



# **RRFW ANNUAL CONFERENCE**

**1-2 DECEMBER 2016**

***DELEGATE INFORMATION***

## CONFERENCE LOCATION

### ADDRESS

Weetwood Hall Conference Centre  
and Hotel  
Otley Road  
Leeds  
LS16 5PS

Tel: +44 (0)113 230 6000

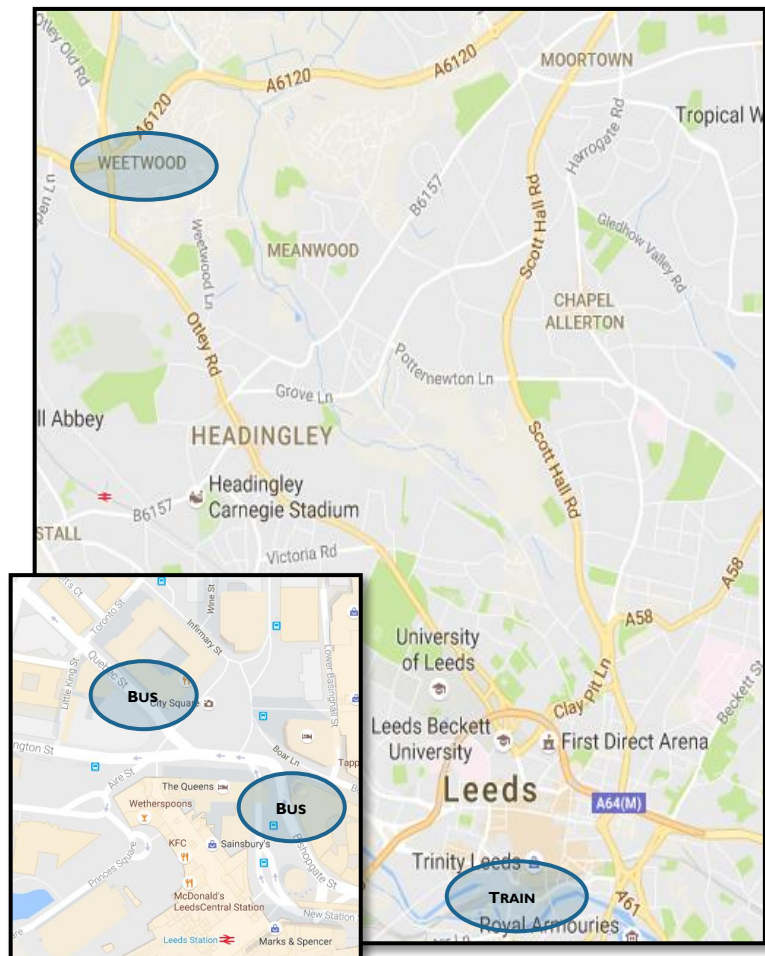


### HOW TO GET THERE

#### RAIL TO LEEDS CITY STATION

Take a taxi from the Station to Weetwood Hall Hotel. This should take about 20 minutes and cost approx. £10. If travelling in peak traffic times you should allow 30 – 40 minutes for your journey.

Alternatively, take bus 1 “Holt Park” from Bishopgate St or Quebec St. There is a regular bus service with buses departing every 10 minutes. Travelling time ca. 30 - 40 minutes.



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## ROAD

Please click on the link below for a map and detailed directions

<http://www.weetwood.co.uk/contact-us/maps-directions/>

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## CAR PARKING

Weetwood Hall has ample parking space for visitors and residents.

## REGISTRATION

Registration opens on 1 December at 9:30 in the in the Bramley and Lawnswood breakout area on the ground floor, clearly sign-posted from the Conference Reception. The registration desk will stay open throughout the day. Registration re-opens on 2 December at 8:30.

