

US Hydrogen & Fuel Cells Energy Summit

10-11th July 2019 - Boston, MA

Maximising commercial opportunities & partnerships in the hydrogen & fuel cells industry

Key Topics

- Hydrogen & Fuel Cell Market Overview
- Assessing Government Subsidies & Long-Term Implications
- Encouraging Large Scale H₂ Production
- Power to Gas: Collaboration between Utilities & OEM's
- Debating the Transportation of Renewable Energy
- Developing Liquid Organic Hydrogen Carrier Technology
- Adapting Hydrogen Station Build-Out for Heavy-Duty Vehicles
- Refueling Station Component Reliability
- Maximizing Renewable Energy Capabilities with Energy Storage
- The Operational Advantages of Fuel Cell Forklifts
- A Roadmap to Achieving State-wide Carbon Neutrality
- Decarbonizing Port & Maritime Operations

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Krisztina Maria Szabo +44 (0) 203 141 0603 / kszabo@acieu.net



The Conference

ACI's US Hydrogen & Fuel Cells Energy Summit will be taking place in Boston, Massachusetts on the 10th-11th July 2019. The two day event will bring together key industry stakeholders from all facets of the hydrogen industry to discuss the required economical and infrastructural innovations for a sustainable future energy carrier.



With incredible advances recently in hydrogen it is the best time to explore this booming industry. Join us in Boston to hear about the latest innovations, the state of investment and the upcoming economic opportunities.

Confirmed Topics for Discussion

- Hydrogen & Fuel Cell Market Overview
- Assessing the Long-Term Implications of Government Subsidized Infrastructure Development
- Encouraging Large Scale H2 Production
- Power to Gas: Collaboration between Utilities & OEM's
- Debating the Transportation of Renewable Energy
- Developing Liquid Organic H2 Carrier Technology
- Adapting Hydrogen Station Build-Out for HDV's
- Refueling Station Component Reliability
- Maximizing Renewable Energy Capabilities with Energy Storage
- Sustainable Alternatives to Steam Methane Reforming
- A Roadmap to Achieving Statewide Carbon Neutrality
- Decarbonizing Shipping & Port Operations

Who will be attending?

This conference invites experts and senior executives across the whole Hydrogen and fuel cells industry value chain interested in meeting potential partners, create business opportunities and gaining knowledge on the latest advancements to aid growth in markets.

Representatives from hydrogen producers and suppliers, fuel cell companies, automotive OEMs, hydrogen storage companies, technology providers, component manufacturers & industrial end-users, financial stakeholders and investors, service providers, government officials & regulators, sustainability mobility technology providers and others will come to discuss perspectives & market opportunities for the hydrogen & fuel cells market.

Registration is simple:

If you would like to register for this event or wish to find out more information, please contact **Marcin Janecki** using either of the following methods:

Tel: +48 (0) 61 646 7047
Email: mjanecki@acieu.net

Speaking Opportunities:

If you would like to be considered for a speaking opportunity at the event, with a 20-30 minute presentation, please submit an abstract to **Rob Cheeseman**:

Tel: +44 (0) 203 141 0625
Email: rcheeseman@acieu.net

Commercial & Sponsorship Opportunities

With leading companies and organizations from the industry attending and speaking at our event, we have the perfect vehicle to provide outstanding exposure to a senior level audience.

There are various sponsorship packages available, including sponsorship of a drinks reception on the first evening of the event and sponsorship of a networking lunch.

