



CSAT Meeting AGENDA

Tuesday, May 20, 2025, Meeting Time: 8:00am-4:10pm

Dr. Victor Kenneth Champagne, Jr. (Welcome & Keynote Address) 0800-0830

Presenter Presentation Topic Time

Session 1: Materials in Extreme Environments (Moderator: Howie Marotto, TBGA & EWI)

1. Bradley Deuser, Missouri S&T	Design Rules for Cold Spray	0830-0850
2. Michael Schmitt, HAMR Industries	Cold Spray AM of High Temperature/Strength Aerospace Alloys	0850-0910
3. Bob Aune, Leidos	Cold Spray AM for Extreme Environments	0910-0930
4. Alan Fung, Aerojet Rocketdyne	NASA Rocket Nozzle Applications of Cold Spray	0930-0950
Exhibit Area	BREAK AND NETWORKING	0950-1030

Session 2: Advancements in Cold Spray (Moderator: Aaron Nardi, VRC Metal Systems)

5. Bruno Zamorano, Boeing	C-17 Window Frame Cold Spray In-Situ Repair Qualification	1030-1050
6. Steve Camilleri, SPEE3D	Advancements in Cold Spray AM, New Materials & 3D Printing	1050-1110
7. Tim Eden, Penn State University	Cold Spray Development at PSU Applied Research Laboratory	1110-1130
8. Peter King, CSIRO	Automating Repairs of Complex Parts Using Continuous3D	1130-1150
Exhibit Area	LUNCH	1150-1250

Session 3: Applications (Moderator: Bruno Zamorano, Boeing)

9. Dan Stanley, NAVSEA	Cold Spray Applications Development at NAVSEA	1250-1310
10. Aaron Nardi, VRC Metal Systems	Cold Spray Applications for Defense	1310-1330
11. Neil Matthews, Titomic	Manufacturing, Repair, Coatings & Materials Development	1330-1350
Exhibit Area	BREAK AND NETWORKING	1350-1430

Session 4: Feedstock Powders (Moderator: Luke Brewer, University of Alabama)

12. Gregory Kubacki, Un. of Alabama	Impact of Composition on Al-Zn-Mg-Cu CS Performance	1430-1450
13. Joe Heelan, Powders on Demand	Elevating Cold Spray with Engineered Powders	1450-1510
14. Daniel Mumm, UCI	Refractory Powder Feedstock for Cold Spray	1510-1530
15. Joseph Stanzione, Rowan University	Potential of Cold Spray to Boost Hypersonic Erosion Testing	1530-1550
16. Rajiv Mishra, Optimus Alloys	ICME Alloy Design for CS to Maximize Strength and Ductility	1550-1610
RECEPTION	DCU Center Concourse (Poster Session-Exhibits)	1610-1800

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Session 5: Applications (Moderator: Dan Stanley, NAVSEA)

1. Bryer Sousa, Triton Systems	Cold Spray for Next Generation Defense Systems	0800-0820
2. Julio Villafuerte, Centerline	Low Pressure Cold Spray Applications	0820-0840
3. Sam Bedard, EWI	Cold Spray Research and Development at EWI	0840-0900
4. Ben Peterson, Honeywell	Cold Spray Weldability	0900-0920
Exhibit Area	BREAK AND NETWORKING	0920-1000

Session 6: Quality Assurance & NDT (Moderator: Ozan Ozdemir, Northeastern University)

5. Tatu Leppänen, Oseir Ltd.	Cold Spray Plume Diagnostics for Quality Control	1000-1020
6. Todd Dunford, JENTEK Sensors	In-Situ & Post Processing EC-Array Sensing for AM & CS	1020-1040
7. David Lessard, Tecnar	Leveraging AI & Machine Learning for Thermal & Cold Spray	1040-1100

Session 7: Nitrogen Gas Cold Spray (Moderator: Joe Heelan, Powders on Demand)

8. David Schimbäck, Airbus	CS Nitrogen: On the Way to Cost Effective Structural Repair	1100-1120
9. Leonhard Holzgaßner, Impact Inn.	CS of Al Alloys for Structural Repair Using Nitrogen	1120-1140
10. Sinan Muftu, Northeastern Uni.	Lessons Learned: Heat Treating Nitrogen Sprayed Al 6061	1140-1200
Exhibit Area	LUNCH	1200-1300

Session 8: Power (Moderator: Jack Lareau, Former Westinghouse)

11. Chris Smith, PNNL	Cold Spray Repair of Hydropower Hardware Using Nitrogen	1300-1320
12. JP Lacy, EPRI	Cold Spray Repair for the Power Industry	1320-1340
13. Jan Schubert, VZU Pilsen	Mobile CS of Dividing Plane of High-Pressure Turbine Vessel	1340-1400
Exhibit Area	BREAK AND NETWORKING	1400-1430
14. Tanaji Paul, FIU	Pushing Boundaries for Space, Electronics & Ceramics	1430-1450
15. Student CSAT Speaker	To Be Determined	1450-1510
Dr. Victor Champagne	Wrap-Up & CSAT 2025 Poster Awards	1510-1600
RECEPTION	Polar Park – WooSox Baseball Game Reception	1700-2000

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