



Message from the Chairman





As the conference chairman of the 23rd World Hydrogen Energy Conference (WHEC-2020), it is my great pleasure to cordially invite you to Istanbul to attend this prestigious conference. WHEC is a unique event for all researchers, scientists, academicians, and professionals working in the field of hydrogen energy systems; from production to storage and end-use options such as fuel cells. This conference will provide a useful platform for contributions to the development and enhancement of hydrogen energy systems; as well as, a place to interact with researchers from all around the world to gain a better understanding of the use of hydrogen energy systems for a sustainable future. Much like past WHECs, WHEC-2020 will not only provide an outlook on the current research activities but also will shape the future of hydrogen energy systems. As a city that connects two continents, Istanbul has always been strategically important and hosting the 23rd WHEC in Istanbul will bring researchers from different continents together to promote hydrogen energy systems and share their innovative ideas. Turkey is dedicated to increasing the share of renewables in its energy supply, and hydrogen energy systems are promising candidates. Therefore, Turkey has expanded its research, innovation, and technology development activities to produce, store, and use hydrogen in an affordable, reliable, safe, clean, and sustainable manner. Given these activities as well as the financial investment and dedication to hydrogen energy systems in Turkey; Istanbul is undoubtedly the perfect host city for this event. Given the influence of the prestigious International Association of Hydrogen Energy (IAHE), the support of the Turkish National Hydrogen Association, International Energy Agency (IEA) and International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE), the reputation of the WHECs, the launch of Hydrogen Council, and the historic and strategic importance of the beautiful host city, Istanbul, it is expected that WHEC-2020 will turn out to be a success story with strong participation and global influence.

I look forward to welcoming you to Istanbul on July 5, 2020.

Prof. Dr. Ibrahim Dincer

Chairman of WHEC-2020
President, National Hydrogen Association



 www.whec2020.org
 info@whec2020.org



The hydrogen world is coming to Istanbul!

Why Istanbul?

Istanbul is the largest city in Turkey and is also among the 15 largest urban areas in the world. It is located on the Bosphorus Strait and covers the entire area of the Golden Horn, a natural harbor. Istanbul extends from Europe into Asia, connecting the two continents and making it the world's only metropolis to expand over two continents. The city of Istanbul is geographically crucial because it has a long history that spans the rise and fall of the world's most famous empires.

Istanbul will bring researchers, academicians, industrial professionals, and all individuals interested in the field of hydrogen energy together with WHEC-2020. Due to its unique location, Istanbul is easily accessible from all around the world; mostly by non-stop direct flights. A fun, diverse, historic place that is also easy to reach is sure to enhance the participation to WHEC-2020; which will result in a fruitful conference with practical ideas and action plans.

Why Turkey?

In addition to its geographical location between Europe, the Middle East, and Asia; Turkey also plays a significant role in the distribution of energy from the Middle East to Europe. Thus, Turkey is of great importance to the global energy market. The country's dedication to an increased share of renewables in its energy mix and development and deployment of hydrogen energy systems make Turkey a great host for WHEC-2020.

Why WHEC?

The World Hydrogen Energy Conference is an excellent occasion for international and Turkish communities to work together to enhance the global activities in the field of hydrogen energy systems for a sustainable future. The dissemination of knowledge on hydrogen energy will foster interest in the new scientific and technological activities. The size and characteristics of the Turkish industry and its big markets offer excellent opportunities for global partnerships that can support the introduction of new technologies in commercial scale.

Important Dates

Extended abstract due:

December 15, 2019

Notification of abstract acceptance:

February 1, 2020

Submissions

We invite authors to submit their extended abstracts in the field of hydrogen energy systems. The submissions will go through a peer review process. Some key topics are listed here as a guide for the authors. Please submit your extended abstract using the following link: www.WHEC2020.org

TOPICS

- Alkaline fuel cell components
- Conventional hydrogen technologies and applications
- National and international strategies / Associations / Assessments
- Desulphurization processes
- Electrocatalysts / Electrodes (Fuel cells and electrolyzers)
- Environmental aspects and impact of hydrogen energy technologies
- Exergoeconomics of hydrogen energy applications
- Fuel cell stacks
- Fuel cell systems modeling
- Green hydrogen
- Heat transfer aspects of hydrogen energy
- Historical aspects of hydrogen
- Hydrogen-based sustainability
- Hydrogen conversion technologies
- Hydrogen economy / Commercialization / Codes and standards
- Hydrogen in smart grids
- Hydrogen management
- Hydrogen production: Biohydrogen / Gasification
- Hydrogen production: Catalysts
- Hydrogen production: Electrolysis / Electrolyzers
- Hydrogen production: Fossil sources
- Hydrogen production: Solar hydrogen / Renewable hydrogen
- Hydrogen properties / Safety / Sensors
- Hydrogen storage: Chemical carriers / Hydrides
- Hydrogen storage: Gas / Liquefaction
- Hydrogen strategies, policies, and roadmaps
- Hydrogen systems modeling
- Hydrogen thermodynamics
- Hydrogen transportation
- Hydrogen tourism
- Hydrogen vehicles
- Infrastructure systems modeling
- Innovative hydrogen energy processes and technologies
- Life cycle aspects of hydrogen energy
- Micro-process technologies
- Molten carbonates fuel cells components
- Nuclear hydrogen
- Other fuel cell components
- Other applications of hydrogen as a fuel
- Other applications of fuel cells
- Payback of hydrogen-based systems
- PEM fuel cell components
- Pipelines / Hydrogen infrastructure / Distribution / Fueling stations
- Purification / Separation / Membranes
- Renewable hydrogen technologies and applications
- Sectoral hydrogen applications
- Solid oxide fuel cells components
- Stationary applications
- Sustainable hydrogen technologies
- Transportation and aerospace applications
- Waste-to-hydrogen energy

www.WHEC2020.org



ORGANIZER

**NATIONAL HYDROGEN
ASSOCIATION OF TURKEY**
info@hidrojentejnoljileri.org
hidrojendernegi@hotmail.com



Congress, Incentive and Events

ORGANIZATION SECRETARIAT

BROS GROUP
Phn: + 90 212 296 66 70
Fax: + 90 212 296 66 71
alen.demirel@brosgroup.net
www.brosgroup.net