



**SCHEDULE - as of July 19, 2022 (subject to change)**

**All events will be held at the Ernest N. Morial Convention Center, unless otherwise noted**

**MONDAY, SEPTEMBER 12, 2022**

7:00 AM	5:00 PM	<b>CONFERENCE REGISTRATION OPEN (Hall F Foyer)</b>
11:30 AM	1:30 PM	<b>ASM LEADERSHIP AWARDS LUNCHEON (Hilton/St. James Ballroom - ticketed event)</b>
4:00 PM	5:00 PM	<b>ASM 109TH ANNUAL BUSINESS MEETING (Room 279-280)</b>
7:00 PM	10:00 PM	<b>ASM FELLOWS INDUCTION CEREMONY (Hilton/St. James Ballroom - ticketed event)</b>

**TUESDAY, SEPTEMBER 13, 2022**

7:30 AM	5:30 PM	<b>REGISTRATION OPEN (Hall F Foyer)</b>			
8:00 AM	8:05 AM	<b>WELCOME/OPENING REMARKS:</b> William Lenling, President, ASM Thermal Spray Society (Room 265-266)			
8:05 AM	8:45 AM	<b>KEYNOTE SESSION:</b> Cold Spray Technology in Nuclear Energy Applications, Kumar Sridharan, University of Wisconsin (Room 265-266)			
9:00 AM	5:30 PM	<b>EXHIBIT HALL OPEN (Hall F)</b>			
9:00 AM	10:00 AM	<b>BREAKOUT SESSIONS (Rooms 265-266 and 267-268)</b>			
		<b>TRACK 1: NORTH AMERICAN COLD SPRAY CONFERENCE (Room 265-266)</b>		<b>TRACK 2: NEW AND EMERGING MARKETS FOR THICK FILMS &amp; COATINGS: UNCONVENTIONAL USES OF THERMAL SPRAY (Room 267-268)</b>	
9:00 AM	10:00 AM	<b>EMERGING APPLICATIONS</b> <b>Session Chair:</b> <b>Charles Kay, Hannecard Roller Coatings, Inc. / Chair, NACSC 2022</b>		<b>MARKETS AND APPLICATIONS I</b> <b>Session Chair:</b> <b>John Koppes, TST Engineered Coating Solutions / Co-Chair NEM-TS 2022</b>	
9:00 AM	9:30 AM	Cold Sprayed W and W-CR Coatings for Fusion Applications	Jan Cizek, Institute of Plasma Physics of the Czech Academy of Sciences, Prague	Advanced Thermal-sprayed Coatings for Reinforced Polymer Composite Structures	André McDonald, University of Alberta
9:30 AM	10:00 AM	CGS for Jumbo sputtering target production	Aleš Herrmann, SAFINA	Suspension Plasma Spraying: Recent Developments and Applications	Christian Moreau, Concordia University
10:00 AM	10:30 AM	<b>BREAK WITH EXHIBITORS (Hall F - TSS Pavilion)</b>			
10:30 AM	12:00 PM	<b>BREAKOUT SESSIONS (Rooms 265-266 and 267-268)</b>			
10:30 AM	12:00 PM	<b>APPLICATIONS I</b> <b>Session Chair:</b> <b>Kumar Sridharan, University of Wisconsin</b>		<b>MARKETS AND APPLICATIONS II</b> <b>Session Chair:</b> <b>To Be Announced</b>	
10:30 AM	11:00 AM	A Cost-Effective Manufacturing and Repair Process for Structural, Low-Carbon Steel Components Using CSAM	Luc Pouliot, Polycontrols Technologies	Thermal Spray Coatings Application and Challenges in Semiconductor Industry	Yikai Chen, Applied Materials
11:00 AM	11:30 AM	Cold Spray as an Additive Manufacturing Process	Peter King, CSIRO: Commonwealth Scientific and Industrial Research Organization	Development of Methods for Thermal Spray Deposition of Laminated Ceramic/Metal Molten Metal "Hot-Shot" Pour Tubes	Iver Anderson, Ames Laboratory
11:30 AM	12:00 PM	From repair to additive manufacturing: the fatigue challenge of cold spray	Mario Guagliano, Politecnico di Milano	Warm Spray Metallic Coating Development and Additive Manufacturing Using a Miniaturized Spray System	Alan Burgess, SprayWerk Technologies, Inc.

