

Final Programme

Marine aging of polymers and mechanical performance

Wednesday 28th August 2019

09h00-09h15. Introduction (Colloquium chairmen)

Session 1. Fibre reinforced polymers

Chairman: Prof. J. Summerscales (University of Plymouth, UK)

09h15-10h00	Keynote: Prof. AT Echtermeyer, NTNU Trondheim & DNVGL, Norway <i>Simplified Methods to Obtain Long Term Properties of Composites in a wide range of Marine/Offshore Environments</i>	
10h00-10h30	Experimental Investigation on the effect of water ingress on the flexural and interlaminar properties of glass/vinyl-ester composite laminates for marine applications.	Nash et al., (IRE)
<i>10h30-11h00 Coffee break</i>		
11h00-11h30	Investigation of the Effect of Water Ageing on Fracture Toughness of Novel Composite Materials.	Floreani et al (G-B)
11h30-12h00	Study of the hygro-elastic behavior of composite materials in presence of cracks: application to the durability of renewable marine energy structures.	Uguen et al, (F)
12h00-12h30	Durability studies of biocomposites within the SeaBioComp project.	Vancoillie (B).
<i>12h30-14h00 Buffet lunch</i>		

Session 2. Polymer foams

Chairman: Dr D. Melot (Total SA, France)

14h00-14h45	Keynote: G. Stewart, Balmoral, Scotland <i>Syntactic Foam Buoyancy Materials for Subsea Service: Composition, Design, Applications, Testing and Challenges</i>	
14h45-15h15	Effect of ageing parameter coupling on the durability of syntactic foam.	Le Gac, Le Gall (F)
15h15-15h45	The evolution of syntactic foam technology to meet increasingly diverse subsea applications and demands;	Lair et al. (Lair, F/UK)
<i>15h45 -16h15 Tea break</i>		
16h15-17h00	Ageing of Petroleum- and Biobased Polymers, from Nuclear Power Plants to Packaging Materials.	Hedenqvist (S)
End of Day One		

Thursday 29th August

Session 3. Polymers

Chairman: Prof. M. Hedenqvist (KTH Sweden)

09h00-09h45	Keynote: Prof. E. Richaud, ENSAM Paris, France <i>Aging of epoxies: case of bonded assemblies</i>	
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09h45-10h15	How do polymers degrade in Antarctica ?	Tochacek et al.(CZ)
10h15-10h45	Understanding degradation mechanisms of microplastics in environmental samples.	Eisentraut et al. (D)
<i>10h45-11h15 Coffee break</i>		
11h15-11h45	Characterization of water diffusion in the interphase of a bonded joint by fiber optic sensor based on Fresnel reflection.	Grangeat et al. (F)
11h45-12h15	NMR as a Versatile Tool in the Study of Polymer Aging.	Adams (D)
12h15-12h45	Lifetime prediction of thermoplastic elastomers undergoing hydrolysis, based on chain scission kinetic model and structure-property relationships.	Bardin et al (F)

12h45-14h Buffet lunch

Session 4. Polymer fibres

Chairman: P. Davies (Ifremer)

14h00-15h00	Keynote: M. Vlasblom, DSM Dyneema Holland	
	<i>HMPE fiber creep resistance: From perceived weakness to design parameter</i>	
15h00-15h30	Oxidative lifetime prediction of polypropylene geotextiles in an aqueous medium by using high pressure autoclave tests.	Zanzinger et al. (D)
<i>15h30-16h00 Tea break</i>		
16h00-16h30	Long term behavior of nylon fibres and ropes.	Chevillotte, Humeau et al. (F)
16h30-17h00	Fibre rope selection for offshore renewable energy: Current status and future needs.	Weller (G-B)
17h00-17h30	<i>Summary and general discussion on marine aging and coupling.</i>	
17h30	End of Day 2.	