Global Research & Innovation in Plastics Sustainability

PROGRAMME

Tuesday 16th - Thursday 18th March 2021
Conference Opens For Attendees to Visit Exhibitors

KEYNOTES:
Introduction & Welcome - Alicia Greated, CEO, KTN
Prof. Sir Duncan Wingham OBE, CEO, Natural Environment Council, UKRI & Nick Cliffe, Innovate UK
Prof. Richard Thompson OBE, Director of the Marine Institute, University of Plymouth
Josephine Moe Christofferson, New Plastics Economy, Ellen MacArthur Foundation
Prof. John McGeehan, Centre for Enzyme Innovation, University of Portsmouth
Helen Jordan, Senior Recycling Executive, British Plastics Federation
Libby Peake, Head of Resource Policy, Green Alliance

PARALLEL SESSIONS

12:30 Global Investment & Initiatives to Improve the Sustainability of Plastics
Highlighting some of the organisations and government initiatives that are supporting sustainable plastic projects around the globe.
Chair: Kirsty Hewitson, Executive Director of Capability, KTN
- Paul Davidson, UKRI
- Kathryn Peretti, US Department of Energy
- Peter Skelton, WRAP
- Justin Wood, Alliance to End Plastic Waste
- Q&A

Focus on the Textiles & Fashion Sector
Highlighting the initiatives and innovations supporting the transition towards a more sustainable textiles & fashion sector. Key topics: WRAP Textiles 2030 Initiative, Innovative recycling technologies & solutions for PPE circularity.
Chair: Veronica Sanchez-Romaguera, KTN
Chair: David Moon, Head of Business Collaboration, WRAP
- Cyndi Rhoades, Worn Again Technologies
- Tom Dawson, Rutherford Research Ltd.
- Prof. Peter Hopkinson, Exeter Centre for Circular Economy
- Q&A

Smart Sustainable Plastic Packaging
Highlighting some of what the Smart Sustainable Plastic Packaging Challenge is achieving in the UK & the innovations that can contribute to less packaging waste.
Chair: Sally Beken, KTN & UKCPN
- Thomas Webb, University of Sheffield
- Jo Liang, Caulibox
- Geoff Brighty, RenewELP
- Neil Court Johnson, Zotefoams
- Q&A

Plastics Research & Innovation Fund: innovations to improve polymer circularity
Showcasing some of the outcomes of innovation projects from the Plastics Research and Innovation Fund.
Chair: Nick Cliffe, Innovate UK
- Alec Mills, Dame
- Marc Rodriguez, Xampla
- James Longcroft, Choose Water
- Marie Harley, Blue Castle
- James Comerford, Addible
- Sam Boex, Flexi-Hex
- Q&A

Pitches: Start-up Initiatives to Reduce Plastic Waste - sponsored by Potter Clarkson LLP
Showcasing entrepreneurs & start-ups that are undertaking disruptive innovation with plastic-related products & processes
- Jason Teng, Potter Clarkson
- Circla
- Interface Polymers
- Lucy Rose Ltd.
- Nanoloom
- Our Own World
- Reuse Revolution

PARALLEL SESSIONS
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<th>Time</th>
<th>Session</th>
<th>Chair/Lead</th>
<th>Panelists</th>
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<tr>
<td>13.45</td>
<td>Biopolymers &amp; Sustainability</td>
<td></td>
<td>David Newman, Bio-Based &amp; Biodegradable Industries Association</td>
<td>Highlighting the functionality, value chain &amp; innovations in biopolymers.</td>
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<td>Focus on Microfibres</td>
<td>Alice Horton, UK National Oceanography Centre</td>
<td>Sophie Mather, The Microfibre Consortium</td>
<td>Investigating the impact of microfibres in textiles &amp; fashion.</td>
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<td>Plastics Research and Innovation Fund: Designing Sustainable Plastic Solutions</td>
<td>Richard Cooper, KTN</td>
<td>Graham Bonwick, AgrifoodX</td>
<td>Highlighting the role of polymer innovations in reducing microfibre pollution.</td>
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<td>15.00</td>
<td>Compostables &amp; Biodegradation</td>
<td>Rachael Rothman, Grantham Centre for Sustainability</td>
<td>David Newman, Bio-Based &amp; Biodegradable Industries Association</td>
<td>Understanding the lifecycle &amp; behaviours of compostable packaging &amp; biodegradable polymers.</td>
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<td>Films &amp; Flexibles</td>
<td>Sally Beken, KTN &amp; UKCPN</td>
<td>Kayleigh McEwan, Haydale</td>
<td>Highlighting some of the issues &amp; solutions to flexible packaging.</td>
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<td>Future Packaging: implications of recycled materials on food contact</td>
<td>Richard Cooper, KTN</td>
<td>Mike Turner, Food Standards Agency</td>
<td>Focussing on issues around increasing recycled plastics in food contact.</td>
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<td>WRAP Flagship Recycling &amp; Re-use Projects</td>
<td>Claire Shrewsbury, WRAP</td>
<td>Tom Rose, Impact Solutions</td>
<td>Showcasing projects funded by the WRAP Flagship Fund.</td>
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<td>16.15</td>
<td>International Reception Hosted by UK's Department for International Trade</td>
<td>Deborah Sacks, Waste &amp; Resources Specialist, Department for International Trade</td>
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<td>This session is open to all conference attendees &amp; will focus on support available in the UK and internationally to work on plastics sustainability, including access to research &amp; innovation partners.</td>
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Pitches: New Innovations in Plastic Circularity