12:00 PM	1:30 PM	LUNCH WITH EXHIBITORS (Hall F - TSS Pavilion)			
1:30 PM	3:00 PM	BREAKOUT SESSIONS (Rooms 265-266 and 267-268)			
1:30 PM	3:00 PM	FUNDAMENTALS / R&D I Session Chair: To Be Announced		POWER GENERATION Session Chair: Sanjay Sampath, Stony Brook University	
1:30 PM	2:00 PM	Kinetic Spraying of Materials with Limited Ductility	Thomas Klassen, Helmut-Schmidt-University	Thermal Spray: An Enabling Technology for Metal-Supported Solid Oxide Fuel Cells	Luc Leblanc, Cummins
2:00 PM	2:30 PM	Diagnostics and characterization of cold-sprayed metallic coatings for repairing applications	Heli Koivuluoto, Tampere University of Technology	Coatings for Increased Efficiency in Compression Ignition Engines	John Saputo, Stony Brook University
2:30 PM	3:00 PM	Microstructure-dependency of Mechanical Properties and Failure of Low-Pressure Cold-Sprayed Tungsten Carbide-Nickel Metal Matrix Composite Coatings	André McDonald, University of Alberta	Suspension Plasma Spray Coatings for Emerging Applications	Nicolaie Markoscan, University West
3:00 PM	3:30 PM	BREAK WITH EXHIBITORS (Hall F - TSS Pavilion)			
3:30 PM	4:30 PM	BREAKOUT SESSIONS (Rooms 265-266 and 267-268)			
3:30 PM	4:30 PM	APPLICATIONS II Session Chair: Andre McDonald, University of Alberta		BIOLOGICAL APPLICATIONS Session Chair: To Be Announced	
3:30 PM	4:00 PM	Cold-Sprayed Metal Matrix Composites for High Temperature Wear Applications	Richard Chromik, McGill University	Design and thermal spray construction of biological surfaces for marine ecological restoration	Hua Li, Chinese Academy of Sciences
4:00 PM	4:30 PM	SST Advances in Non-Pressurized Powder Feeding Systems	Julio Villafuerte, SST Centerline, Ltd.	Thermal Spraying for Medical Implants: Innovations in Coating Polymers and Ceramics to Replace Metals	Simon Berner, Medicoat
4:30 PM	5:30 PM	EXHIBITOR WELCOME RECEPTION / EMERGING PROFESSIONAL STUDENT POSTER COMPETITION (Hall F - TSS Pavilion)			
6:00 PM	9:00 PM	ASM ANNUAL AWARDS RECEPTION AND DINNER (Hilton/St. Charles Ballroom-ticketed)			
9:00 PM	11:00 PM	ASM PRESIDENT'S RECEPTION (Hilton/St. James Ballroom)			
WEDNESDAY, SEPTEMBER 14, 2022					
7:30 AM	5:00 PM	REGISTRATION OPEN (Hall F Foyer)			
8:00 AM	8:05 AM	OPENING REMARKS: Rogerio Lima, Vice President, ASM Thermal Spray Society (Room 265-266)			
8:00 AM	8:45 AM	KEYNOTE SESSION: Mitochondrial Generator Development and Production for Powering Sensors, Bertrand Jodoin, University of Ottawa (Room 265-266)			
9:00 AM	5:00 PM	EXHIBIT HALL OPEN (Hall F)			
9:00 AM	10:00 AM	BREAKOUT SESSIONS (Rooms 265-266 and 267-268)			
		TRACK 1: NORTH AMERICAN COLD SPRAY CONFERENCE (Room 265-266)		TRACK 2: NEW AND EMERGING MARKETS FOR THICK FILMS & COATINGS: UNCONVENTIONAL USES OF THERMAL SPRAY (Room 267-268)	
9:00 AM	10:00 AM	APPLICATIONS III Session Chair: To Be Announced		MARKETS AND APPLICATIONS III Session Chair: Andrew Vackel, Sandia National Laboratories / Co-Chair NEM-TS 2022	
9:00 AM	9:30 AM	Development of high performance copper-based cold spray antiviral coatings for high touch surfaces in public infrastructures	Eric Irissou, National Research Council	Axial Plasma Sprayed Ceramic coatings for Semiconductor Applications	Zhaolin Tang, Northwest Mettech Corporation
9:30 AM	10:00 AM	Emerging Industrial Opportunities for Cold Spray	Aaron Nardi, VRC Metal Systems	Presentation title coming soon!	Jeff Brogan, Mesoscribe Technologies

