

Further Information

To receive further information, please send an E-mail through a completed "Interest in Registration" form via the Conference website www.cathyhillevents.co.uk/feria

Registration

One of the principal aims of this conference is to encourage wide participation and to enable this, the cost to participants is kept at a reasonable level.

The conference "early bird" fees will be [approximately]:

£465 Fuel and Energy Research Forum Member - (www.tferf.org)

£235 Student of Fuel and Energy Research Forum Member

£690 Non-member

£350 Student of non-member

The Conference fee will include full attendance, refreshments, lunches, the Poster Buffet Reception and Dinner and the Conference Dinner. These "Early bird" rates are available only until Friday 25th June 2021. No day rates are offered. All participants are asked to cover their own accommodation and travel costs, and details of accommodation options, which will include Newark Hall of Residence, Jubilee Campus will be publicised via the website once registration is open.

Important Dates in 2021

Friday 16th April	Closing date for new and revised abstract submission
Friday 30th April	Current authors acceptance confirmed / new authors informed of acceptance
Friday 28th May	Revised conference programme published
Friday 25th June	Last date for "early bird" registration fees
Friday 9th July	Last date for registration by oral and poster presenters
Friday 29th October	Closing date for full paper submission to "FUEL" special issue

Conference Organising Committee

Dr David McCaffrey, McEnergy Consultancy (Conference Chairman)

Dr Will Quick, Uniper Technologies Ltd (Conference Finance Officer)

Dr Orla Williams, University of Nottingham (Local Organiser and Conference Secretary)

Dr Julian Steer, Cardiff University (Sponsorship Officer)

Dr Malgorzata Wiatros-Motyka, IEA CCC (Publicity Officer)

Prof Bill Nimmo, University of Sheffield (Head of Conference Programme Group)

Prof Ed Lester, University of Nottingham (Main Local Organiser and Conference Programme Group)

Dr Katie Chong, Aston University (Conference Programme Group)

Prof John Patrick, University of Nottingham (Local Organiser)

Prof Cheng-Gong Sun, University of Nottingham (Local Organiser)

Dr Gerry Riley, RJM International (Committee Member)

Mr Michael Green, UCG Engineering Ltd (Committee Member)

Mrs Cathy Hill, Cathy Hill Events (Professional Conference Organiser)

Secretariat Contact

Cathy Hill, The Old School, The Street, Stowlangtoft, Bury St Edmunds, IP31 3JN.

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Website

www.cathyhillevents.co.uk/feria

www.tferf.org

1st FERIA

The European Conference on Fuel and Energy Research and its Applications



Monday 6th to Wednesday 8th September 2021

The University of Nottingham
Jubilee Campus
Nottingham NG7 2RD
United Kingdom



Organised by the Fuel and Energy Research Forum

www.cathyhillevents.co.uk/feria

www.tferf.org

Introduction

The Fuel and Energy Research Forum has been created to bring together all those with interests in fuel and energy research, particularly biomass, waste and fossil fuels and to promote and integrate these interests in the UK and worldwide. These research areas are increasingly important as carbon-fuels continue to play a key role in the energy mix of today. These fuels provide a widely-distributed, secure and reliable source of energy that is relatively easy to obtain. Clean carbon-fuel technology is the order of the day, with particular attention being paid to carbon capture and storage in view of global warming and carbon dioxide emissions from carbon-based usage.

The First Conference in the ECCRIA series of Conferences was held in 1996 at Loughborough University and building on the success of the previous twelve ECCRIA conferences, this 1st FERIA Conference is to be held at the University of Nottingham.

Situated in the East Midlands region of England on the edge of Sherwood Forest, the legendary home of Robin Hood, Nottingham has had a colourful past of legend and lace and caves and castles. The City of Nottingham is home to nearly 300,000 people including over 70,000 students at the University of Nottingham and Nottingham Trent University. Beneath the bustling city streets is a unique labyrinth of man-made caves, and above the ground, Nottingham Castle stands high on the city skyline. With exhibitions describing its turbulent history, the castle is also an acclaimed museum and art gallery for contemporary works. Nottingham's industrial heritage is founded on lace, where its fascinating story is told at the Museum of Nottingham Lace. As well as Robin Hood, other famous figures who have helped shape Nottingham's heritage are, Lord Byron, D.H. Lawrence, Jesse Boot, William Booth and the mathematician, George Green. Nottingham has an abundance of restaurants, cafes, pubs and bistros around the city which, when weather permits, bring al fresco dining for a real continental feel. In the evening, Nottingham is still buzzing with life as the choice of entertainment on offer brings people of all ages to the city to sample what is becoming a legendary nightlife. Nottingham is also well served by excellent theatres, where the Victorian Theatre Royal, the Nottingham Playhouse, the Broadway, the Malt Cross Music Hall and the modern Royal Concert Hall, all bring a year-round programme of drama and music to the city. Nottingham is also home to two League Football Clubs, Nottingham Forest and Notts County. This friendly and vibrant city provides an excellent base for the conference and a showcase for the English East Midlands, where it is hoped that delegates from outside the UK will continue to support this event and will thoroughly enjoy their stay in Nottingham.



