

Oral, Poster contribution

Original contributions on thermal spraying and recent developments on suspension thermal spraying are accepted. We mainly expect contributions devoted to the analysis of spray processes, sprayed coatings characterizations (microstructural, optical, mechanical, physical, chemical...) and on recent methods such as suspension spray and cold spray. The papers related to post spray treatments are welcome. Environmental and energetic aspects of thermal spraying will be particularly of interest during this 6th edition.

Additionally, the contributions related to the coatings applications and their functional properties are kindly invited.

Industrial exhibitions

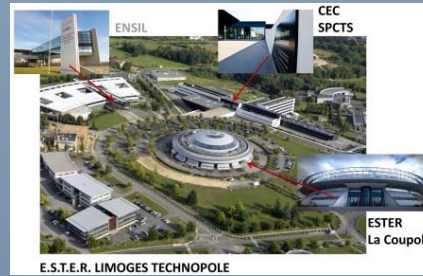
Thermal Spraying
(*process, diagnostics...*)
Materials for Spray
(*powders, precursor...*)
Characterization of the deposits
(*mechanical tests, porosity...*)

For more information ask

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Location

Centre Européen de la Céramique (CEC)
12 rue Atlantis
87068 Limoges CEDEX - FRANCE



October 31, 2013

PAYMENT OF PARTICIPATION FEE

Fee

1 day (with the choice) or 3 days:

	NON ETSA	ETSA members
<i>Students:</i>	60 € / 130 €	40 € / 100 €
<i>Academics:</i>	180 € / 350 €	140 € / 300 €
<i>Industrialists:</i>	210 € / 400 €	160 € / 350 €
<i>Exhibitors:</i>	500 €	450 €
<i>Gala dinner:</i>	50 €	40 €

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Third Announcement

6th RIPT

Les **R**encontres **I**nternationales
sur la **P**rojection **T**hermique



LIMOGES 2013

11th to 13th December

6th RIPT LIMOGES - 2013

Scientific Committee

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LAMPKE T.,	Prof., <i>University of Chemnitz, Germany</i>
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LUSVARGHI L.,	Dr., <i>University of Modena, Italy</i>
MATEJICEK J.,	Dr., <i>Institute of Plasma Physics, Prag, Czech Republic</i>
MAUER G.,	Dr., <i>Forschungszentrum Jülich, Germany</i>
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SANCHEZ E.,	Prof., <i>Institute of Ceramics, Spain</i>
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TILLMANN W.,	Prof., <i>Technische Universität Dortmund, Germany</i>
TROCZYNSKI T.,	Prof., <i>University of British Columbia, Canada</i>
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VUORISTO P.,	Prof., <i>Tampere University of Technology, Finland</i>
WANG Y.,	Prof., <i>China University of Petroleum, China</i>
WIELAGE B.,	Prof., <i>Technical University of Chemnitz, Germany</i>
ZORAWSKI W.,	Dr., <i>Kielce University of Technology, Poland</i>

General Information

Topics

- 1) *Materials for spraying: powders, suspensions, wires, rods*
- 2) *Spray processes and coatings*
- 3) *Cold gas spray method*
- 4) *Solution and suspension spraying*
- 5) *Post spray treatment*
- 6) *Modeling and process diagnostics*
- 7) *Characterization of coatings*
- 8) *Functional and nanostructural coatings*
- 9) *Biomaterials*
- 10) *Applications of coatings*

Organizing Committee

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DENOIRJEAN Alain
LAVAL Jean-Paul
LECOMPTE Jean-Pierre
MUNSCH Tibaïre
PATEYRON Bernard
WEHR-PAWLOWSKI Muryel

ETSA

European Thermal Spray Association meeting will have place on 11 December during the first day of 6RIPT

Papers

The presented papers can be submitted for publication in the special issue of **Surface and Coatings Technology** (Elsevier) with the impact factor 2012, IF=1.94. The special issue editors are Robert VASSEN and Lech PAWLOWSKI. The details of manuscripts preparation can be found on: www.elsevier.com/locate/surfcoat

Oral, Poster contribution

Original contributions in the field of thermal spraying and, in particular, recent developments on suspension for thermal spraying have been accepted.

