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2<sup>nd</sup> World Congress and Expo on

# Recycling

July 25-27, 2016 Berlin, Germany



### Gary Leeke Cranfield University, UK

#### Recycling of carbon fibre: Re-use and Re-manufacture

Which is typically about 50% wt. Chemical recycling (solvolysis) uses an appropriate solvent to depolymerize the resin and high-quality fibres. In this presentation, the viable recycling methods are presented and discussed together with their LCA. Demonstrator products manufactured from fibres tows and materials with readout to the results are discussed in relationship with the material structure and composition.

#### Biography

Gary Leeke is the Chair of Chemical Engineering and Head of Bioenergy and Resource Management Centre at Cranfield University, UK. His research interests lie in the areas of recycling enabling technologies and resource efficiency. He has expertise in high pressure engineering and thermo-chemical processing, specifically in reaction engineering, separation technology, flow reactors, and their applications to polymer/composite processing and remanufacture, mixed plastic waste and the circular economy. He also leads the Exhume Project in UK investigating the deconstruction of fibre reinforced composites. He sits on the Composites Leadership Forum sustainability working group for composites UK.

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