

ASM Indianapolis Chapter 3<sup>RD</sup> Annual

SPRING CONFERENCE

On Special Processes

Conference  
Program

FEB 10th, 2023: Rolls-Royce UAW Training Center Auditorium

2601 W Raymond St, Indianapolis, IN 46241

Welcome from ASM Indianapolis Chapter <i>Joel Davis, Rolls-Royce Corporation</i>	8:00 AM
The Journey to Zero Defects in Special Processes'. <i>Ann Bolcavage, Rolls-Royce Corporation</i>	8:15 AM
Bulk Strengthening of High Temperature Alloys via Internal Nitridation. <i>Mike Fahrman, Haynes Intl.</i>	8:45 AM
Advanced Carbide Wear Materials for Improved Corrosion and Oxidation Resistance. <i>Bill Jarosinski, Linde</i>	9:15 AM
Coffee Break	9:45 AM
Thin Film Coatings in Fuel Systems. <i>Eric Cantrell, Cummins</i>	10:00 AM
Sustainable and Production-friendly Corrosion Resistant Coatings. <i>Mark Perpall, Linde</i>	10:30 AM
Hex-Chrome-Free Aluminum Sacrificial Paint Qualification Results (Success!). <i>Brad Wiley Rolls-Royce Corporation</i>	11:00AM
Lunch Break	11:30 AM
Poster Session	12:00 PM
Laser Cladding: The Other Additive Manufacturing Process. <i>Scott McLaughlin, McLaughlin &amp; Associates</i>	1:00 PM
How the process gas can improve the process reliability during Laser Powder Bed Fusion. <i>Pierre Forêt, Linde</i>	1:30 PM
An effective and rapid integration of electrical components onto flexible printed electronics via non-destructive NIR-assisted heating and soldering. <i>Venkat Kasi, Purdue University</i>	2:00 PM
Cold Atmospheric Plasma Deposition of Conductive Antibacterial Coatings for Wearable Devices. <i>Ulisses Heredia Rivera, Purdue University</i>	2:30 PM
Thermomechanical Durability of YSZ Thermal Barrier Coatings Deposited on Wrought and Additively Manufactured Nickel Base Superalloy Substrates. <i>Jing Zhang, IUPUI</i>	3:00 PM
Break	3:30 PM
A model-based investigation of spatial distributions of residual stress induced by patterned-peening of a structure. <i>Langdon Feltner, Purdue University</i>	3:45 PM
2D transition metal carbide MXenes: A new opportunity for materials processing in Indianapolis. <i>Babak Anasori IUPUI</i>	4:15 PM
Validation of Electro-slag Remelting (ESR) Process Simulations for HAYNES® 282® Slab Ingots. <i>Ramanathan Krishnamurthy, Haynes Intl.</i>	4:45 PM
Networking Social	5:30 PM