Welcome To

Black and Green II

Tools for Sustainable Formulation



Black and Green? Tools for Sustainable Formulations

Part 2

10th November 2010 University of York, UK









Would like to thank our exhibitors and sponsors





ZINSSER ANALYTIC



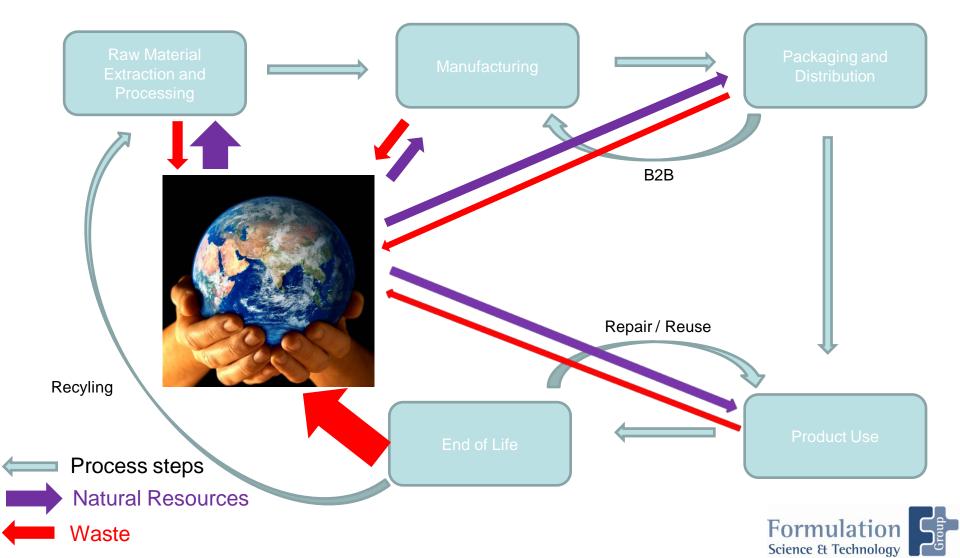


Background – Accelerating Change

- Old World
 - Oil (raw materials)
 - Bottom Line Economics
- New World
 - Less oil (raw materials)
 - Raw material instability
 - Regulation
 - Customer awareness
 - Triple Bottom Line:
 - Economics
 - Sustainability
 - Social accountability



Sustainability



Short Term / Long Term Drivers

Past		Now		Future	
Waste	Energy – \$\$	Ene	ergy – CO ₂	Energy –	\$\$\$\$ Energy – ?
ls Here	REACH				
Not Away		High	Global Warming		Peak Phosphate
Oz	zone	Human Hazard	Land Use	Peak Oil	Peak
Cost	Environme Cost	ental	Wa	ter	Coal



Sustainability

One World

- 1987 Brundtland Commission Report defined Sustainable Development as:
 - "Development that meets the needs of the present without compromising the ability of future generations to meet their own needs."
 - "Formulation that meets the needs of the present without compromising the ability of future generations to meet their own needs."



Black and Green I – April 14th UoB

External

- Impact of regulatory changes on sustainability of products in Crop Protection
- Sustainable materials in Fast Moving Consumer Goods Formulations: pressures and opportunities

Ingredients

- Silicone based solutions for sustainable building protection
- Waste minerals as functional fillers
- Formulation of barriers systems with clays for improved performance

Formulation

- Biofuels, opportunities and problems for formulations
- Air filled emulsions the ultimate low fat formulation
- More from Less encapsulated salt

Approach

High Throughput Formulation Technology - making more from less



Black and Green II Today's Programme

Ingredients

- The Role of Green Chemistry in Sustainable Formulations
- The Green and Sustainable Chelate
- The Hatch, Match and Dispatch of Nanomaterials

Formulation

- Sustainability in Coloration
- Reduction or elimination of waste from production / formulation
- Carbon Footprinting and Beyond for Decorative Paints
- The Impact of Formulation on Carbon Footprint

Business

Sustainability as a Key Strategic and Tactical Pillar



Networking / Learn by Experience

- We hope you will be able to see wisdom for your industry in what other industries have already done
- Wide Range of Industries
 - Talks span hair dye to chemicals, span paints to detergents
 - Delegate span inks to timber protection, flooring to pesticides
 - Exhibitors bring emerging critical technologies: automation & nanotechnology
- Skills
 - Formulation
 - Regulation, strategy, organic chemistry, inorganic chemistry, natural product extraction, particle growth, nanotechnology, automation,
- Experience
 - Carbon footprint workshop
 - Formulation is changing so we all need to learn



Agenda

- 10:00 Registration and Coffee
- 10:30 Welcome to Black and Green Part 2
- 10:35 Plenary
- 11:30 Session 1 Chair: Dr Simon Gibbon, AkzoNobel RD&I
- 12:30 Lunch, networking
- 13:20 The Impact of Formulation on Carbon Footprint Workshop
- 14:50 Coffee and Tea
- 15:00 Session 2 Chair: Dr David Higgins, FSTG
- 17:00 Close



Morning

- 10:35 The Role of Green Chemistry in Sustainable Formulations
 - Simon Breeden Green Chemistry, University of York
- Session 1 Chair: Dr Simon Gibbon, AkzoNobel RD&I
- 11:30 Sustainability in Coloration
 - Chris Pask, Dyecat
- 12:00 Dissolvine GL the green and sustainable solution for a diverse application base
 - Tony Minshull, AkzoNobel Functional Chemicals
- 12:30 Lunch networking



Afternoon

- 13:20 The Impact of Formulation on Carbon Footprint An Interactive Workshop
 - Hosted by Intelligent Formulation: Dr Jim Bullock, Intelligent Formulation Ltd, with contributions from Innospec, GSK and Chemistry Innovation KTN
- 14:50 Coffee and Tea
- Session 2 Chair: Dr David Higgins, FSTG



Afternoon

- Session 2 Chair: Dr David Higgins, FSTG
- 15:00 Carbon Footprinting and Beyond for Decorative Paints
 - Dr P L Taylor, AkzoNobel Decorative Paints
- 15:30 BASF Sustainability as a Key Strategic and Tactical Pillar
 - Dr. Geoff Mackey, Sustainable Development & Communications Director, BASF Europe North
- 16:00 Project ZEAL reduction or elimination of waste from production / formulation
 - Eddie Owen, GSK
- 16:30 The Hatch, Match and Dispatch of Nanomaterials
 - Prof. Ed Lester, Promethean Particles

