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intelligent REactive polymer composites MOULDing

WORKSHOP

Technical workshop of the European FP7 iREMO project

Wednesday 28th September 2011

Composites Europe (Stuttgart)

Meeting Room C9.3, Hall ICS

from 13:30 to 18:00



RTM, LightRTM and Vacuum Infusion produce high quality composites but curing takes time, set-up is tricky with large safety margins and resin ageing, wrong mixing ratio and other deviations may hamper quality. Launched in September 2009, the iREMO project proposes a complete process automation and optimisation solution based on the cure monitoring, intelligent and

self-learning control to overcome these problems.

Partly funded by the European Seventh Framework Program (FP7) over 3 years, this project will develop intelligent process monitoring and control tools for the processing of liquid composite materials : self-learning process tools that can handle efficiently production and material deviations without requiring extensive (and unrealistic) lab trials and scientific models ; knowledge-based databases and model-based simulations that can provide the essential information to cope automatically with different matrices, batch-to-batch variations and small scale productions ; and robust and reliable process monitoring that can sense the state of the moulded materials, providing accurate real-time information on the status of the process. Results from the application to automotive, boat building and infrastructures will be presented during the workshop (see attached agenda)



www.iremo.eu

Project coordinator

CEMCAT (FR)

Project partners :

ACCIONA Infraestructuras (ES)

Atoutville (FR)

BIBA (DE)

Tecnalia (ES)

Karnic Powerboats (CY)

National Technical University Athens (GR)

SOTIRA (FR)

SYNTHESITES (GR)

University of Newcastle-Upon Tyne (UK)





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A G E N D A

13:30-14:00 :	Welcome coffee/registration	15:10-15:50 :	Intelligent process control in composites manufacturing
14:00-14:15 :	Introduction		<i>Nikos PANTELELIS (NTUA)</i>
14:15-14:30 :	General overview of the project and its objectives <i>Marc-Philippe TOITGANS (CEMCAT)</i>	15:50-16:30 :	Sensor-based ICT concept for composite manufacturing <i>Zied GHRAIRI (BIBA)</i>
14:30-14:50 :	Applied industrial process monitoring in composites manufacturing <i>Nikos PANTELELIS (NTUA)</i>	16:30-17:10 :	iREMO system helps improve productivity in resin infusion <i>Anurag BANSAL & Irene MUNIZ (ACCIONA Infraestructuras)</i>
14:50-15:10 :	Material state monitoring through DC sensing <i>Isabel HARISMENDY (TECNALIA)</i>	17:10-17:50 :	Use of iREMO system to produce automotive parts by RTM <i>Yannick AMOSSE & Gilles NEDELEC (SOTIRA)</i>

For more information :

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REGISTRATION FORM

Name :	
Title :	
Organisation :	
Address :	
Email :	

Will participate to the iREMO Workshop

Please, fulfill this registration form

and send it back to the following contact before September 21 :

Joël LEVEQUE

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