2023 World Fuel Cell Conference

11-13 December 2023, Imperial College London, UK | https://www.iahe-fcd.org/wfcc2023

CONFERENCE OBJECTIVES

The 2023 World Fuel Cell Conference (WFCC) is a multi-disciplinary conference that covers the latest developments and advancements in fuel cells and hydrogen, from fundamentals, to advanced materials, design, engineering, products and applications.

CONFERENCE FORMAT

The conference will be composed of the following events and activities:

- Plenary/keynote lectures by invited speakers
- General contributed abstracts/papers presented orally in technical sessions and/or by posters
- Tutorials on fuel cell and hydrogen related technology and characterization techniques by invited leading researchers

ABSTRACT/PAPER SUBMISSION

Submissions to the conference are in two formats:

- Abstract only (no paper submission required and presentation only), or
- Full Paper (needed for consideration in Best Paper Award and/or special issues of peer-reviewed international journals)

IMPORTANT DATES

Deadline of Abstract (presentation only) or Full Paper (presentation & publication):
16 October 2023

Registration Deadline:
31 October 2023 (early bird)
30 November 2023 (regular)

THREE COMPETITIONS

Three Competitions are included in the event:
(1) Best Paper Award
(2) Best Student Presentation Award
(3) 3 Minute Thesis (3MT) Competition

TOPICS

The conference welcomes abstract/paper in all areas of Fuel Cell and Hydrogen Technologies, including but not limited to:

Theme 1: Fuel Cell

- Types of fuel cell: PEMFC, DMFC, SOFC, PAFC, AFC
- Materials and components: catalysts and their supports, GDLs, MPLs, EAs, bipolar plates, membranes, ionomers
- Modelling design, optimization: materials, cells, stacks, systems
- Applications: mobile, stationary, portable, specials

Theme 2: Hydrogen

- H_2 production: Electrolysis (PEMEC, SOEC), reforming, photolysis, anaerobic
- H_2 storage: compressed gas, cryogenic liquid, metal hydride, chemicals, container
- H_2 transport: trucking, pipeline, railway, ship
- H_2 infrastructure: fuelling station, distribution centres

Theme 3: Inter-connection

- Hydrogen economy: BEV vs. FCEV, Hybrids
- On board H_2 storage
- Lifecycle analysis: round trip efficiency of H_2 & electricity generation, environmental impact assessment
- Renewable energy resource coupling: SOFC-SOEC, PEMFC-PEMEC

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IAHE Fuel Cell Division

Imperial College London

UNIVERSITY OF BIRMINGHAM

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Jack Dawson, Shangfeng Du, Mengjun Gong, Anthony Kucernak, Muhammad Tahir, Yichang Yan

PUBLICATION

Some selected quality papers, after review, will be recommended for publication in a special issue for *Journal of Power Sources* and *Frontiers in Energy.*

REGISTRATION FEE

In-person (early bird): £300 student, £600 regular From 1 Nov 2023, £350 student, £700 regular

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