## PROGRAMME OVERVIEW

### THURSDAY, 1 DECEMBER 2016

10:30 – 13:00 Resource Recovery from Waste Projects Showcase

13:00 – 14:15 Lunch break with Exhibition and Posters

14:15 – 17:15 Best Practice Session for Policy-making and Regulating Resource Recovery from Waste

17:30 – 19:00 Drinks Reception

19:00 Dinner

### FRIDAY, 2 DECEMBER 2016

Parallel workshops:

9:15 – 17:00 Mini-project Workshop

9:30 – 14:00 Co-creation of a Shared Vision for Waste and Resource Management in the UK (option to join mini-project workshop in the afternoon)

12:00 – 13:00 Lunch break with Exhibition and Posters

13:00 – 14:00 Matrix Networking

## RESOURCE RECOVERY FROM WASTE PROJECTS SHOWCASE

This session introduces the six Resource Recovery from Waste projects, provides an overview of key results and identifies directions for further research.

### LAWNSWOOD SUITE, 10:30 – 13:00, 1 DEC.

10:30 **Opening**

*Dr. Ken OCallaghan*

10:40 **C-VORR: Complex Value Optimisation for Resource Recovery from Waste**

*Prof. Phil Purnell, University of Leeds*

11:00 **MeteoRR: Microbial Electrochemical Technology for Resource Recovery**

*Prof. Ian Head, Newcastle University*

11:20 **B3: Beyond Biorecovery: Environmental Win-Win by Biorefining of Metallic Wastes into New Functional Materials**

*Prof. Lynne Macaskie, University of Birmingham*

11:40 Refreshment break

12:00 **R3AW: Resource Recovery and Remediation of Alkaline Wastes**

*Dr. Will Mayes, University of Hull*

12:20 **INSPIRE: In-situ Recovery of Resources from Waste Repositories**

*Dr. Devin Sapsford, University of Cardiff*

12:40 **AVAnD: Adding Value to Ash and Digestate: Developing a Suite of Novel Land Conditioners and Plant Fertilisers from the Waste Streams of Biomass Energy Generation**

*Prof. Kirk Semple, University of Lancaster*

## EXHIBITION

Meet our partners at the RRfW exhibition, share your vision for waste and resource management and identify pathways for further research.

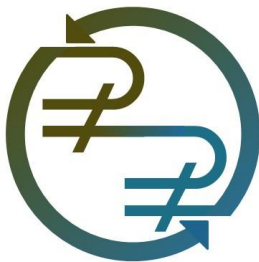
**BRAMLEY ROOM, FROM 9:30 1 DEC. UNTIL 14:00 2 DEC.**



University of Cardiff & INSPIRE



Nutrient Platform UK



Resource Recovery from Waste programme



Anaero Technology Ltd.



Wilson Bio-Chemical Ltd.



UNIVERSITY OF LEEDS

Knowledge Transfer Partnerships & Impact Accelerator Accounts, University of Leeds



DTC in Low Carbon Technologies, University of Leeds



BioVale Ltd



## POSTER PRESENTATIONS

Find out more about the RRfW projects, meet our partners and get the latest research results.

**BRAMLEY ROOM & BREAK-OUT AREA, FROM 9:30 1 DEC. UNTIL 14:00 2 DEC.**

	<b>Name</b>	<b>Poster Title</b>
1	Miller Camargo-Valero	NPK -Nutrient Platform UK
2	Andy Ross	Opportunities for valorisation of waste using hydrothermal processing
3	Christian Aragon-Briceno	Potential of sewage sludge for energy and nutrient recovery
4	Kiran Parmar	Integration of Hydrothermal Carbonisation with Anaerobic Digestion: Opportunities for Valorisation of Digestate.
5	Carmen Falagan Rodriguez	Biological recovery of valuable metals from mine wastes
6	Helena Gomes	Resource Recovery and Remediation of Alkaline Wastes
7	Iryna Mikheenko and Lynne Macaskie	Novel approach to bio-Pd and bio-Pd/Au bionanocatalysts synthesis using electromagnetically stressed bacteria
8	Katie Lasaridi	Optimization of WEEE collection for rare earth and other critical metals recovery
9	Interactive	Identifying Directions for Follow-on Research on Resource Recovery from Waste
10	Interactive	Co-producing a Shared Vision for Waste and Resource Management
11	Anne Velenturf	Governmental Perspective on Waste and Resource Management
12	Helen Baxter et al.	MAPeRR – Multi-parametric Assessment of Policies for Resource Recovery from Waste
13	Eileen Yu	Liquid fuel and bioenergy supply from CO2 reduction
14	Alfonso Lag-Bretons	Digestate and ash blends effects on planted and unplanted soils under glasshouse conditions
15	Kirk Semple	Bioenergy wastes and soil fertility
16	David Tompkins	Digestates in the UK: Will they ever be a valued resource?

