

2006



MONDAY 11/09/2006		TUESDAY 12/09/2006		THURSDAY 14/09/2006		FRIDAY 15/09/2006	
	PROTOTYPAGE RAPIDE		European Actions in the field of Direct Metal Manufacturing		COLD SPRAY		NUMERICAL SIMULATION
8.30	Welcome Coffee & Croissants			9.00	Cold Spray: state of the art and basic applications A. Papyrin, Cold Spray Technology, Albuquerque, NM, USA	9.00	Hierarchy of mathematical models describing interaction of laser radiation with matter Vladimir Mazhukin, Institute of Mathematical Modeling of the Russian Academy of Sciences, Moscow
9.30	B. LAGET , Director of ENISE and J.C. CRAPART , Director of CETIM	9.00	French Association for Rapid Manufacturing, Commission for Direct Metal Manufacturing G. Taillandier, President of AFPR	10.00	On the potential of Cold Spraying for Functional Coatings Institut für Werkstofftechnik, Uni Bw Hamburg Prof. Dr. Thomas Klassen	10.00	Electronic and Emission Properties of Metals and Semiconductor. Alexander Mazhukin, Institute of Mathematical Modeling of the Russian Academy of Sciences, Moscow
9.45	Introduction to Fabrication Direct Manufacturing Days by G. Taillandier, President of AFPR	9.30	Rapid Manufacturing Platform A. Gerrits, Coordinator of the Rapid Manufacturing Platform, TNO Science & Industry	10.30	New Cold Spray System: Technology Advancement and applications Maurice Ducos Consultant, Cold Gas Technology CGT Germany	10.30	Laser pulse time profile influence on material treatment Maxim Lobok, Institute of Mathematical Modeling of Russian Academy of Sciences, Moscow, Russia
10.00	<u>General Introduction</u> From Rapid Prototyping to direct manufacturing. Benoit Verquin, CETIM	10.00	Strategy and Opportunities for Rapid Manufacturing Martin Schäfer, Siemens AG, Corporate Technology.	11.00	Coffee Break	11.00	Influence of the laser radiation wavelength in evaporation and plasma formation processes. Comparative analysis. Vladimir Mazhukin, Institute of Mathematical Modeling of the Russian Academy of Sciences, Moscow
10.30	Powders Powder atomisation Lucas Dembinski, UTBM, LERMPS	10.30	Coffee Break	11.30	Cold Spray: ITAM basic and applied research Vladimir Kosarev, Lab Director, Institute of Theoretical and Applied Mechanics of the Russian Academy of Sciences, Siberian Branch, Novosibirsk.	11.30	Simulation of pulsed laser action of nanosecond range A.Gusarov, DIPI ENISE
11.00	Processes Rapid Tooling in DMLS for metal injection Pascal Mognol, ENS-Cachan, IRCCyN.	11.00	Conferences resume				
11.30	Direct Manufacturing of Tooling and Parts B. Le Razer, PEP, Oyonnax		International Conference on Rapid Prototyping and Manufacturing, HELSINKI B. Le Razer				
12.00	Laser Synthesis of the functional graded filter						

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	elements from metal-polymer powder compositions Dr. Igor Shishkovsky, Ass. Samara State Technical University, Lebedev Physical Institute of Samara branch Russian Academy of Science	11.10	Second International conference on Rapid Manufacturing. Loughborough. Igor Smurov	12.00	Optimization of cold spray nozzle and deposition characteristics of cold-sprayed coatings Lucas DEMBINSKI, LERMPS-UTBM		
		11.20	Solid Freeform Fabrication, Austin (Texas) Pascal Mognol.				
		11.30	GIP GERALIP activities in the field of Fabrication Direct Metal Manufacturing P. Aubry, GIP GERALIP, Arcueil				
12.30	Lunch Break	12.00	Lunch Break	12.30	Lunch Break	12.00	Lunch Break
14.00	Layer-by-Layer SLS process of 3D ceramic parts from oxide powder mixtures used in the SHS. Dr. Igor Shishkovsky, Ass. Samara State Technical University, Lebedev Physical Institute of Samara branch Russian Academy of Science	13.30	Working meeting of the Direct Manufacturing Group of AFPR	14.00	Laser Shock Simulation of Particle-Substrate Interactions in Cold Spray Michel Jeandin, Sophie Baradas, Vincent Guipon Ecole Nationale Supérieure des Mines de Paris - ENSMP - Centre de Compétence Poly-Procédés -C2P- Maurice DUCOS Consultant Mornas	14.00 - 15.00	Knowledge Control
14.30	Simulation of laser assisted rapid manufacturing from metallic powder : Basic Problems A. Gusarov, DIPI, ENISE			14.30	Conductor coatings by Cold Spray. State of the art and perspectives. G.EZO'O et F Raletz CRITT-LORIUS Longwy		

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				15.00	Multicomponent Cold Spray Coatings Dr. Vladimir Kosarev, Lab Director, Institute of Theoretical and Applied Mechanics of the Russian Academy of Sciences, Siberian Branch, Novosibirsk		
15.00	Coffee Break	15.00	Coffee Break	15.30	Coffee Break		
15.30	Presentation of PHENIX SYSTEMS activities in the field of Direct Manufacturing P. Teulet, PHENIX SYSTEMS			16.00	Scientific basis and industrial applications V.Yu. Ulianitsky Lavrentyev Institute of Hydrodynamics SB RAS Novosibirsk, Russia,		
16.00	Presentation of TRUMPF activities in the field of Direct Manufacturing TRUMPF			16.30	D. Gun and Cold Spray activities at Praxair G. Matassoni Praxair Saint Etienne		
16.30	E-Manufacturing by EoS André Surel, EOS			17.00	Tribology of mechanical systems N.I. Smirnov Blagonravov Mechanical Engineering Institute, Russia, Moscow,		
17.00	Perspectives of application of Cold Spray for Direct Manufacturing A. Papyrin, Cold Spray Technology, Albuquerque, NM, USA				Tribological investigations of nanomaterials N.I. Smirnov Blagonravov Mechanical Engineering Institute, Russia, Moscow,		
18.00	Visit of ENISE Rapid Manufacturing Platform						