For further details, please contact:
Krisztina Maria Szabo

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DAY 1

Wednesday 10th July 2019

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIR'S OPENING REMARKS**

09:15 **CONFERENCE PRESENTATION**

Hydrogen & Fuel Cell Market Overview

- Forecast of market developments over the next 5-10 years
- Outlining the key challenges faced by the industry

 Charles Myers
President
Massachusetts Hydrogen Coalition



David Hart
Director
E4Tech

10:00 **PANEL DISCUSSION**

Assessing the Long-Term Economic Viability of Subsidised Infrastructure Development

- Evaluating the long-term implications of government subsidies & policy
- Establishing the potential for substantial investment
- The feasibility of a financially independent business model



Joel Rinebold
Director of Energy Initiative
Connecticut Center for
Advanced Technology

11:00 **MORNING REFRESHMENTS**

11:30 **SESSION ONE**

Encouraging Investment with Large Scale Implementation of H2 Production Infrastructure

- Encouraging investment towards an economy of scale
- Utilising existing transmission and distribution networks to facilitate hydrogen supply
- Minimising the requirement for new energy system infrastructure

HydroGEN and H2@Scale: From Materials R&D to Large Scale H2 Production

- Wide-scale hydrogen production and utilization enables resiliency of power generation and transmission sectors
- How increasing hydrogen production will be a driver to reduce cost
- Cross-cutting materials R&D is key to accelerating low-cost, renewable hydrogen production



Huyen Dinh
Director Of HydroGEN Energy
Materials Network
National Renewable Energy
Laboratory

12:45

PANEL DISCUSSION

Power to Gas: Addressing the Technological Challenges with Collaboration between Utilities & OEM's

- Discussing the long-term unsustainability of natural gas reforming
- Assessing the viability of integrating low-carbon solutions
- Facilitating co-operation along the supply chain to decarbonise the sector

 Gerry Snow, P.E.
Principal Consulting Engineer
Pacific Energy Research Associates

 Brad Bradshaw
President
Velerity

13:30

LUNCH

14:30

CONFERENCE PRESENTATION

Debating the Possibility of Transporting Renewable Energy from Sunshine to Non-Sunshine States

- The challenges associated with transporting stored hydrogen
- Considering the economic and logistical viability for utilising green H2 across the US
- Comparing the benefits against production infrastructure build-out

- 15:15 CONFERENCE PRESENTATION**
Developing Liquid Organic Hydrogen Carrier Technology to Lower Transportation Costs
- Enabling safe and efficient high density hydrogen storage
 - Presenting an alternative to fiscally inefficient high pressure technology

16:00 AFTERNOON REFRESHMENTS

- 16:30 SESSION TWO**
Adapting Hydrogen Station Build-Out based on Heavy-Duty Vehicle Routes
- Aligning H2 vehicle production capacities with refuelling systems
 - Discussing the practicality of decarbonising heavy logistics
 - Facilitating fleet charging capability to attain commercial viability
 - Considering long-term usage by commercial vehicles

Amgad Elgowainy, Ph.D., P.E.
 Vehicle and Electrification Group
 Manager - Energy Systems Division
Argonne National Laboratory

- 17:45 CONFERENCE PRESENTATION**
The Importance of Component Reliability at Refuelling Stations
- Prioritising durability as a factor to address limited funding
 - Utilising predictive maintenance systems to extend station life
 - How component market saturation can benefit station production

Michael Peters
 Engineer
National Renewable Energy Laboratory

18:30 CLOSE OF DAY ONE

DAY 2

Thursday 11th July 2019

08:30 REGISTRATION & COFFEE

09:00 CHAIR'S OPENING REMARKS

- 09:05 SESSION THREE**
Scaling Up the Energy Storage Market to Maximise Renewable Energy Capabilities
- Developing efficiency of sustainable H2 production as an alternative to steam methane reforming
 - Presenting a solution to intermittent renewable energy patterns
 - Considering biogas as a solution towards carbon neutral H2 production
 - Reducing harmful landfill emissions by implementing waste gasification

Ken Dragoon
 Executive Director
**Renewable Hydrogen Alliance/
 Flink Energy Consulting**