Showing organisations looking at innovation with plastic relating to current products and processes.

- • Qiaofeng Zheng, University of Cambridge
- • AgrifoodX: Ecogif; Hive Composites; Inspectron; KCC; NeoGenome; Zotefoams
- • Arun Shrestha
- • Emma Fadlon, KTN: Pitching to Investors - A Due Diligence Guide

Plastics Research and Innovation Fund: Designing Sustainable Plastic Solutions

Highlighting the ways in which innovation in plastics design will lead to less persistent polymers in the environment.

- • Graham Bonwick, AgrifoodX
- • John Williams, Aquapak
- • Claire Rampen, Reath

Fireside Chat: Investing in sustainability of plastics

Chair: Emma Fadlon, KTN

- • Jamie Rowles, Sky Ocean Ventures
- • Patricia Syrva, Green Angels Syndicate
- • Roderick Beer, UK Business angels Association
- • Dhruv Boruah, Common VC
- • Q&A
DAY 2
### Morning: 09.00 - 12.30

#### 09.00 EXHIBITION OPENS

#### 09.30 Welcome to Day 2 by the UK Circular Plastics Network

#### 09.40 What Does the Future Look Like for Polymers? Prof. Ed Kosior, Managing Director, Nextek

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<th>Time</th>
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| 10.15 | Emerging Global Agreements Affecting Plastics                                                           | Prof. Steve Fletcher, UN International Resource Panel, University of Portsmouth  
|       |                                                                                                           | Shahriar Hossain, ESDO  
|       |                                                                                                           | Sian Sutherland, A Plastic Planet                                                                           |
|       | Sustainable Polymer Matrix Composites                                                                     | Malcolm Forsyth, Composites UK                                                                                 |
|       |                                                                                                           | Tim Young, National Composites Centre  
|       |                                                                                                           | Dominic Hopwood, Bitrez  
|       |                                                                                                           | Jonathan Swanston, Jiva Materials  
|       |                                                                                                           | Q&A                                                                                                           |
| 11.30 | Sustainability of Medical Plastics                                                                        | Mehdi Tavakoli, KTN                                                                                           |
|       |                                                                                                           | Prof. Arthur Garforth, University of Manchester  
|       |                                                                                                           | Danielle Purkiss, Ayse Lisa Allison & Charnett Chau, UCL  
|       |                                                                                                           | Mohammed Yasin, Hydrogel Healthcare                                                                            |
|       |                                                                                                           | Q&A                                                                                                           |
| 11.30 | Focus on: plastics in construction & the built environment                                               | Veronica Sanchez-Romaguera, KTN                                                                                 |
|       |                                                                                                           | Katherine Adams, Alliance for Sustainable Building Products  
|       |                                                                                                           | Lynne Potter, MACE Group  
|       |                                                                                                           | Richard McKinlay, Axion Group  
|       |                                                                                                           | Q&A                                                                                                           |
| 11.30 | Capturing Fugitive Plastics                                                                             | Adela Putinelu, British Plastics Federation  
|       |                                                                                                           | Adam Root, Founder & CEO, Matter                                                                               |
|       |                                                                                                           | Lorna Anguilano, Brunel University London, CGG Robertson, Swansea University  
|       |                                                                                                           | Q&A                                                                                                           |
|       | Implications of Plastics in the Environment                                                              | John McGeehan, Centre for Enzyme Innovation, University of Portsmouth  
|       |                                                                                                           | Eva Snijder, Ocean Clean Up  
|       |                                                                                                           | Tamara Galloway, University of Exeter  
|       |                                                                                                           | Denise Mitrano, ETHZurich  
|       |                                                                                                           | Q&A                                                                                                           |
### Afternoon: 13.00 - 17.00

