

# Center for Thermal Spray Research



AT STONY BROOK UNIVERSITY

## Spring 2017 Consortium Meeting Agenda

Wednesday, June 21<sup>th</sup>, 2017

Consortium review session on advanced concepts (**OPTIONAL**)

Location: Old Engineering Room 145, Stony Brook University

Time Start	Time End	Title	Speaker
8:45	10:00	Thermal Spray: Integration of Design, Materials and Processes	Sanjay Sampath
		<b>Coffee Break</b>	
10:30	11:00	Process induced residual stresses: Evolution, characterization and implications	Alfredo Valarezo
11:00	11:25	Plasma sprayed ceramics Effect of microstructural features on coating properties	Toshio Nakamura
11:25	12:15	Structurally integrated coatings: Contact mechanics and failure mechanisms/ corrosion	Gregory Smith/ Edward Gildersleeve
12:15	1:15	<b>Lunch at Center Facilities</b>	
		<b>Lab Tour and Demonstrations</b>	

*\*All times are in EST*

**Location: Humanities Building, Room 1006**

### Consortium Thematic Discussion: Component Geometry Effects

Time Start	Time End	Title	Speaker
3:00	3:20	3D plumes, Coalescence, Spray Dynamics with implications for complex geometries	Sanjay Sampath
3:20	3:40	Applying traditional flat geometry evaluation to rotating parts. Correlating coating properties	Gregory Smith
3:40	5:00	<p style="text-align: center;"><b>Panel Discussion</b> Thermal Spraying on Complex Geometries Tentative Participants: Brian Hazel – Pratt and Whitney Martin Kramer – General Motors Kirk Fick – Cincinnati Thermal Spray Anirudha Vaidya – Siemens James Martin – Naval Research Laboratory Bryan Harder - NASA</p>	Moderator Richard Schmid Oerlikon Metco
6:30		<b>Networking Dinner: Lombardi's on the Sound Port Jefferson NY</b>	

# Center for Thermal Spray Research



AT STONY BROOK UNIVERSITY

## Spring 2016 Consortium Meeting Agenda

**Thursday June 22nd, 2017**  
**Consortium Presentations**

***Location: Humanities Building, Room 1006***

Time Start	Time End	Title	Speaker
8:15	8:30	Introduction to CTSR and Consortium	Sanjay Sampath
8:30	9:15	Fundamental Considerations in Thermal Spray of Multiple component oxides: (EBCs, TBCs, Functional Materials)	
9:15	9:45	Measuring functional properties of thermal sprayed oxides	Hwasoo Lee
9.45	10.15	<b>Coffee Break</b>	
10:15	10:30	Design relevant coating properties: Robust methods and correlations	Sanjay Sampath
10:30	10:50	Understanding substrate coating adhesion through traditional and new testing methods	Xiaotao Luo
10:50	11:30	Toughness and Strain to Failure Measurement of structurally integrated coatings	Gregory Smith Olivia Higgins
11:30	12:00	Thermal management coatings for diesel engines - An overview of new initiative	Eric Gingrich US Army Tardec John Saputo- Stony Brook
12:00	1:00	<b>Lunch</b>	
1:00	1:30	Substrate and Bond Coat Effects on TBC Durability	Bruce Pint (ORNL)
1:30	2:00	Geometry effects on Coatings and Properties	Edward Gildersleeve/ Toshio Nakamura
2:00	2:30	Ash and CMAS effects on APS TBCs: Role of chemistry and microstructure	Edward Gildersleeve
2:30	3:00	Synthesis and characterization of compliant ceramic coatings: Porous, DVC, and SPS	Sanjay Sampath / Shalaka Shinde
<b>ADJOURN</b>			

***\*All times are in EST***