



**5th International Workshop on  
Solution and Suspension Thermal Spraying**



**Planning S2TS 2011**

**Monday - October, 3rd**

	N°	item / speakers	Paper Title
11:00		welcome	
12:00		Lunch	Restaurant le Palais
02:00		E. Meillot L. Bianchi Ph. Simonetti CEA, DAM Le Ripault, F37260 Monts, France	Opening and welcome ceremony
02:15	C1	Prof. Rodney W. TRICE Purdue University, USA	Suspension Plasma Spray Additives as a Route for Microstructural Design of Coatings
03:00	C2	E. Darthout; F. Gitzhofer University of Sherbrooke CANADA	Thermal properties of Lu <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> coatings synthesized by induction plasma using solution precursors for the application of environmental barrier coating.
03:20	C3	Claudia Christenn; Andrea Haug; Steffen Wolf; Asif Ansar DLR, GERMANY	Characterization of ceramic coatings deposited by solution precursor plasma spray process.
03:40	C4	Anna V. Khlyustova; Mikhail S. Khorev; Alexander I. Maximov. Institute Solution of Chemistry of RAS, Ivanovo, RUSSIA	Formation of oxide films at solution sputtering by glow discharge
04:00	C5	G. Bertolissi <sup>1</sup> ; C. Chazelas <sup>2</sup> ; G.Bolelli <sup>1</sup> ; M. Vardelle <sup>2</sup> ; L. Lusvarghi <sup>1</sup> ; A. Vardelle <sup>2</sup> 1 University of Modena and Reggio Emilia, 41125 Modena (MO), Italy; 2 University of Limoges, 87000 Limoges, France.	Engineering the microstructure of solution precursor plasma-sprayed coatings.
4:20		Coffee break	
05:00		Prof. M. BOULOS (TEKNA – CANADA), Dr D. BILLIERES (SAINT GOBAIN COATING SOLUTION - FRANCE), Prof. R GADOW (University of STUTTGART – GERMANY), Dr E. COTLER (SULZER METCO – USA), Prof. G. MONTAVON (University of BELFORT MONTBELIARD – FRANCE), Dr BIANCHI (CEA - FRANCE)	Round Table: some items of discussion: - industrial applications potentiality of the processes - technological blockage - suspension spraying assets - what should be necessary to move or adapt the process? - safety and secure - And so on.
6:30		End of the sessions.	
06:30		Aoéritif and Welcome party	Tours Town Hall
07:30		Dinner	BURE restaurant



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**Tuesday October 4th Morning**

		item / speakers	Paper Title
09:00	C6	S. Vincent* E. Meillot°C. Caruyer°J.-P. Caltagirone* * University of Bordeaux 1, France °CEA DAM Le Ripault, France	Analysis by modeling of the interaction between a thermal flow and a liquid
9:40 AM	C7	C. Caruyer°, S. Vincent*, E. Meillot°, J.-P. Caltagirone* * University of Bordeaux 1, France ° CEA DAM Le Ripault, France	Modeling of the fragmentation of a water jet in the liquid precursor plasma spraying.
10:00	C8	Menno ZWETSLOOT Flame Spray Technologies bv, Duiven, THE NETHERLAND	New generation Advanced HVOF Torch using Ethanol
10:20		Coffee break	
11:00	C9	Philipp Müller, Tobias Burger, Andreas Killinger, Rainer Gadow University of Stuttgart, Institute for Manufacturing Technologies of Ceramic Components and Composites Stuttgart, GERMANY	Comparison between high velocity suspension flame spraying and suspension plasma spraying of alumina
11:20	C10	Z. Tang, H. Kim, I. Yaroslavski, G. Masindo, Z. Celler, D. Ellsworth Northwest Mettech Corp., Vancouver, CANADA	Axial Suspension Plasma Spray For Columnar Thermal Barrier Coatings
11:40	C11	O.P. Solonenko Khristianovich Institute of Theoretical and Applied Mechanics, Novosibirsk, RUSSIA	Splat formation on impact of "melted metal matrix – ultra-fine solid inclusions" suspension particles onto substrate
12:00		Lunch	Restaurant le Palais



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Tuesday October 4th Afternoon

2:15 PM	C12	Prof R. GADOW, Dr Andreas Killinger, Dr Andrei Manzat University of Stuttgart, Institute for Manufacturing Technologies of Ceramic Components and Composites Stuttgart, GERMANY	High Velocity Suspension Flame Sprayed (HVSFS) coatings for automotive applications
3:00 PM	C13	R. Vert <sup>(1)</sup> , E. Meillot <sup>(1)</sup> , S. Valette <sup>(2)</sup> , E. Laborde <sup>(2)</sup> , P. Carles <sup>(2)</sup> , G. Mariaux <sup>(2)</sup> , A. Vardelle <sup>(2)</sup> (1) CEA, DAM, Le Ripault, France (2) SPCTS, UMR-CNRS 6638, University of Limoges, Limoges, France	Adhesion of ceramic coating on thin and smooth metal substrate: A novel approach with a nanostructured ceramic interlayer
03:20	C14	G. Darut; H. Ageorges; A. Denoirjean, P. Fauchais SPCTS, UMR CNRS, Université de Limoges, Limoges France	MoS2 suspension elaboration and YSZ based- coatings by suspension plasma spraying
03:40		Coffee break	
04:20	C15	E. Brousse-Pereira, K. Wittmann-Teneze, V. Bianchi, P. Boy, P. Echegut CEA DAM Le Ripault, MONTS, FRANCE CEMHTI, CNRS, Université d'ORLEANS, Orléans, France	Optical and electrical properties of heterogeneous coatings produced by powder and solution plasma spraying
4:40 PM	C16	Alexandre Guignard; Georg Mauer; Robert Vaßen; Detlev Stöver Forschungszentrum Jülich GmbH, Jülich, GERMANY	Suspension plasma spraying for the deposition of thermal barrier coatings with fine microstructure
5:00 PM	C17	G. Bolelli1; D. Bellucci1; V. Cannillo1; R. Gadow2; A. Killinger2; L. Lusvarghi1; A. Sola1; N. Stiegler2 1 University of Modena and Reggio Emilia, Modena (MO), ITALY 2 Universität Stuttgart, Stuttgart, GERMANY	High Velocity Suspension Flame Spray (HVSFS)- deposition of bioactive ceramic coatings
05:20		E. Meillot L. Bianchi Ph. Simonetti CEA, DAM Le Ripault, F37260 Monts, France	Closing ceremony
6:00 PM		Travel to Amboise castle	
7:00 PM			Visit and Lunch in Amboise castle