114 presentations will be given:

- 3 plenary lectures,
- 19 invited papers initiating each session,
- 65 oral presentations,
- 27 posters.

6RIPT news on the website

<http://www.unilim.fr/ript>

Invited/plenary lectures will be given by:

BIANCHI Luc <i>Dr.</i>	CEA	TOURS	FRANCE
BERGER Michael <i>Dr.</i>	FRAUNHOFER INSTITUTE	DRESDEN	GERMANY
CANNILLO Valeria <i>Prof.</i>	UNIVERSITY OF MODENA	MODENA	ITALY
CHICOT Didier <i>Prof.</i>	UNIVERSITY OF LILLE 1	LILLE	FRANCE
DOSTA Sergi <i>Dr.</i>	UNIVERSITY OF BARCELONA	BARCELONA	SPAIN
FAUCHAIS Pierre <i>Prof.</i>	UNIVERSITY OF LIMOGES	LIMOGES	FRANCE
HÖHLE Michael <i>Dr. /</i> GINDRA Malko <i>Dr.</i>	SULZER METCO	WOHLEN	SWITZERLAND
GADOW Rainer <i>Prof. /</i> KILLINGER Andreas <i>Priv.-Doz.</i>	UNIVERSITY OF STUTTGART	STUTTGART	GERMANY
GRUND Thomas <i>Dr.</i>	CHEMNITZ UNIVERSITY OF TECHNOLOGY	CHEMNITZ	GERMANY
KLASSEN Thomas <i>Prof.</i>	UNIVERSITY OF HAMBURG	HAMBURG	GERMANY
KURODA Seiji <i>Prof. /</i> ITO Kaita <i>Dr.</i>	NIMS / UNIVERSITY OF TOKYO	TSUKUBA / TOKYO	JAPAN
LIMA Carlos <i>Prof.</i>	METHODIST UNIVERSITY OF PIRACICABA	SAO PAULO	BRESIL
LUSVARGHI Luca <i>Dr.</i>	UNIVERSITY OF MODENA	MODENA	ITALY
MAUER Georg <i>Dr.</i>	FORSCHUNGSZENTRUM JÜLICH	JÜLICH	GERMANY
MONTAVON Ghislain <i>Prof.</i>	UNIVERSITY OF BELFORT MONTBÉLIARD	BELFORT	FRANCE
NYLEN Per <i>Prof.</i>	UNIVERSITY OF TROLLHÄTTAN	TROLLHÄTTAN	SWEDEN
SANCHEZ Enrique <i>Prof.</i>	INSTITUTE OF CERAMIC TECHNOLOGY	CASTELLON	SPAIN
SMUROV Igor <i>Prof.</i>	ENISE	SAINT ETIENNE	FRANCE
VARDELLE Armelle <i>Prof.</i>	UNIVERSITY OF LIMOGES	LIMOGES	FRANCE
VASSEN Robert <i>Prof.</i>	FORSCHUNGSZENTRUM JÜLICH	JÜLICH	GERMANY
VUORISTO Petri <i>Prof.</i>	TECHNICAL UNIVERSITY OF TAMPERE	TAMPERE	FINLAND
WIELAGE Bernhard <i>Prof. /</i> LAMPKE Thomas <i>Prof.</i>	TECHNICAL UNIVERSITY OF CHEMNITZ	CHEMNITZ	GERMANY

Partners



First day: Wednesday, December 11

Salle TD 4

9h00-12h00

Meeting of ETSA Board of Directors

AMPHI 4

10h00

Open lecture of Prof. Rainer Gadow from IFKB in Germany
"Bioceramic coatings and composites from materials and processes to medical applications"

ENTRY HALL

14h00-18h30

Registration and installation of industrial exposition.
Installation of posters.

