

World Congress and Expo on

Recycling

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Resource-efficient composite recycling

Sustainability grand challenges demand that innovative manufacturing, recycling and remanufacturing processes is to be optimized to be energy and material efficient. This should be done to reduce environmental burden and process cost and also to get more from less with improved quality. My presentation will be focused on resource efficient recycling of heterogeneous composite waste material. The aim is to share some of the research focus, directions and industrial opportunities to address the growing problem of composite waste. The presentation will be based on the work being undertaken in the EXHUME project “Efficient X-sector use of Heterogeneous Materials in Manufacturing”.

Biography

Paul T Mativenga has completed PhD in Manufacturing Engineering after an MSc in Advanced Manufacturing Systems and Technology from the University of Liverpool in the United Kingdom (UK). His first degree was in Industrial/Manufacturing Engineering. He currently holds a Chair in Multi-scale & Sustainable Manufacturing and is the Director of Research in the School of Mechanical, Aerospace and Civil Engineering at The University of Manchester in the UK as well as Distinguished Visiting Professor at the University of Johannesburg, South Africa. He is a Member of the International Academy of Production Engineering (CIRP). He has published more than 120 peer reviewed scientific papers.

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