#### 13.00  Regulation & Trends

Government Policy towards working with industry and consumers on Plastics Sustainability and the progress being made by all sides.

**Chair:** Robert Quarshie, KTN
- Joe Papineschi, Eunomia
- Helen Bird, WRAP: The UK Plastics Pact
- Margaret Bates, Executive Director, OPRL
- Matt Davies, British Plastics Federation
- Q&A

#### 14.15  Material Flow

Highlighting some of the research by UK universities that are gaining a better understanding of plastic material arisings across the value chain.

**Chair:** Rachael Rothman, University of Sheffield
- Rebecca Colley, University of Northampton
- Jonathan Cullen, University of Cambridge
- Roland Getor, Logistics Institute Hull
- Prof. Michael Shaver, Sustainable Materials Innovation Hub, The University of Manchester
- Q&A

#### 15.30  Women Involved in Sustainability in the Plastic Industry

This session hosted by Women in Plastics Network, a professional initiative that recognises achievement, encourages development and supports diversity and equality across the plastics industry.

**Chair:** Grace Nolan, Women in Plastics Network
- Sally Beken, UK Circular Plastics Network
- Katherine White, Plastribution
- Kirsty Wood, Hexpol TPE
- Anthea Blackburn, Econic Technologies
- Q&A

#### 14.30  Focus on: Tyre Elastomers

The role of elastomers on producing persistent polymer microparticles in the environment and some ways to mitigate them or re-utilise at end of life.

**Chair:** David Greenfield, Director, SOENECS
- Graham Willson, BTMA
- Hanson Cheng, The Tyre Collective
- Melissa Sterry, Design Scientist, Biroratorium
- Christie Raptaki, Director, Roadfill
- Adrian Kelly, Bradford University

#### 15.45  Sustainable Manufacturing

Making manufacturing more sustainable through process and supply chain innovation.

**Chair:** Kevin Hallas, KTN
- Sarah Karmel, Photocentric
- Christina King, Tribosonics
- Sibele Cestari, Queen’s University Belfast
- Jacob Goodman, Rivian
- Q&A

#### 16.00  Future Packaging: implications of novel materials on food contact

Focussing on issues around using new materials in food contact packaging and the challenges, limitations and opportunities for new materials.

**Chair:** Richard Cooper, KTN
- Vincent Greenwood & Tim Chandler, Food Standards Agency
- Emma Bradley, FERA
- Katherine Imbert, BSI
- Q&A

#### 16.15  Plastics in Agriculture

Highlighting how plastics are used in agriculture, the challenges faced in using them sustainably and the need for behaviour change, as well as solutions & innovative business models.

**Chair:** Richard Cooper, KTN
- Mike Baxter, Berry RPC
- Richard Bruce, University of Sheffield
- Barry Friesen, CleanFarms
- Q&A

#### 16.30  Phantom Plastics on Plastic Waste

What does the evidence say about plastics in the environment?

**Chair:** Steve Morris, KTN
- Chris deArmitt, Phantom Plastics
- Q&A

#### 16.45  Regulation & Trends

Government Policy towards working with industry and consumers on Plastics Sustainability and the progress being made by all sides.

**Chair:** Robert Quarshie, KTN
- Joe Papineschi, Eunomia
- Helen Bird, WRAP: The UK Plastics Pact
- Margaret Bates, Executive Director, OPRL
- Matt Davies, British Plastics Federation
- Q&A
Morning: 09.00 - 12.30

09.00  EXHIBITION OPENS

09.30  Welcome to Day 3 by the UK Circular Plastics Network

09.35  Poster Session Finalists, Hosted by David Hughes, Polymer Society Chair, IOM3
- David and the six finalists will talk about their sustainable plastic innovations. Delegates vote for the winner, which will be announced at 15.15 at the Conference Close.

