



Save the date: 19th April, 2016

Venue: Royal Institution of Chartered Surveyors
12 Great George Street, London SW1P 3AD

1st International Symposium on Phytoremediation for Energy & Element Developments (SPEED)

Organised by:

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CL:AIRE

Registration fee for this one-day event is £300 (VAT included) per delegate

Concessionary rate of £255 is offered to members of IES, IPS, CL:AIRE, CIWM & CIWEM

Early-bird rate (register before Fri 18th March): £255 for all standard registrations and £210 for concessionary rates

Student registration: £150

Booking for this conference should be completed through our secure registration website:

<http://www.cranfield.ac.uk/SPEED2016>

For registration enquiries please contact the Event Secretariat:

energytheme-events@cranfield.ac.uk

Join us in this exciting event and share your research and insights of innovations in biomass energy metal(loid) element recovery during phytoremediation.

Who will benefit from this Conference?

- Environmental regulators
- Environmental consultants
- Remediation contractors
- Research/academic institutions
- Local/central government
- Site owners/land owners

Overview

Remediating contaminated land is a priority that has to be addressed to resolve the trilemma of food production, environmental protection and energy crops. Exploring the production of biofuel feedstocks that are not in competition with food production is of paramount importance to the future development of bioenergy sector.

Global estimates indicate there are 385-472 million hectares of abandoned land unsuitable for agriculture due to contamination, in particular toxic metals/metalloid elements. Potentially, up to 1,840-2,253 Mtoe (million tonnes of oil equivalent) of energy crops can be grown on this land area, equating ~10% of world total energy production in 2012 with suitable plants. Additionally, this has the potential to address land remediation challenges achieving pollution control and or remediation of contaminated sites.

Expansion of research activities has arisen from commercial interest in the significant scale of this opportunity. There is a plethora of environmental and technological challenges in using contaminated land derived biomass including; plant uptake of the elements, advances in thermochemical biomass conversion, emission of contaminants during energy production processes, and recovery of metal(loid)s by processing solid residuals.

Further research and development adopting a multi-disciplinary approach is needed to exploit improvements in phytoremediation to improve the opportunities for energy production and metal(loid) element recovery.

The SPEED event is intended to bring together leading researchers and policy makers working in this area to discuss the current state-of-the-art, an analysis of future vision for this sector and innovative technologies arising from their work.

The conference will include keynote presentations, panel discussions and poster presentations. Our aim is to further enhance communications between scientists and engineers from both academic institutions and industrial companies, and to foster new and substantial collaborations.

Our conference objectives are: facilitate discussion across sectors and disciplines, promote the collaboration between industry and land management developments; and link developing research with policy initiatives.

Programme

09:30	Registration & coffee
10:00	Welcome & introduction
10:10	Session 1 - Scientific Presentations
11:10	Morning refreshment
11:30	Session 2 - Scientific Presentations
12:30	Lunch + Poster session 1
13:30	Session 3 - Scientific Presentations
14:30	Afternoon refreshment
14:50	Session 4 - Panel discussion
15:50	Refreshment + Poster session 2
17:00	Closing remarks by Chair

Confirmed keynote speakers now include:

Dr Eleni G. Papazoglou (Agricultural University of Athens)

Prof Ana Luísa Fernando (Universidade Nova de Lisboa)

Prof Mei Lei (Chinese Academy of Sciences)

Dr Richard Lord (University of Strathclyde)

Dr Dan CW Tsang (Hong Kong Polytechnic University)

Mr David Middleton (DEFRA)

Event Venue

The event venue Royal Institution of Chartered Surveyors is a historic Grade II listed building beautifully designed by Alfred Waterhouse and perfectly positioned in the heart of Westminster at 12 Great George Street.



Getting to the venue:

RICS at Parliament Square is conveniently located in Westminster and within easy reach by road, rail, boat and air. › [View on google maps](#)

You can also view venue on [Google Virtual Tour](#)