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|----|-------------------|---|
| 17 | Danielle Sinnett  | Going to waste? Mineral sites, nature conservation and cultural heritage  |
| 18 | Hitesh Boghani    | Addressing the scaling-up issues of bioelectrochemical systems  |
| 19 | Devin Sapsford    | INSPIRE   |
| 20 | Richard Crane     | Nanoscale zerovalent iron particles for the in situ synthesis of copper nanoparticles from copper bearing waste water |
| 21 | Goran Rashid      | Enhancement of Biomethane production using Bacterial Lignin-degrading strains   |
| 22 | Mobolaji Shemfe   | Software development for Bioelectrochemical Systems Modelling   |
| 23 | Jhuma Sadhukhan   | Process Systems Engineering and Sustainability Analysis Approach for Competitive Biorefinery Designs                  |
| 24 | John Chachladakis | CVORR: Complex Value Optimisation for Resource Recovery   |
|    | Rick Stuart       | Environmental Information Data Centre   |
|    | Lucie Pfaltzgraff | Promoting Bio-innovation in Europe  |

## BEST PRACTICE SESSION FOR POLICY-MAKING AND REGULATING RESOURCE RECOVERY FROM WASTE

What would the future waste and resource management landscape ideally look like in the UK? And how can policy-makers and regulators support the transition towards sustainable waste management? This session presents positive examples demonstrating how policy and regulation can support change processes.

### LAWNSWOOD SUITE, 14:15 - 17:15 | DEC.

14:15 **Opening**

14:20 **From Waste to Resource Productivity**

*Prof. Mike Edbury, Government Office for Science*

14:50 **UN Sustainable Development Goals: Implementing Sustainable Production and Consumption Practices**

*Emma Ryan, Bioregional*

15:10 **Industrial Symbiosis: A Pillar for UK Industrial Strategy**

*Peter Laybourn, International Synergies Ltd*

15:30 Refreshment break

15:50 **Collaborating for Changing Waste and Resource Management Practices**

*Dr. Ken O'Callaghan, Ablephraser & former DEFRA*

16:10 **Development of Industry Codes of Practice - Lessons Learned**

*Rob Sweeney, CL:AIRE*

16:30 **Practice and Collaboration for Circular Economies (from Plastics to Partnerships)**

*John Ferguson, EcoldeaM Ltd & former SEPA*

16:50 **Discussion**



## ACCOMMODATION, DRINKS RECEPTION & DINNER

### REFRESHMENTS, LUNCH, RECEPTION AND DINNER

Refreshments, lunches and the drinks reception will be in the breakout area, outside the Lawnswood Suite and Bramley Room, at the times stated in the programme.

On the 1<sup>st</sup> of December dinner will be served in the hotel's Woodlands Restaurant at 19:00.

### URGENT MESSAGES

Messages may be telephoned to the Conference Reception at the hotel on T: +44 (0)113 388 5829.

### RESIDENT DELEGATES

If you reserved a hotel room (check on your Eventbrite ticket), you should check-in at the main reception desk before the drinks reception and dinner.

A buffet breakfast is served from 07:00 to 09:30 in the Woodlands Restaurant.

Residents should vacate their room on the day of their departure no later than 10:00. There is a cloakroom where luggage can be stored. Please ask reception if required. All hotel extras, eg additional meals/refreshments, telephone calls, papers, must be paid for by delegates on departure.

