



Green Manufacturing for the 21st Century Chemical Industry:

Case studies, methodologies and tools

CIA Chemical
Industries
Association

Working for chemical and
pharmaceutical businesses



24th May 2017 10:00 - 17:00

Green Chemistry Centre of Excellence, Department of Chemistry, University of York, UK

Increasing demand for chemicals worldwide, depleting resources, stricter legislation and the rising cost of waste disposal are placing increasing pressure on the chemical and related industries. For any organisation to survive in the current climate, the issue of sustainability must be fundamental to the way it operates.

This **free workshop** provides an exciting opportunity to gain advice and scientific expertise, explore a broad range of cutting-edge case studies on green chemical manufacturing and learn about the methodologies and tools available to facilitate practical solutions. The workshop is open to all with an interest in the future of sustainable manufacturing.

The programme for the day includes:

- Industrial case studies across a broad range of the manufacturing spectrum including **Croda International plc, Thomas Swan & Co. Ltd, GlaxoSmithKline plc** and **Biome Bioplastics Ltd**
- Insight into Industrial Decarbonisation and Energy Efficiency Roadmaps to 2050
- Drivers for change including the Business Case for Green and REACH
- Guidance on the transition to green manufacturing and circular economy
- Design and selection of greener solvents
- Platform Molecules: Using the Diverse Functionality of Bio-derived Building Block Chemicals for the Synthesis of Polymer and Solvents
- Online learning resources and associated tools including metrics and solvent selection
- Opportunities for knowledge transfer, discussion and networking

***A one-day symposium on greener and more sustainable chemical manufacturing co-organised by
CHEM21, the Chemical Industries Association and the Green Chemistry Centre of Excellence***

Register your place for free by Wednesday 17th May 2017 at <https://greenmanufacturing21.eventbrite.co.uk>

CHEM21 is Europe's largest public-private partnership dedicated to the development of manufacturing sustainable pharmaceuticals and brings together six pharmaceutical companies (GlaxoSmithKline, Bayer, Janssen, Orion, Pfizer and Sanofi), 13 Universities and four small to medium enterprises from across Europe (www.chem21.eu). CHEM21 has received funding from the Innovative Medicines Initiative Joint Undertaking under grant agreement n°115360, resources of which are composed of financial contribution from the European Union's Seventh Framework Programme. (FP7/2007-2013) and EFPIA companies' in kind contribution. www.imi.europa.eu