16h00-18h00

Visit of the laboratories

CITY HALL OF LIMOGES

18H30-21h00

Welcome cocktail given by municipality of Limoges

INSCRIPTION FORMULAR

6th RIPT

Limoges 2013

Please complete and return the reply form below.

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Program of 6th RIPT - Thursday, December 12

Amphitheater 4

8h00: Opening ceremony Welcome words: Lech Pawlowski & Robert Vassen, invited of Municipality, University, Faculty, ENSCI, SPCTS

8h30: Plenary lecture: Dr. Michael Höhle / Dr. Malko Gindrat, Innovative Thermal Spray Solutions for Future Challenges

Amphitheater 4

Spray process – session 1

Chairman: Lech Pawlowski

- 9h00 Comprehensive development of thermal spray concepts.
Prof. Bernhard Wielage / Prof. Thomas Lampke – Technical University of Chemnitz (Germany)
- 9h30 Ultra high pressure HVOF gun fueled with ethanol for carbides spraying.
Frantisek Zahalka
- 9h50 Interface reaction mechanism for Al coating sealed with thermal diffusion of Zn.
Timing Zhang
- 10h10 Technological Developments in Nozzle Design for Twin Wire Arc Spraying to Improve the Variety of Application.
Leif Gereon Hagen

Amphitheater 3

Cold spray – session 1

Chairman: Thomas Klassen

- 9h00 Cold Spraying: From process fundamentals towards advanced applications.
Prof. Igor Smurov – ENISE (France)
- 9h30 Investigation on the Effect of Addition of Ni₃Al Particulates on the Mechanical Properties of Cold Sprayed Nickel.
Tharaka Chandanayaka
- 9h50 The effect of substrate preparation on the mechanical properties of coatings deposited by low-pressure cold spraying.
Pawel Sokolowski
- 10h10 Oxidation performance of cold sprayed Ti-Al barriers on γ -TiAl intermetallic substrates.
Jan Cizek

Salle TD 3

Applications of coatings – session 1

Chairman: Bernhard Wielage

- 9h00 Bioglass, bioceramic and composite coatings for biomedical applications.
Prof. Valeria Cannillo – University of Modena (Italy)
- 9h30 Investigation of HVOF-Sprayed Hardmetal Coatings for Static Friction Applications.
Lutz-Michael Berger
- 9h50 Steel coating application for engine block bores by Plasma Transferred Wire Arc spraying process.
Geoffrey Darut
- 10h10 Recent Developments in High Velocity Suspension Flame Spraying and Industrial Applications.
Priv.-Doz. Andreas Killinger / Prof. Rainer Gadow – University of Stuttgart (Germany)

10h40 – 11h20 Coffee break

Nanotechnology – session 1

Chairwoman: Armelle Vardelle

- 11h20 Novel Opportunities for Thermal Spray by PS-PVD.
Dr. Georg Mauer – Forschungszentrum Jülich (Germany)
- 11h50 Helium Substitution in liquid feedstock plasma spraying.
Aurélien Joulia
- 12h10 On Experiments with Liquid Feedstock Spraying with Water Stabilized Plasma Torch.
Radek Musalek
- 12h30 Role of suspension processing in the preparation of nano/submicron structured feedstocks for plasma spraying.
Prof. Enrique Sánchez – Institute of Ceramic Technology (Spain)

Cold spray – session 2

Chairman: Sergi Dosta

- 11h20 On Adhesion Mechanisms of Cold Gas Sprayed Aluminium Coatings on Al₂O₃-Substrates.
Dr. Thomas Grund – Chemnitz University of Technology (Germany)
- 11h50 Effect of axial carrier gas on particle velocity in cold spraying.
Xinkun Suo
- 12h10 Effect of Preheating Treatment on the Deposition Mechanism of Cold Sprayed Copper Particles.
Shuo Yin
- 12h30 A study on the microstructure and tribological behavior of cold-sprayed metal matrix composites reinforced by particulate quasicrystal.
Xueping Guo

