

# CLOSING THE PLASTICS CYCLE – A REVIEW OF CURRENT BEST PRACTICE AROUND THE WHOLE CYCLE

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24 MAY 2019

Institution of  
**MECHANICAL  
ENGINEERS**

2 July 2019  
**One Birdcage Walk, London**

Process Industries Division  
Oil, Gas and Chemical Committee  
**Seminar**

## KEY SPEAKERS INCLUDE:

Barry Turner, Plastics and Flexible Packaging, Group Director,  
**British Plastics Federation**

Dale Rautenbach, Systems Engineer,  
**Recycling Technologies**

Sarah Ottaway, Municipal Recycling Manager,  
**SUEZ Recycling and Recovery UK**

Helen Bird, Strategic Engagement Manager,  
**WRAP**



## SUPPORTING ORGANISATIONS:



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Book your place at: [www.imeche.org/plastics](http://www.imeche.org/plastics)

# CLOSING THE PLASTICS CYCLE – A REVIEW OF CURRENT BEST PRACTICE AROUND THE WHOLE CYCLE

2 July 2019, One Birdcage Walk, London

**DO YOU STOP AND THINK ABOUT THE PLASTIC WASTE WHEN YOU ARE DRINKING A FIZZY DRINK OR EATING A BAG OF CRISPS? OUR ENVIRONMENT WAS NOT MADE TO MANAGE PLASTIC WASTE; IT IS A MAN-MADE PRODUCT FOR WHICH WE MUST TAKE RESPONSIBILITY; IT IS SIMPLY NOT ACCEPTABLE TO CHUCK IT INTO LANDFILL OR THE SEA. THERE IS GOOD NEWS, IN THE UK WE RECOVER 85% OF OUR HDPE MILK BOTTLES, BUT THEN WHAT? WOULD IT BE BETTER OVERALL TO INCINERATE ALL OF OUR WASTE AND RECOVER THE ENERGY OR PYROLYSE WASTE PLASTIC TO FUEL?**

The plastics industry is set for a revolution. Taking a circular economy approach, the plastics industry is set to review how plastic products can be re-used in different forms, giving products a greater life expectancy. From a plastic product's design, through to its manufacturing and then recyclability a circular economy will ensure that all plastics are as recyclable as possible and if not that they are managed in the most appropriate and efficient way.

The purpose of this seminar is to review current practice, with case studies from players around the whole cycle. The agenda will highlight what is going well and what is not. Questions will be considered such as should waste be incinerated for energy recovery or recycled (or from a purely carbon mitigation viewpoint somehow be landfilled). The event will also discuss how are engineers contributing and what technical challenges are still extant.

## ATTEND THIS SEMINAR AS IT WILL:

- Deliver greater awareness around the whole plastics cycle
- Showcase the latest solutions that are helping to manage plastics waste in the UK
- Provide updates from industry as they seek to support the circular economy
- Help educate those involved in the plastics cycle to consider stronger prevention methods

## KEY PROGRAMME HIGHLIGHTS:

- The **British Plastics Federation** highlight what they are doing to support plastic waste reduction and how stakeholders are reducing waste cycles through the implementation of new technologies
- **SUEZ Recycling and Recovery UK** shed light on policy evolution and the implications this will have for companies including Extended Producer Responsibility and taxes and levies to be paid
- **WRAP** discuss their roadmap to transform the way that the UK makes, uses and disposes of plastic including elimination of problematic single-use plastics by 2025
- **Recycling Technologies** provide an overview of Project Lodestar and how it is creating a pathway to recycle 'all plastics' by combining state-of-the-art mechanical and feedstock recycling
- **Axion** discuss the circular economy in action with insight on PVC and automotive waste challenges

## ORGANISING COMMITTEE:

Process Industries Division  
Oil, Gas and Chemical Committee  
**Institution of Mechanical Engineers**

## MEMBER CREDIT:

Rodney Gilmour, Oil, Gas and Chemical Committee  
**Institution of Mechanical Engineers**

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# PROGRAMME

## TUESDAY, 2 JULY 2019

08:30 REGISTRATION AND REFRESHMENTS

09:00 **CHAIR'S OPENING REMARKS**  
Rodney Gilmour, Oil, Gas and Chemical Committee, Institution of Mechanical Engineers

09:10 **LET'S SET THE PLASTICS SCENE – WHAT IS ACTUALLY GOING ON**  
Barry Turner, Plastics and Flexible Packaging, Group Director, British Plastics Federation