## MINI-PROJECT WORKSHOP

*This workshop brings together RRfW's (post) doctoral researchers, invited guests from industry and governmental organisations, and our funders. We will identify ideas for collaborative research projects. This year's mini-project call offers up to £10,000 for successful applications including placements of our researchers with companies and governmental partners or vice versa.*

### LAWNSWOOD SUITE A, 9:15 – 17:00

9:15 **Opening**

*Anne Velenturf, Resource Recovery from Waste*

9:25 **Identifying shared research interests**

10:20 **Mini-project intentions & scope**

*Sally Reid, NERC*

10:40 Refreshment break

11:00 **Identifying project ideas & collaborations**

12:00 **Lunch break with exhibition and posters**

*Joined by co-creation workshop participants.*

13:00 **Matrix networking to identify transdisciplinary collaborations**

*Meet industry partners who could potentially join your mini-project proposal, host/participate in a placement or collaborate with you for further research funding.*

14:00 **Draft mini-project concepts**

15:15 Refreshment break

15:30 **Individual project-concept advice with the funder**

16:30 **Finalise project concepts & Follow-up planning**

17:00 **Close**

## CO-CREATION OF A SHARED VISION FOR WASTE AND RESOURCE MANAGEMENT IN THE UK

RRfW aims to develop a shared vision for resource and waste management in the UK. The academic partners in the programme started formulating such vision. To ensure the vision is realistic and ultimately can be implemented, it is important to include the views of our partners in government and industry as well as the general public.

### LAWNSWOOD SUITE B, 9:30 – 14:00

**9:30** This workshop offers our industry partners the opportunity to formulate, share and join-up perspectives regarding:

1. Their ideal vision for the waste and resource management landscape in the UK
2. How industry could contribute to realising such vision

The shared vision will be used to drive transition processes in relevant arenas such as policy-making, regulation and industry. Read more about our co-creation process in our recent [blogpost](#) on LinkedIn.

**12:00 Lunch break with exhibition and posters**

Join participants from the mini-project workshop for lunch and find out more about the on-going collaborative research within the Resource Recovery from Waste programme.

**13:00 Matrix networking to identify transdisciplinary collaborations**

Structured networking session for our industry partners and researchers to identify forthcoming collaborative research opportunities. Ideas for research projects could be integrated directly into mini-project proposals in the parallel workshop (see above) including placements. Alternatively, research ideas could be followed up during our scheduled grant application processes in 2017.

**14:00 Close and Option to join mini-project workshop**

## CONFERENCE DELEGATES

First Name	Surname	Job Title	Affiliation
Ana	Angulo-Santos	PhD Student	University of Leeds
Christian	Aragon-Briceno	PhD Student	University of Leeds
Gemma	Ashman	Management Trainee	Singleton Birch
Malcolm	Bailey	MD	Link2Energy Ltd
Helen	Baxter	PDRA	University of Hull
Edgar	Blanco	Managing Director	Anaero Technology Ltd
Hitesh	Boghani	Research Fellow	University of South Wales
Andrew	Brown	Professor of Economics and Political Economy	Leeds University Business School
Ian	Burke	Associate Professor	University of Leeds
Jonathan	Busch	Research Fellow	University of Leeds
Miller Alonso	Camargo-Valero	Lecturer	University Of Leeds
Henriette	Christensen	Research Technician	Newcastle University
Beate	Christgen	Research Associate	Newcastle University
Mohammed	Chunggaze	Research and Innovation Development Manager	University of Leeds
Richard	Crane	Research Associate	Cardiff University
Mike	Edbury	Head of Risk & Regulation, Growth & Security Team	Government Office for Science
Carmen	Falagan	Research Officer	Bangor University
John	Ferguson	Director	EcoldeaM Ltd
Jean-Marie	Fontmorin	Research Associate	Newcastle University
Andrew	Goddard	R&D Manager	Freeland Horticulture Ltd
Helena	Gomes	Research Associate	University of Hull
John	Hahladakis	Research Fellow	University of Leeds
Mike	Harbottle	Senior Lecturer	Cardiff University
David	Hardy	Managing Director	Hardy AVARR Ltd