Applications of coatings – session 2

Chairman: Carlos Lima

- 11h20 Developing alternative coatings for repair and restoration of pumps of caustic liquor transportation in the aluminum and nickel industry.
Prof. Carlos Lima – Methodist University of Piracicaba (Bresil)
- 11h50 Thermally Sprayed Finestructured WC-12Co Coatings Finished by Ball Burnishing and Grinding as an Innovative Approach to Protect Forming Tools Against Wear.
Peter Hollingsworth
- 12h10 Bioactivity and Mechanical Properties of Bioactive Glass Coatings Fabricated by Flame Spraying.
Monica Monsalve
- 12h30 Characterization of microstructure and thermal properties of YCSZ coatings obtained by suspension plasma spraying.
Pawel Sokolowski

13h00 – 15h00 LUNCH

Program of 6th RIPT - Thursday, December 12 *(also next page)*

Amphitheater 4

15h00: Plenary lecture: Prof. Thomas Klassen, Optimum Parameters for Cold Spraying

Amphitheater 4

Mechanical properties – session 1

Chairman: Eli Puchi Cabrera

- 15h30 Mechanical properties by indentation of thermal sprayed coatings: Relevance of the scale of measurement.
Prof. Didier Chicot – *University of Lille 1 (France)*
- 16h00 Microstructure and sliding wear resistances of as-deposited and annealed high carbone steel coatings obtained by flame spraying.
Abdelaziz Ati
- 16h20 Microstructure and Tribology of WC-FeCrAl Cermets Deposited by HVOF- and HVOF-Spraying.
Giovanni Bolelli
- 16h40 Residual stresses and final deformation of an alumina coating: modeling and measurement.
Rodolphe Bolot
- 17h00 Integrated formation of high performance turbine blade model by SLM and APS technology.
Zhenhua Cai
- 17h20 Comparative study of the microstructure, microhardness, corrosion, wear and thermal shock resistance of ZrO₂-Y₂O₃, ZrO₂-CeO₂ and ZrO₂-Al₂O₃ coatings elaborated by atmospheric plasma spraying.
Andres G. Gonzalez

Amphitheater 3

Coatings properties – session 1

Chairman: Petri Vuoristo

- 15h30 Design of Microstructures in Thermal Barrier Coatings.
Prof. Per Nylen – *University of Trollhättan (Sweden)*
- 16h00 High temperature oxidation of MCrAlY coatings modified by Al₂O₃ PVD overlay.
Cécilia Bartuli
- 16h20 Deposition and Characterization of Thermal Barrier Coatings of ZrO₂-4 mol. % Y₂O₃-1 mol. % Gd₂O₃-1 mol. % Yb₂O₃.
Lidong Zhao
- 16h40 Effect of sealing processing and treatment on the behavior of plasma-sprayed ceramic alumina coating in extreme environment.
Angélique Canton
- 17h00 Improving surface properties of Mg alloys by cold spray Aluminum based coatings.
Juliana Bedoya
- 17h20 Investigation of the adherence between enamel coating and base metal by fractal analysis.
Tao Han

Salle TD 3

Applications of coatings – session 3

Chairman: Thomas Lampke

- 15h30 Manufacture of gadolinium zirconate as thermal barrier coating using different types of APS guns.
Prof. Robert Vassen – *Forschungszentrum Jülich (Germany)*
- 16h00 Co-plasma spraying of NiCrAlY powder and alumina suspension for anti-wear applications.
Alice Ravaux
- 16h20 The Use of Detonation Spraying for the Development of Catalytic Converters.
Igor Smurov
- Modelling – session 1**
Chairman: Luca Lusvarghi
- 16h40 Investigations and 3D representations of Atmospheric and Suspension Plasma Spraying coatings microstructure.
J. Marthe
- 17h00 Finite element modeling of cracking phenomenon on the interfaces of thermal barrier coatings system as a function of the TGO growth.
Joseph Absi
- 17h20 Computer-aided trajectory generation strategy and computational thermal history in thermal spraying.
Zhenhua Cai