**MORNING  
KEYNOTE**

### INDUSTRY CASE STUDIES

09:40 **ARLA FOODS' APPROACH TO SUSTAINABLE PACKAGING AND WASTE REDUCTION**

10:05 **CREATING A CLOSED-LOOP SYSTEM**

10:30 **QUESTION AND ANSWER SESSION**

10:45 NETWORKING REFRESHMENT BREAK

11:15 **THE POLICY EVOLUTION – WHAT'S ON THE PLASTICS HORIZON**  
Sarah Ottaway, Municipal Recycling Manager, Suez Recycling & Recovery UK

11:45 **PREVENTION RATHER THAN MANAGEMENT**  
Peter Jones OBE, Advisor, Recycling Technologies  
Further panellists to be announced

**PANEL  
DISCUSSION**

- Should the attitude towards plastic waste shift from management?
- What can be done in the design phases of plastic products to prevent waste?
- Can engineers help shift this mind-set of prevention rather than management?

12:45 **QUESTION AND ANSWER SESSION**

13:00 NETWORKING LUNCH

### CURRENT MEASURES AND PROJECTS

14:00 **THE ROADMAP TO 2025 – THE PLASTICS PACT**  
Helen Bird, Strategic Engagement Manager, WRAP

**AFTERNOON  
KEYNOTE**

14:30 **DRIVING THE CIRCULAR ECONOMY ACROSS LONDON**  
Antony Buchan, Head of Resource London, London Waste and Recycling Board  
Natalia Agathou, Advance London Business Advice Manager, London Waste and Recycling Board

15:00 **PROJECT LODESTAR – THE FUTURE OF PLASTIC RECYCLING**  
Dale Rautenbach, Systems Engineer, Recycling Technologies

15:15 **QUESTION AND ANSWER SESSION**

15:45 NETWORKING REFRESHMENT BREAK

16:15 **PLASTICS IN THE ENVIRONMENT**  
Dr Matt Johnson, Lecturer, Physical Geography, University of Nottingham  
Tom Stanton, PhD Researcher, University of Nottingham  
Dr Harvey Wood, Director, Clean Rivers Trust

16:45 **CIRCULAR ECONOMY IN ACTION**  
Richard McKinlay, Head of Circular Economy, Axion

17:15 **QUESTION AND ANSWER SESSION**

17:30 **CHAIR'S CLOSING REMARKS**

17:40 END OF SEMINAR

**For the most up-to-date and detailed programme for the event, please visit:**  
[www.imeche.org/plastics](http://www.imeche.org/plastics)

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

# HOW TO BOOK YOUR PLACE

## FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

Delegate Type	EARLY BIRD RATE Until 24 May 2019	STANDARD RATE
Member, Institution of Mechanical Engineers / Supporting Organisation	£220 + VAT = £264	£275 + VAT = £330
Non-member	£255 + VAT = £306	£305 + VAT = £366
Full-time Student/Retired	£100 + VAT = £120	£100 + VAT = £120

## THREE WAYS TO BOOK

- 1 online:  
[www.imeche.org/plastics](http://www.imeche.org/plastics)
- 2 email:  
[eventenquiries@imeche.org](mailto:eventenquiries@imeche.org)
- 3 phone:  
**+44 (0)20 7973 1251**

Please read the information listed below as each booking is subject to the Institution's standard terms and conditions.

### CONDITIONS OF BOOKING

Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

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Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. The Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

### LIABILITY

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### CONFERENCE VENUE

Institution of Mechanical Engineers  
One Birdcage Walk  
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## OTHER EVENTS TO LOOK FOR



### LOW CARBON TRANSPORT: ENGINEERING THE FUELS OF THE FUTURE

9 July 2019, London

Address the latest developments in low carbon fuels including biofuels, power to liquid and ammonia so your business can explore how to incorporate them into your power sources. Gain insight into low carbon fuels in use by the automotive and marine sectors to see how engineering challenges are being met. Discuss how to overcome the barriers to widespread adoption with key cross-sector players.

[www.imeche.org/lowcarbon](http://www.imeche.org/lowcarbon)



### INSTITUTION OF MECHANICAL ENGINEERS' ANNUAL DINNER 2019

21 November 2019, Manchester

This year the Institution of Mechanical Engineers Annual Dinner takes place at the Science and Industry Museum in central Manchester. Why not take this perfect opportunity to entertain clients, network with colleagues and reward employees in the company of the most influential engineers and industry leaders?

[www.imeche.org/annualdinner](http://www.imeche.org/annualdinner)

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