10.15  Sustainable Design with Plastics
This session will focus on how designers take an innovative approach to the sustainable use of plastics in product design.
Chair: Anne Toomey, RCA
Facilitator; John Bound, KTN/MaDE
- Matthew White, Spark Create
- Adam Fairweather & Emily Skinner, Smile Plastics
- Q&A

10.15  Chemical Recycling Today
Perspectives, challenges & opportunities from the established chemical sector.
Chair: Peter Clark, KTN
- Nieves Gonzalez, SUSChem & CEFIC Plastics/SIRA
- Christian Lach, BASF
- Dmytro Stratiychuk-Dear, Dupont Teijen Films
- Sheena Hindocha, KTN
- Q&A

11.15  Innovative Business Models
Innovative business models beyond packaging to achieve plastic sustainability.
Chair: Kevin Hallas, KTN
- Stuart Hill, AD-ENG
- Arabella Turek, Petit Pli
- Matt Paskin, Whitecroft Lighting
- Q&A

11.30  Citizen Engagement
Chair: Prof. Seonaidh McDonald, UKRI
- Laura Copsey, WRAP
- Alexandros Skandalis, Lancaster University
- Nur Baiti Wulandari, University of Hull
- Ayse Lisa Allison, University College London
- Q&A

11.30  Chemical Recycling Tomorrow
Highlighting chemical recycling technologies in development.
Chair: Matthew Reeves, KTN
- Geoff Brighty, RenewELP
- Daniel Stewart, ViridiCO2
- Anh Phan, Newcastle University
- Taylor Uekert, University of Cambridge
- Q&A

11.30  Re-use & Refill: Making it Mainstream
What have we learnt so far from re-use & refill and where will the biggest wins be? What are the formats and scales these are likely to work at?
Chair: Sara Banning, UKRI
- Rorie Parsons, University of Sheffield
- Garrath Wilson, Loughborough University
- Anna Pitt, SESI Food & Household Refills LLP
- Jo Morley, City to Sea
- Q&A
**Afternoon: 13.00 - 15.30**

**13.00**  
**Smart Technologies: Tracking, Marking & AI**  
A focus on AI technologies leading to more accurate tracking, sorting and collection of polymer materials.  
Chair: Prof. Michael Shaver, The University of Manchester  
- Carrie George & Natalie King, Everledger  
- Alex Cole, CPI  
- Nathalie Muller, Inspectron  
- Michael Groves, Topolytics  
- Q&A

**13.00**  
**Enzymatic Recycling**  
A focus on the role of enzymes in dealing with end of life commodity polymers.  
Chair: Rachael Rothman, University of Sheffield  
- Rory Miles, University of Portsmouth  
- Jose I. Jimenez, Imperial College London  
- Pattanathu Rahman, Teegene & Tara Biologics  
- Gregg Beckham, National Renewable Energy Laboratory, USA  
- Q&A

**13.00**  
**Behavioural Insights**  
What are we learning from behaviours that will lead to a more sustainable use of polymers in the future?  
Chair: Prof. Tony Ryan, University of Sheffield  
- Zaneta Muranko, Imperial College London  
- Peter King, University of Bath  
- Keelan Meade, University of Sheffield  
- Q&A

**14.15**  
**Panel Discussion: Which Innovations Will Make the Biggest Impacts to Plastics Sustainability in the Future?**  
Live question & answer session with expert panel. Questions from invited sector journalists & live audience.  
Chair & Moderator: Adam Read, Suez  
- Paul Davidson, UKRI  
- Prof. John McGeehan, University of Portsmouth  
- Matt Davies, British Plastics Federation  
- David Greenfield, SOENECS  
- Paul Mines, Biome  
- Sally Beken, UKCPN & KTN  
- Libby Peake, Green Alliance  
- Emily Penn, eXXpedition

**15:15**  
**Awarding of Poster Prizes**  
Announcement of the winner of the IOM3 Poster Competition, hosted by David Hughes, Polymer Society Chair, IOM3

**15:30**  
**Close**
Please make use of the breaks between sessions to network, attend the virtual coffee booth, and visit exhibitor booths. You will be able to access the event hub outside of session times and recordings will be made available after the event.

Thank you and enjoy GRIPS 2021

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Sustainable Materials Innovation Hub