17h40 – 17h50 Coffee break

Mechanical properties – session 2

Chairman: Andreas Killinger

- 17h50 Comparison of mechanical and electrochemical properties of WC-17 and 12Co coatings onto Al7075-T6 obtained by HVOF and CGS.
Dr. Sergi Dosta – *University of Barcelona (Spain)*
- 18h20 Effect of cold sprayed Al coating on mechanical property and corrosion behavior of friction stir welded 2024-T351 joint.
Wenya Li
- 18h40 Drilling resistance test as a method to determine mechanical properties of Al₂O₃-TiO₂ plasma spray coatings.
Claudia Constanza Palacio

Coatings properties – session 2

Chairman: Pierre Fauchais

- 17h50 Properties and performance of coatings deposited by laser cladding and thermal spray technologies - a direct comparison of the deposition technologies.
Prof. Petri Vuoristo – *Technical University of Tampere (Finland)*
- 18h20 Properties of NiCrBSi coating, as sprayed and remelted by different technologies.
Sárka Houdkova
- 18h40 Fireside corrosion performance of FeCrAl coating at 700, 750 & 800 °C in simulated coal-biomass combustion environment for USC boilers.
Tanvir Hussain

Modelling – session 2

Chairman: Ghislain Montavon

- 17h50 The usefulness of mathematical models in plasma spraying engineering.
Prof. Armelle Vardelle – *University of Limoges (France)*
- 18h20 Modeling of radiative exchanges between plasma jet and colloidal droplets in Suspension Plasma Spray.
Florent Girard
- 18h40 Comparison between Two-Dimensional and Three-Dimensional Models on Plasma Torch Simulations.
Zhiwei Guo

19h10 Poster session at the lower ground floor (RB) of Platforms in CEC building

20h00 Gala dinner in “Le Poudrier”

Program of 6th RIPT - Thursday, December 12

Amphitheater 4

15h00: Plenary lecture: Prof. Thomas Klassen, Optimum Parameters for Cold Spraying

Salle TD 4

Spray process – session 2

Chairman: Jan Cizek

- 15h30 Sprayability of Ceramic Substrates by Thermal Spraying.
Filoftea Laura Toma
- 16h00 Grain Growth and Pore Elimination in Inconel 625 Deposited by APS.
Fardad Azarmi
- 16h20 UHTC by plasma spraying: use of an innovative way to include SiC in coatings.
Charlotte Barré
- 16h40 Development of oxide-dispersion-strengthened CoNiCrAlY Bondcoats.
Francesco Bozza
- 17h00 MCrAlY and ZrO₂ coatings on Ti-6Al-4V using a non-transferred arc plasma torch with reverse vortex.
Felipe Rocha Caliri
- 17h20 The Role of Substrate Surface Roughness on Adhesion Properties of APS and HVOF Sprayed Nickel Coatings.
Ladislav Celko

17h40 – 17h50 Coffee break

Spray process – session 3

Chairman: Igor Smurov

- 17h50 Effect of Bond Coat Surface Roughness on the Structure of Axial Suspension Plasma Spray Thermal Barrier Coatings.
Nicholas Curry
- 18h20 Microstructure and wear resistance of FeAl/Al₂O₃ intermetallic composite coating prepared by atmospheric plasma spraying.
Bo Song

19h10 Poster session at the lower ground floor (RB) of Platforms in CEC building

20h00 Gala dinner in “Le Poudrier”

Program of 6th RIPT - Friday, December 13

Amphitheater 4

8h30: Plenary lecture: Prof. Pierre Fauchais,

Evolution, from the seventies to now of the understanding of plasma spraying at the University of Limoges

Amphitheater 4

Mechanical properties – session 3

Chairman: Enrique Sánchez

- 9h00 Tribological Properties of Thermally Spray Coatings.
Dr. Luca Lusvardi – *University of Modena (Italy)*
- 9h30 Tribo-corrosion behaviour of chromium carbide based coatings deposited by HVOF.
R. Pileggi
- 9h50 Microstructure and Tribological Properties of Plasma Sprayed Nanostructured and Conventional Alumina-Titania Coatings.
Wojciech Zorawski
- 10h10 Understanding the mechanisms produced during rotary drilling test of ceramic thermal spray coatings: An alternative to determine the mechanical resistance of these coatings.
Fabio Vargas