10:00 AM	10:30 AM	<b>BREAK WITH EXHIBITORS (Hall F - TSS Pavilion)</b>			
10:30 AM	12:00 PM	<b>BREAKOUT SESSIONS (Rooms 265-266 and 267-268)</b>			
10:30 AM	12:00 PM	<b>FUNDAMENTALS / R&amp;D II</b> Session Chair: <b>To Be Announced</b>		<b>NOVEL FLAME &amp; COLD SPRAY APPLICATIONS</b> Session Chair: <b>Bertrand Jodoin, University of Ottawa</b>	
10:30 AM	11:00 AM	Characteristics of additively manufactured cold spray deposits after in-process densification	Rocco Lupoi, Trinity College, Dublin	Cold Spray Additive Manufacturing of Magnetic Materials for Electric Motors: Opportunities & Challenges	Jean-Michel Lamarre, National Research Council of Canada
11:00 AM	11:30 AM	Strategies to Improve Adhesion Strength of Cold-Sprayed Coatings	Harpreet Singh, Indian Institute of Technology Ropar	Cold Spray as Structural Repair Technology in Civil Aviation Industry - Fatigue Testing Overview	Domenico Furfari, Airbus Operations GmbH
11:30 AM	12:00 PM	Recent Advances in Liquid Cold Spray (LCS)	Christian Moreau, Concordia University	Thermally Sprayed Coatings for Anti-Icing Applications	Heli Koivuluoto, Tampere University
12:00 PM	1:30 PM	<b>LUNCH WITH EXHIBITORS (Hall F - TSS Pavilion)</b>			
1:30 PM	3:00 PM	<b>BREAKOUT SESSIONS (Rooms 265-266 and 267-268)</b>			
		<b>PROCESS</b> Session Chair: <b>Jan Cizek, The Czech Academy of Sciences</b>		<b>AEROSOL DEPOSITION</b> Session Chair: <b>To Be Announced</b>	
1:30 PM	2:00 PM	Advancements in Cold Spray	Peter Richter, Jr., Impact Innovations GmbH	Dry Aerosol Deposition (DAD) to Build Microwave Dielectric Ceramics with Metallization	Paul Fuierer, New Mexico Tech
2:00 PM	2:30 PM	Cold Spray Measurements: A Brief Presentation	Jean-Philippe Gagnon, Telops	Aerosol deposition of thermographic phosphors for non-contact, simultaneous temperature and strain measurements	Shannon Murray, Sandia National Laboratories
2:30 PM	3:00 PM	Engineered cermet feedstock powder development for high-pressure cold spray additive manufacturing	Gobinda Saha, University of New Brunswick	The architecture of dense/porous hybrid coatings by enhancing fine solid particle impaction with a transient plasma jet	Kentaro Shinoda, National Institute of Advanced Industrial Science and Technology
3:00 PM	3:30 PM	<b>BREAK WITH EXHIBITORS (Hall F - TSS Pavilion)</b>			
3:30 PM	4:30 PM	<b>BREAKOUT SESSIONS (Rooms 265-266 and 267-268)</b>			
3:30 PM	4:30 PM	<b>APPLICATIONS IV</b> Session Chair: <b>Charles Kay, Hannecard Roller Coatings, Inc. / Chair, NACSC 2022</b>		<b>CORROSION IN NUCLEAR INDUSTRY</b> Session Chair: <b>Andrew Vackel, Sandia National Laboratories / Co-Chair NEM-TS 2022</b>	
3:30 PM	4:00 PM	Corrosion-resistant yet sacrificial metallic coatings with an ability to release inhibitor on demand	Rajeev Gupta, North Carolina State University	ICME development of a cold spray enabled corrosion resistant bimetallic structure for nuclear reactors	Pin Lu, QuesTek
4:00 PM	4:30 PM	Kinetic Metallization of Heavy Metal Free Materials for Corrosion and Wear Resistance	Ralph Tapphorn, Inovati	Industrialization of Cold-Sprayed Copper Coatings for Corrosion Protection of Canada's Used (Nuclear) Fuel Containers	Dominique Poirier, National Research Council of Canada
6:00 PM	9:00 PM	<b>OFFSITE NETWORKING EVENT (Mardi Gras World-ticketed)</b> - Walking distance from convention center or transportation provided to/from Hilton New Orleans Riverside			