Ian	Head	Professor of Environmental Microbiology	Newcastle University
Alan	Holmes	Consultant	Self-employed
Eleni	Iacovidou	Research Fellow	University of Leeds
Paul	Jensen	Technical Director	4Innovation Research & Consultancy Ltd.
Jenny	Jones	Professor	University of Leeds
Rick	Kimber	PDRA	The University of Manchester
Alfonso Jose	Lag-Brotons	Senior Research Associate	Lancaster University
Katia	Lasaridi	Vice-Rector	Harokopio University
Peter	Laybourn	Chief Executive	International Synergies Limited
Jonathan	Lloyd	Professor of Geomicrobiology	University of Manchester
Lynne	Macaskie	Professor of Applied Microbiology	University of Birmingham
Talib	Mahdi	Senior Impact Specialist	Cardiff University
Will	Mayes	Reader in Environmental Science	University of Hull
James	McKay	Manager DTC Bioenergy	University of Leeds
Ida Fahani	Md Jaye	PhD Student	University of Surrey
Pete	Metcalf	Director	Wilson Bio-Chemical
Chris	Meyer	R&D Manager	Birch Energy
Ray	Middleton	Technical Director	Anaero Technology Ltd
Iryna	Mikheenko	Research Fellow	University of Birmingham
Joel	Millward-Hopkins	Research Associate	University of Leeds
Edward	Milner	Research Associate	Newcastle University
Zaim	Mohammad	PhD Student	University of Leeds
Jose Javier	Munoz Criollo	Research Associate	Cardiff University

Jo	Neary	Senior Technologist	Biorenewables Development Centre
Kok Siew	Ng	Research Fellow	University of Surrey
Ken	O'Callaghan	Consultant Environmental Biologist	Ablephraser
Cigdem	Oz	PhD Research Student	University of Leeds
Kiran	Parmar	Post Graduate Researcher	University of Leeds
Rashmi	Patil	Research Scientist	Anaero Technology Ltd
Alan	Pearman	Professor of Management Decision Analysis	Leeds University Business School
Lucie	Pfaltzgraff	Consultant	NNFCC
Giuliano	Premier	Professor	University of South Wales
Phil	Purnell	Professor of Materials and Structures	University of Leeds
Dorian	Ramirez-Sosa	PhD Student	University of Leeds
Goran	Rashid	Research Fellow	University of Warwick
Sally	Reid	Senior Science Programme Officer	NERC
Michael	Rogerson	Senior Lecturer	University of Hull
Joe	Ross	Director	BDC
Andrew	Ross	Associate Professor	University of Leeds
Simon	Rout	Postdoctoral Research Assistant	University of Huddersfield
Emma	Ryan	Sustainable Products Manager	Bioregional
Jhuma	Sadhukhan	Senior Lecturer	University of Surrey
Devin	Sapsford	Senior Lecturer	Cardiff University
Kirk	Semple	Professor of Environmental Microbiology	Lancaster University
Mobolaji	Shemfe	Research Fellow	University of Surrey

Danielle	Sinnett	Senior Research Fellow	University of the West of England
Margaret	Smallwood	CEO	BioVale Ltd
Doug	Steward	Professor of Geo-Environmental Engineering	University of Leeds
Ana	Suarez-Suarez	MeteoRR Project Coordinator	Newcastle University
Rob	Sweeney	Project Director	CL:AIRE
Matt	Taylor	Organics Technical Manager	Aqua Enviro
Bernie	Thomas	Principal Consultant	Resource Futures
David	Tompkins	Bioresources Development Manager	Aqua Enviro
Mariana	Turnell-Suruagy	PhD Student	Leeds University
Anne	Velenturf	Programme Coordinator	Resource Recovery from Waste
Tom	Wilson	Director	Wilson Bio-Chemical
Andrew	Woodend	Statistics on Waste and Resource	DEFRA
Eileen	Yu	Senior Lecturer	Newcastle University
Guy	Ziv	Lecturer	University of Leeds
Oliver	Zwirner	Research Assistant	University of Leeds



**RESOURCE  
RECOVERY  
FROM WASTE**



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Resource Recovery from Waste

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