

SCAD 2013

Day I - 20 February 2013

14h00	Opening SCAD 2013 D. Vanderschueren, UGent, Belgium	
14h15	Plenary session R. Maki, Volvo Construction Equipment, Sweden <i>Sustainable Heavy Equipment - Advanced Design of Structures and Tribosystems</i>	
15h00	Coffee break	
	Session 1	Session 2
15h30	Fatigue in offshore conditions	Tribology of advanced materials
15h30	R. Dimitriu, Heerema, the Netherlands <i>The Oil and Gas Industry Approach to Fatigue Philosophy Throughout the Twentieth and Twenty-first Century</i>	M. Kalin, University of Ljubljana, Slovenia <i>Importance of solid-liquid interface in tribology-based design</i>
16h00	F. Van den Abeele, Fugro GeoConsulting Belgium, Belgium <i>Fatigue analysis of free spanning pipelines subjected to vortex induced vibrations</i>	U. Sen, University of Sakarya, Turkey <i>Sliding wear behavior of coated AISI 52100 steel</i>
16h15	B.C. Pinheiro, Federal University of Rio de Janeiro, Brazil <i>X-ray diffraction study of microstructural changes during fatigue damage initiation in steel pipes</i>	Y.Y. Santana, Universidad central de Venezuela <i>Dry sliding wear of DLC-CrN coating on 316L stainless steel alloy</i>
16h30	P. Thibaux, Metal Structures Centre, Belgium <i>Stress concentration factors for welded tubular joints of offshore windmill support structures</i>	X. Xiaojun, Delft University of Technology, the Netherlands <i>Design of multiple phase low hardness high abrasive resistant steels</i>
16h45	C. Teodoriu, TU Clausthal, Germany <i>A comparative study of fatigue testing machines with application to OCTG and their threaded connections</i>	J. Sukumaran, UGent, Belgium <i>Alkali treatment and its effect on tribological properties of naturally woven coconut sheath polyester composite</i>
17h00	M. De Prada, Fundación CIDAUT, España <i>Influence of cryogenic treatments in aluminium alloys</i>	M. H. Staia, Universidad central de Venezuela <i>Increase of the load carrying capacity of aluminum 2024-T3 by means of a NiP-CrN-DLC coating</i>
17h15	E.S. Puchi-Cabrera, Université de Lille 1, France <i>Surface treatments for increasing fatigue strength of gear materials</i>	A. Mimaroglu, University of Sakarya, Turkey <i>Wear and mechanical performance of alumina filled poly-butylene-terephthalate composite materials</i>
19h	Social Program	
20h	Conference dinner	

Session 3		Session 4	
9h00	Defect assessment in fatigue	Challenges in wear monitoring and modelling (1)	
9h00	W. Nagy, UGent, Belgium <i>Increased durability of orthotropic steel bridge decks through crack growth predictions</i>	Amicar Ramalho, University of Coimbra, Portugal <i>Tribotesting: from the laboratory measurements to field application</i>	
9h15	R. Hojjati-Talemi, UGent, Belgium <i>XFEM vs CFEM: Application to fretting fatigue 2D crack propagation</i>		
9h30	N. Gubeljak, University of Maribor, Slovenia <i>Determination of calibration function for fatigue crack propagation by measurement of surface deformation</i>	I. Barányi, Szent István University, Hungary <i>Characterisation of abrasive worn surfaces by surface microtopography parameters</i>	
9h45	C.H.P. Wassink, Applus RTD, the Netherlands <i>Future possibilities for using NDT data in girth weld assessment</i>	V. Dalbert, INSA de Lyon, France <i>Tribo-electrochemical behavior of a ferritic stainless steel under applied potentials</i>	
10h00	Coffee break		
Session 5		Session 6	
10h30	Tribology in extreme conditions	Challenges in wear monitoring (2)	
10h30	S. Jaccobson <i>Tribology is just another word for extreme conditions</i>	H. Unal, University of Sakarya, Turkey <i>Mechanical and tribological properties of alumina filled poly-Ethylene-Terephthalate thermoplastic composite materials</i>	
10h45		T. Kuwayama, Nippon Steel & Sumitomo Metal Corporation <i>Application of subloading-overstress friction surface model to finite element analysis</i>	
11h00	E. Bemporad, University of Rome, Italy <i>Wear mechanisms and in-service surface modifications of a stellite 6B Co-Cr alloy</i>	G. Gavrilla, TU Gh. Asachi, Romania <i>Numerical simulation of contact wear under partial slip conditions</i>	
11h15	P.D. Neis, Universidade Federal do Rio Grande do Sul <i>Methodology for characterizing brake friction material on high temperatures</i>	E. Kuhn, Hamburg University of Applied Sciences, Germany <i>Investigations of the structural degradation of lubricating greases from an energy point of view</i>	
11h30	I. Cracaoanu, Philips Innovation Services, the Netherlands <i>Air bearings in high precision systems</i>		
11h45	Lunch + Poster session		
Session 7			
13h00	Tribology in the low countries (1)		
13h00	D.J. Schipper, University of Twente <i>Stribeck and traction curves for elliptical contacts: isothermal friction mode</i>		
13h30	A. Winogrodska, University of Twente, the Netherlands <i>Surface changes during wear of ceramics investigated by confocal and Raman spectroscopy</i>		
13h50	V. Rodriguez, UGent, Belgium <i>Tribological behaviour of the low and high viscosity PEEK against steel using different contact pressures</i>		
14h10	Y. Perez Delgado, UGent, Belgium <i>Friction and wear response of tib2-b4c ceramics</i>		
14h30	P. Lugt, SKF, the Netherlands <i>On the Grease Lubrication Mechanisms in Rolling Bearings</i>		
14u50	I. Cracaoanu, Philips Innovation Services, the Netherlands <i>Tribology in Brainport Eindhoven Region - solution to achieve innovative products</i>		
15u10	Coffee break		
Session 8		Session 9	
15u30	Tribology in the low countries (2)	15u30	Workshop
15u30	M. Woldman, University of Twente, the Netherlands <i>Three body abrasion</i>	15u30	P. De Baets, UGent, Belgium <i>Introduction</i>
15u50	D. Karupannasamy, University of Twente, the Netherlands <i>Modelling roughness effects on friction in deep drawing processes</i>	15u35	P. Bakker, Trelleborg Sealing Solutions, UK <i>Polymer Composites in sliding bearing applications. Contributions to sustainable construction and future opportunities</i>
16u10	A. Rodriguez, University of Twente, the Netherlands <i>Friction and the interaction between an object and skin</i>	16u05	- soon to be announced -
16u30	J. Sukumaran, UGent, Belgium <i>Transfer layer dynamicity in roll-slip of polymer metal pairs</i>	16u35	- soon to be announced -
16u50	D.J. Schipper, University of Twente, the Netherlands <i>Predicting galling behaviour in deep drawing processes</i>	17u05	P.B. Haugsoen, OWEC Tower, Norway <i>Foundation structures for offshore wind turbines – some experiences and future challenges</i>
		17u35	discussion
18h	closing reception		