and Metallurgical Engineering, National Institute of Technology, Tiruchirappalli, India.

M.E. (1999) Materials Science, National Institute of Technology, Tiruchirappalli, India

M.Sc. (1996) Lucknow University, Lucknow, India.

B.Sc. (1994) Holy Cross College (Affiliated to Bharathidasan University), Tiruchirappalli, India.

Date of Birth : 21 Dec 1974

Professional Experience:

Position	**Period**	**Laboratory/Institute**
Senior Principal Scientist	29 April 2018 – till date	CSIR - National Aerospace Laboratories, Bangalore
Principal Scientist	29April 2013 – till date	CSIR - National Aerospace Laboratories, Bangalore
Senior Scientist	29April 2008 – 28April 2013	CSIR - National Aerospace Laboratories, Bangalore
Scientist	28April 2004 – 28April 2008	CSIR - National Aerospace Laboratories, Bangalore
Research Associate	March2000 – April 2004	National Institute of Technology, Tiruchirappalli

Research Interests:

I have been working for more than a decade on the development of coatings for various applications:

- Wear-ressitant electrodeposited composite coating for rotary and reciprocating engines.
- Eco-friendly replacement for cadmium coating and chromic-acid free anodization for aerospace applications.
- Nanocrystalline Nickel Alloys and Composite Coatings for Wear and Corrosion resistance applications

- Thermally sprayed coatings by HVOF technique as replacement for hard chrome coating like WC-Co-Al_2O_3, Ni-YSZ coating system for wear/erosion resistance and aluminides and high entropy alloy bond coat for high temperature applications.
- Thermally sprayed corrosion protective coatings on aluminium and magnesium alloys by low pressure cold spray process.

Awards

1. Received the **CSIR-NAL Outstanding Performance award 2023** for the work on Development and CEMILAC certification of Zinc-Nickel Plating process as an alternate to toxic cadmium for aerospace components"
2. Bestowed with the prestigious **N M Sampat Award** 2017 by The Electrochemical Society of India for her significant contributions in the field of Metal Finishing.
3. **Best Technical Paper Award** sponsored by **Mahindra & Mahindra Ltd**. on "Wear resistant and fuel efficient Ni-Co based composite coating for engine cylinder application" in the Symposium on International Automotive Technology SIAT – 2017 at ARAI, Pune, 18-21 Jan.
4. CSIR-NAL **Best Women Scientist Award** in Research for the year 2012 – 2013 for the research work carried out on the "Development of Composite Coatings for Wear resistant and High Temperature Applications".
5. **Best paper presentation award** at 23rd International Conference on Surface Modification Technologies (SMT 23) at Mamallapuram, Chennai, India, 2-5Nov, SMT-23, 2009
6. **Third Best paper presentation award** at National Seminar on Science and Technology of Advanced Engineering Materials, IIM Trivandrum, Feb 20-21, 2003.

Patents	:	3 Nos (2 granted 1 Filed)
Technology Development	:	2 Nos. Electrodeposited wear and Corrosion- resistant coatings for aerospace applications
List of Publications	:	35 Nos in Peer reviewed International Journals & 20 Nos Conference Proceedings
Guidance /Training (M.Tech./B.Tech.)	**:**	M.Tech. 20; B.Tech. 09

Fellowship/Membership of Professional Bodies :

1. Life Member, Electrochemical Society of India, Bangalore
2. Life member, Indian Society for Advancement of Materials and Process Engineering, Bangalore.