



RF-ICP Workshop - Optional Workshop - Wednesday, September 16, 2026

Time		Activity	Presenter
12:00		REGISTRATION	
12:45	13:00	WELCOMING REMARKS: Radek Musalek, Tomas Tesar, Jan Cizek, IPP	
RF-ICP Workshop - Session I			
13:00	13:30	A Novel Design of Radio Frequency Inductively Coupled Plasma (RF-ICP) torch and it applications for Coatings	Javad Mostaghimi, University of Toronto
13:30	14:00	A Decade of RF-ICP Plasma Spraying at IPP Prague: From System Modifications to Advanced Applications	Jakub Klecka, IPP Prague
14:00	14:30	Computational study to capture flow dynamics in a DCP-jet-assisted RF ICP torch	Masaya Shigeta, Tohoku University
14:30	15:00	Advanced Materials Synthesis by Radio-Frequency (RF) Thermal Plasma Technologies	Soucy Gervais, University of Sherbrook
15:00	15:30	REFRESHMENT BREAK	
RF-ICP Workshop - Session II			
15:30	16:00	To Be Announced	Kentaro Shinoda, AIST
16:00	16:30	RF Induction Thermal Plasma: From Materials Synthesis to Surface Engineering	François Gitzhofer, Université de Sherbrooke
16:30	17:00	Unlocking functional materials synthesis via insights into RF inductively-coupled thermal plasmas	Jocelyn Veilleux, Université de Sherbrooke
17:00	17:30	How ICP Enables Material “Miracles” in Research and Industry	Bochen Alternberend, Tekna
17:30		RF-ICP Laboratory Tour	



Thursday, September 17, 2026

Time		Activity	Presenter
8:00		REGISTRATION	
8:00	10:00	Exhibitor - Set Up	
8:00	10:00	Poster Session - Set Up	
8:45	9:00	WELCOMING REMARKS: Radek Musalek, Tomas Tesar, Jan Cizek, IPP	
9:00	10:00	KEYNOTE PRESENTATION: Liquid Feedstock Plasma Spray – Past, Present, Future?	Nicholas Curry, Northwest Mettech Corp
10:00	10:20	Refreshment Break with Exhibitors & Poster Session	
Fundamentals & Modeling Chair:			
10:20	10:50	Progress in modelling solution precursor thermal spray	Ali Dolatabadi, University of Toronto
10:50	11:20	The Effect of Plasma Gas Composition on Transport Properties, Feedstock Treatment, and Torch Dynamics Using a Spraying Torch with Axial Suspension Injection	Georg Mauer, Forschungszentrum Jülich GmbH
11:20	11:50	Advanced modelling of Suspension Plasma Spraying: First Steps Toward Developing a Digital Twin	Vincent Rat, Université de Limoges
11:50	13:30	LUNCH WITH EXHIBITORS <i>Sponsored By Alloy Coating Supply</i>	
Hybrid and Emerging Processes Chair:			
13:30	14:00	Suspension Plasma Spray Coatings for Biomedical Applications	Nicolaie Markocsan, University West
14:00	14:30	Hybrid plasma spraying: lessons learned and future prospects	Tomas Tesar, Institute of Plasma Physics CAS
14:30	15:00	From Roughening to Engineered Interfaces: Can Laser Texturing Unlock the Full Potential of Thermal Spraying?	Pawel Sokolowski, Wroclaw University of Technology
15:00	15:20	Refreshment Break with Exhibitors & Poster Session	
15:20	16:20	Lab Tours / IPP Department of Materials Engineering Labs Onsite: Main Workshop Hall of IPP / Dept. of Mater. Eng. Labs Offsite: WSP-H Sprayshop	
18:30	21:30	Networking Event (To Be Determined)	



Friday, September 18, 2026

Time		Activity	Presenter
8:00		REGISTRATION	
8:00	8:50	Women in Thermal Spray (WiTS) at TS4E	
8:50	9:00	WELCOMING REMARKS: Radek Musalek, Tomas Tesar, Jan Cizek, IPP	
9:00	10:00	Thermally Sprayed Environmental Barrier Coatings in Industry and Academia: The Barriers to Industrialization and Bridging the Gap Between Innovative Research and Full-Scale Production	Edward Gildersleeve, GE Aerospace Research
10:00	10:20	Refreshment Break with Exhibitors & Poster Session	
Thermal & Environmental Barrier Coatings (TBCs/EBCs)			
Chair:			
10:20	10:50	Manufacturing APS YbDS-based EBCs: Insights on Crystallization and Mechanical Behaviour	Rogerio Lima, National Research Council Canada - NRC
10:50	11:20	Deposition and Assessment of Suspension-Sprayed TBCs on Different Bondcoats under Thermal Exposure in Dry and Vapor-Rich Environments	Filofteia-Laura Toma, Fraunhofer Institute for Material and Beam Technology IWS
11:20	11:50	Yttria stabilized zirconia deposited using suspension plasma spraying: a comparative framework with electron beam physical vapour deposition and air plasma spraying	Tanvir Hussain, University of Nottingham
11:50	13:00	LUNCH WITH EXHIBITORS Sponsored By Alloy Coating Supply	
Applications I: Feedstock Materials & Processing Equipment			
Chair:			
13:00	13:30	TBC Compositions for CMAS Protection using SPS for Rapid Coating Development	Richard Trache, Treibacher Industrie AG
13:30	14:00	Amperit® Powder Solutions for EBC’s Coating Systems	Barbara Maroli, Höganäs
14:00	14:30	Developing Process Control for Suspension Plasma Spraying	Wania Jibran, TECNAR
14:30	14:50	Refreshment Break with Exhibitors & Poster Session	
14:50	17:30	Exhibitor Tear - Down	
Applications II: Aerospace Industry			
Chair:			
14:50	15:20	Challenges and future T/EBC for aeronautics applications	Lisa Pin, Safran Ceramics
15:20	15:50	From Computational Design to Coating Deposition: Challenges in Complex Oxide TBCs and EBCs	Jonathan Gutleber, Oerlikon Metco
15:50	16:20	Development of Thermal Barrier Coatings for Aero Engines Using S-HVOF Process	Kazuma Takeno, Mitsubishi Heavy Industries
16:20	16:50	Microstructure Challenges in Spraying of Suspensions	Brian Hazel, Pratt & Whitney
16:50	17:50	Panel Discussion - Join this interactive session for open, peer-driven conversations on key industry topics. Guided by an experienced moderator, participants will gain valuable insights, explore diverse perspectives, and connect with leaders from industry and academia.	
17:50	18:00	CLOSING REMARKS: Radek Musalek, Tomas Tesar, Jan Cizek, IPP	