Road : The city has road links via the M1 Motorway.

Rail : Direct rail links mean that Nottingham is only 1h.45mins. from London.

Air : The East Midlands International Airport is nearby, (12 miles), with Birmingham International Airport only 48 miles away

Bus : There are great bus services running throughout the day and throughout the city, linking the University to all major city attractions.

Scope and Purpose

The purpose of this conference is to bring together researchers in universities and participants from industry who are also carrying out research or are interested in the application of the research in industry. Papers which describe the applications of research in fuel and energy characterisation, utilisation and preparation are now invited.

Call for Abstracts

Abstracts are invited which describe current academic and industrial research into cleaner fuel and energy research on biomass, waste and fossil fuels and their applications including but not limited to :-

- Improving efficiency and reducing emissions for carbon-based fuel technologies in conventional combustion power generation. This includes optimising the flexible operation of power plant and ash and slagging issues.

- Advanced Power Generation, (APG), based on thermal processes, including enabling technologies and innovative process design for APG.
- Industrial scale combustion, gasification and pyrolysis including issues associated with co-firing and with the combustion of biomass and waste.
- Biogas production and utilisation including landfill gas and anaerobic digestion.
- Decarbonisation : Pre and post-combustion capture, transport, storage and utilisation technologies, including oxyfuel combustion, chemical looping, fuel characterisation and plant diagnostics.
- All emissions issues, including alternative NO_x, SO_x, particulates and trace element reduction techniques to meet more stringent emissions standards throughout the world.
- Pre-treatment and processing of biomass and waste feedstocks, (torrefaction, washing, etc.), and issues associated with the safe storage, processing, handling and feeding of biomass and waste into process systems.
- Hydrogen : Its potential use as transport fuels and for stationary applications and their issues.
- Energy storage, thermal storage, mechanical storage, cold storage and integration with energy systems.
- Case studies on the challenges facing the users of biomass and waste.
- Carbon based fuel conversion process including, carbonisation and other metallurgical uses, fuel-derived products, fuel preparation and handling, underground coal gasification and coal bed methane, and all other carbon-based fuel conversion processes, including coal to liquids.
- Policy and technoeconomic studies, including legislation towards power from carbon-based fuels, government policy, legislative framework, both UK and international.

Research students are also strongly encouraged to submit papers, attend and give presentations - there is a reduced Conference fee for students.

All authors are asked to submit one or more abstracts by **Friday 16th April 2021** to the Professional Conference Organiser at cathy@cathyhillevents.co.uk. Abstracts must conform to the format specified in the website template, and must be submitted by the named presenter, (not a third party). For papers accepted, the named presenter/author will present the paper at the conference either as an oral presentation or as a poster. This author must register and pay his/her conference fee before Friday 9th July 2021 in order for their paper/poster to be confirmed in the programme.

Proceedings

All authors of accepted abstracts are invited to submit, by **Friday 29th October 2021** at the latest, a full paper for possible publication in **FUEL** and for inclusion in a Virtual Special Issue to be published on the Elsevier website for the **FUEL** journal. The papers submitted must be prepared strictly in accordance with the Guide for Authors and must be submitted electronically via <http://ees.elsevier.com/jfuel/>. Authors should clearly indicate that the paper is from the **1st FERIA Conference** for inclusion in the Virtual Special Issue of **FUEL**. All full papers will be subject to the normal refereeing requirements of **FUEL**.

Sponsorship and Exhibition Packages

Sponsors and exhibitors are encouraged to support this well-established event. Sponsorship packages are:

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| £550 | Bronze, Organisation logo on all of the conference publications and inclusion of organisation's literature or brochure in delegate packs |
| £750 | Silver, As Bronze package, plus an exhibition stand |
| £1,000 | Gold, As Bronze package, plus named sponsorship of one Conference Lunches |
| £1,500 | Diamond, As Bronze package, plus sponsorship of Poster Buffet Dinner |
| £2,000 | Platinum, As Bronze package, plus sponsorship of Conference Dinner |
| £475 | Exhibitor package, An exhibition stand with one trade stand staff who will have access to daytime catering only. This package excludes access to technical sessions, evening dinners (may be bought as extras), logo and literature inclusion. |

Website

www.cathyhillevents.co.uk/feria

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