John Guerra
 President & CEO
LightFuel Company

10:20 Energy Efficient Clean Hydrogen Production

Ted Moryto
 Director of Energy Innovations
Canadian Nuclear Laboratories

Dr Gordon Burton
 Manager of Hydrogen Program
Canadian Nuclear Laboratories

11:05 MORNING REFRESHMENTS

- 11:35 CONFERENCE PRESENTATION**
Assessing the Operational Advantages of Fuel Cell Forklifts for Materials Handling
- Reducing total cost of ownership and and charge times compared to traditional MHV's
 - Minimising energy usage and environmental impact of factory and warehouse operations

12:20 **CONFERENCE PRESENTATION**

A Roadmap to Achieving State-wide Carbon Neutrality by 2045

- The role of hydrogen & fuel cell technology in realising emissions targets
- Discussing the technology and investment needed to meet this goal

13:05 **LUNCH**

14:05 **SESSION FOUR**

Implementing Fuel Cell Infrastructure to Decarbonise Port & Maritime Operations

- Leading the way in the heavy-duty vehicles transition to green technologies
- Stationary H₂ storage as a low-carbon alternative to diesel
- Overcoming operational and logistical barriers in the port domain
- Considering renewable energy production applications

Cory Shumaker
Development Specialist
California Hydrogen Business Council

15:20 **CHAIR'S CLOSING REMARKS**

15:30 **END OF CONFERENCE & AFTERNOON REFRESHMENTS**

More Information & Registration

If you would like to register for this event or wish to find out more information, please contact **Marcin Janecki** using any of the following methods:

Tel: +48 (0) 61 646 7047

Email: mjanecki@acieu.net

Web: <http://www.acieurope.net>

Addr: 10 Gough Square, London, EC4A 3DE

Registration is simple

| | |
|--|-----------------------------|
| Conference (Includes Documentation Packet) 26 th -27 th June 2019 | \$2,395 (ex. Vat) |
| Documentation Packet Only | \$615 |

Please note: Members and customers of all supporting organizations are entitled to a discount off their conference package.

For more information please call +48 (0) 61 646 7047

Documentation Packet Available

We are selling the Digital Utilities Europe 2019 papers at just \$585 (+\$30 P&P). Simply tick the box on the booking form, send it with payment and your copy will be on its way to you after the meeting. This important manual will be a source of invaluable reference for the future.

Terms & Conditions

Payment

Payment must be received within five business days of returning the signed contract. After receiving payment a VAT receipt will be issued. If you do not receive a letter outlining details two weeks prior to the event, please contact the Conference Coordinator at ACI Europe Ltd.

Discounts are available for multiple/group bookings. Please call +48 (0) 61 646 7047 for more information.

Cancellations

Substitutions are welcome up to 24 hours prior to the event. Cancellations must be received in writing no less than 3 weeks prior to the start of the conference; a full credit voucher towards a future ACI conference will be issued. Any cancellation received less than 3 weeks prior to the start of the event shall be deemed to be a breach of this contract by client, and accordingly, no credits will be given. Cancellations must be received in writing by mail or fax three week before the conference. Thereafter the full conference fee is payable. If for any reason ACI Europe Ltd decides to amend, cancel or postpone this conference, the conference fee will not be refunded. Furthermore, ACI Europe Ltd will not be responsible for covering airfare, hotel or other costs incurred by registrants, in the event that ACI Europe Ltd cancel or postpone the event, ACI Europe Ltd reserves the right to transfer this booking to another conference to be held in the following twelve months, or to provide a credit of an equivalent amount to another conference within the following twelve months. The construction, validity and performance of this agreement shall be governed in all respects by the laws of England to the exclusive jurisdiction of whose courts the Parties hereby agree to submit.

Accommodation

The cost of accommodation is not included in the event fee. Preferential rates will be arranged with or near the event venue, and all confirmed delegates will be given details of how to book accommodation at this rate in due course.

About ACI

ACI, a UK owned company, has been running successful conferences in the USA since 1999. Headquartered in Chicago with offices all around the States, ACI opened its European head office at the end of 2005 and has expanded rapidly, launching a series of events in key industries including maritime, energy, oil & gas, cosmetics, chemicals & media.

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