Program of the 1st International EJC-PISE Workshop in Riga (Latvia)

June 09, 2009, Tuesday

09:00 – 09:15	Welcome Leonids Ribickis, RTU; David Cameron, EJC-PISE; Winfried Blau, EFDS; Alexander Schwock, BNPT	
Decerative and fu	inctional coatings	
09:15 – 10:00 Opening Lecture	Peculiarities of Metal Coating Deposition on Polymer Fabric Inguna Strazdina, SIDRABE and Riga Technical University, Latvia	
10:00 – 10:20	Improving the adhesion of sputtered metal coatings on PMMA using an ALD interlayer	
	David Cameron, Advanced Surface Technology Research Laboratory, Finland	
10:20 – 10:40	The Effect of a Plasma Pre-treatment on the Quality of Flock Coatings on Polymer Substrates Andreas Wego, Deutsches Textilforschungszentrum Nord-West, Germany	
10:40 – 11:00	Colour Effects, Surface Protection and - Design by Vacuum Deposition Stephan Küper, LEYBOLD OPTICS, Germany:	
11:00 – 11:20	Application of plasma processes for functionalization of technical fibers and textiles	
	Andrejs Lusis, University of Latvia, Latvia	
11:20 – 12:00	coffee break	
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Wear and surface		
12:00 – 12:30	Optimization of wear protective DLC coatings by use of nanoindentation and	
Keynote Lecture	Raman spectroscopy	
,	Steffen Sønsberby, Danish Technological Institute, Denmark	
12:30 – 12:50	Development of Oxidation Protective Coating for Advanced Aero Engines Maik Fröhlich, DLR-German Aerospace Center, Germany	
12:50 – 13:10	Design of Novel Metallic Corrosion Protective Coating on Steel Sheet by Means of Thin Film Technologies Richard Weinhold, Dortmunder Oberflächenzentrum, Germany	
	,	
13:10 – 13:30	Hard coatings on tools for woodworking-state of the art Jerzy Ratajski, Technical University Koszalin, Poland	
13:30 – 14:30	Lunch	
Biologically and organically active coatings		
14:30 – 15:00	Deposition and physical properties of thin TiO2 and N-doped TiO2 films	
Keynote Lecture	prepared by High Power Impulse Magnetron Sputtering	
,	Vitezslav Stranak, University of Greifswald, Germany, Poland, Czech Republic	
45.00 45.00	White his ways and assume surface for doubt live land	
15:00 – 15:20	White biogeneered ceramic surface for dental implants Torsten Will, O.M.T. GmbH, Germany	
Cooperation / Partnering		
15:20 – 16:00	Financing of international research cooperation Marko Häckel, neoplas GmbH & INP Greifswald	
15:40 – 16:00	Bilateral and international financing of business cooperation Alexander Schwock, BalticNet-PlasmaTec, Western Pomerania Technology Centre	
16:00 – 17:00	Poster Session / Exhibition / brokerage event with coffee	
19:00 – 23:00	Social Event in the open air museum	

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June 10, 2009, Wednesday

Deposition proce 09:00 – 09:30 Keynote Lecture	sses Latest results in HPPMS thin film coatings for cutting tools Christoph Schiffers, CemeCon AG, Germany	
09:30 - 09:50	High frequency electromagnetic resonant method for metals melting and vaporization Janis Valdmanis, University of Latvia, Latvia	
09:50 – 10:10	Film Stress Relief: A Practical Guide to Adjusting Process Parameters Uwe Krause, Advanced Energy Industries, Germany	
10:10 – 10:30	The Art of Choosing the Right Power Supply Ken Nauman, Advanced Energy Industries, USA	
10:30 – 10:50	HiPIMS: An improvement of magnetron sputtering Aijaz Asim, Linköping University, Sweden	
10:50 – 11:30	coffee break	
Basics and Characterisation		
11:30 – 12:00 Keynote Lecture	Material effects of using of impulse gas valve in IPD device Krzysztof Zdunek, Warsaw Universty of Technology,Poland	
12:00 – 12:20	Photo-, dual- and exoelectron spectroscopy to characterize Nanocoatings and nanostructures Yuri Dekhtyar, Riga Technical University, Latvia	
12:20 – 12:40	Sp3 enhancing effects and stress optimisation in hard carbon materials Stéphane Neuville, Tetrahedral Carbon Engineering, France	
12:40 – 13:00	Novel High-performance Stages of Submersible Electric Centrifugal Pumps for Abnormal Well Operation Nikolajs Manastirskis, Mikrolat, Riga, Latvia	
13:00 – 13:30	Closing Session – future activities, Closing ceremony Yuri Dekhtyar, RTU; David Cameron EJC-PISE	
13:30	Lunch	

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Poster presentations

PECVD-technologies for Silicon- and Carbon based protective coatings

Sebastian Winkler, Roth & Rau AG, Hohenstein-Ernstthal, Germany

High-frequency plasma interaction with SiO2 glass

A. Skudra, University of Latvia, Riga, Latvia

Design and characterization of a synchronous co-axial double magnetron sputtering system

Daniel Lundin, Linköping University, Sweden

Dilatometric method of testing the thermal stability of the wear-resistance thin films Piotr Myslinski, Technical University Koszalin, Polen

Deposition of SiO2 like films with a miniaturized non thermal athmospheric pressure plasma jet (APPJ)

J. Schäfer, INP Leibniz Institute for Plasma Science and Technology, Greifswald, Germany

Metallisation of carbon nanofibres by Physical Vapor Deposition

Volker Brüser, INP Leibniz Institute for Plasma Science and Technology, Greifswald, Germany

Plasma spray deposition on metal oxide and carbon containing coatings for wide range application

Vitas Valincius, Lithuanian Energy Institute, Lituania

COMBINATION OF ta-C PROPERTIES OF PARTICULAR PRACTICAL INDUSTRIAL APPLICATION INTEREST

Stéphane NEUVILLE, TETRAHEDRAL CARBON ENGINEERING, France

Optimization of plasma electrolytic oxidation process parameters for modification of Ti6-Al4-V structure

Behzad Farshid1*, Mohammad Ali Faghighi Sani1, S. M. Mir Hosseini1, M. Meghdari2

- 1-Department of Materials Science Engineering, Sharif University of Technology, Tehran, Iran
- 2-Department of materials Science and Engineering, Azad University, Tehran, Iran

MULTIFUNCTIONAL PROTECTIVE TECHNOLOGICAL COVERINGS

Aleksandrs Urbahs, Konstantins Savkovs, Margarita Urbaha, Riga Technical University, Laboratory of Plasma Science and Technology, Latvia

HIGH TEMPERATURE OXIDE RESISTANT COMPONENTS OF PERSPECTIVE HIGH STRENGTH INTERMETALCERAMIC COMPOSITE COATINGS

Aleksandrs Urbahs, Konstantins Savkovs, Vladislavs Nesterovskis, Riga Technical University, Laboratory of Plasma Science and Technology, Latvia