Amphitheater 3

Coatings properties – session 3

Chairman: Per Nylén

- 9h00 Suspension Plasma Spraying to reach enhanced coating properties.
Dr. Luc Bianchi – *CEA (France)*
- 9h30 The effect of samarium oxide on electrical conductivity of plasma sprayed SOFC anode.
S.N. Panahi
- 9h50 Optical properties of Al₂O₃ cermets obtained by plasma spraying: role of composition and microstructure.
Denis Toru
- 10h10 Effect of material combination of matrix and reinforcement on characterization of cold sprayed composite coatings.
Min Yu

Salle TD 3

Modelling – session 3

Chairman: Giovanni Bolelli

- 9h00 Process prediction / control implementing artificial intelligence methods and numerical modeling, in particular for robot trajectories.
Prof. Ghislain Montavon – *University of Belfort Montbéliard (France)*
- 9h30 Numerical simulation of several YSZ impacts on a stainless steel substrate under ArH₂ plasma spray conditions.
Frédéric Sarret

Spray process – session 4

Chairman: Robert Vassen

- 9h50 The Influence of Substrate Temperature on Properties of APS and VPS W Coatings.
Ondrej Kovářik
- 10h10 Correlation of Powder Feeding Parameters and Properties of Plasma Sprayed Alumina Coatings Evaluated With a New Camera Diagnostic System.
Ville Matikainen

10h50 – 11h10 Coffee break

Nanotechnology – session 2

Chairman: Alain Denoirjean

- 11h10 Thermal spraying with Suspensions - combining technical Performance and Economics.
Dr. Michael Berger – *Fraunhofer Institute (Germany)*
- 11h40 A dimensionless approach to studying submicron particle impact.
Guillaume Bidron
- 12h00 Graded Nanocomposite Ceramic Coatings fabricated from conventional coarse grained powder.
Tomas Chraska
- 12h20 Zirconium field electron emitters on template from suspension plasma sprayed bioactive glass coatings with acicular microstructures.
Zbigniew Znamirowski

Coatings properties – session 4

Chairman: Mario Tului

- 11h10 In-situ Monitoring of Cracking in Ceramic Coatings during Plasma Spraying by Using AE Signals.
Prof. Seiji Kuroda / Dr. Kaita Ito – *NIMS / University of Tokyo (Japan)*
- 11h40 Effect of the initial particles size distribution on the properties of suspension plasma sprayed Al₂O₃-TiO₂ coatings.
Mónica Vicent
- 12h00 On the search for producing intermetallics by diffusion reaction of cold spray bulk deposits.
Jan Vit
- 12h20 Detailed Microstructural Characterization of HPCS Ni and NiCu Coatings.
Heli Koivuluoto
- 12h40 Numerical and experimental analysis of copper particles velocity in low pressure cold spraying process.
Aleksandra Malachowska

Spray process – session 5

Chairman: Hanlin Liao

- 11h10 Optimization of WC-based HVOF-sprayed Coatings for Alternative to Electrolytic Hard Chromium: Respective Role of Binder and Carbides Grain Size on Coating Wear and Corrosion Properties.
Christophe Lyphout
- 11h40 Thermal kinetics in slag flame spraying for making hollow vitreous and semicrystalline microspheres.
Thierry Poirier
- 12h00 Influence of the Handling Parameters on the Formation of Residual Stresses During HVOF-Spraying of Fine WC-12Co Powders.
Peter Hollingsworth
- 12h20 Deposition of NiCrBSi coatings by atmospheric plasma spray and dry-ice blasting: microstructure and wear resistance.
Shujuan Dong

13h00 LUNCH and End of 6th RIPT