

# 2021 WORLD FUEL CELL CONFERENCE

CONFERENCE WEBSITE

<https://www.iahe-fcd.org/wfcc2021>

AUGUST 17-20, 2021 | WATERLOO, CANADA

## ANNOUNCEMENT AND CALL FOR ABSTRACTS/PAPERS

### Topics

The conference invites you to submit abstract/paper in all areas of Fuel Cell Technology, 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, MEAs, bipolar plates, membranes, ionomers
- Modelling, design, optimization: materials, cells, stacks, systems
- Applications: mobile, stationary, portable, specials

#### Theme 2: Hydrogen

- H<sub>2</sub> production: Electrolysis (PEMEC, SOEC), reforming, photolysis, anaerobic
- H<sub>2</sub> storage: compressed gas, cryogenic liquid, metal hydride, chemicals, container,
- H<sub>2</sub> transport: trucking, pipeline, railway, ship
- H<sub>2</sub> infrastructure: fueling station, distribution centers

#### Theme 3: Inter-connection

- Hydrogen economy: BEV vs FCEV, Hybrids, polygen
- On board H<sub>2</sub> storage
- Lifecycle analysis: round trip efficiency of H<sub>2</sub> & electric generation, environmental impact assessment
- Renewable energy resource coupling: SOFC-SOEC, PEMFC-PEMEC

### Conference Objectives

The 2021 World Fuel Cell Conference (WFCC) is a multi-disciplinary conference that covers the latest developments and advancements in fuel cells, from fundamentals, to advanced materials, design, engineering, products and applications. It will be of particular value and interest to those in the relevant fields.

### Venue

The conference will be held in Waterloo, ON, Canada. University of Waterloo is the largest Engineering post-secondary institution in Canada, well known for its innovation, entrepreneurship and commercialization.

### Conference Format

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

- General contributed abstracts/papers presented orally in technical sessions and/or by posters
- Keynote abstracts/papers presented by invited speakers
- Tutorials about fuel cell and hydrogen related technology by invited leading researchers

### Abstract/Paper Submission

The submissions to the conference are in two formats:

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

### Important Dates

**Submission of Abstract/Full Paper** - December 1, 2020-April 1, 2021

**Notification to Authors** - April 5, 2021

**Submission of Revised Abstract/Paper** (where applicable) - April 15, 2021

**Registration Deadline** - May 15, 2021

### Co-organizers



## Conference Chair

Xianguo Li, University of Waterloo, Canada

## Conference Co-chairs

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Zifeng Ma, Shanghai Jiaotong University, China

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## Local Organizing Committee

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## Publication

Some selected quality papers, after proper respective review, will be recommended for publication in special issues of several prestigious international journals, but primarily will be for the International Journal of Hydrogen Energy.

## Registration Fee

Regular Delegate: Early Bird: USD \$550 (before April 15, 2021); Regular Registration: USD \$650  
Student Delegate: Early Bird: USD \$ 400 (before April 15, 2021); Regular Registration: USD \$ 450