

World Hydrogen Technologies Convention (WHTC) is an international conference which provides an International forum with Sustainable Development Goals (SDGs) and gives an opportunity to share the information on the current state and future direction of hydrogen energy research, technology, social implementation, policies in Japan as well as across the globe. Technical Tour and FC EXPO will be held simultaneously.

Showcase of hydrogen energy society in Japan and the world

Conference Dates: June 2nd (Sun) - 7th (Fri), 2019

Invited talk, panel · poster session, poster display

Technical Tour: June 6th (Thu) - 7th (Fri)

FC EXPO TOKYO: June 4th (Tue) – 5th (Wed)

Venue: Tokyo International Forum (<https://www.t-i-forum.co.jp/>)

Homepage: <http://whtc2019.jp/>



Purpose of holding

World hydrogen technologies convention (WHTC) 2019 to be held in Tokyo in June 2019 will be organized by Hydrogen Energy Systems Society of Japan (HESS). WHTC together with World Hydrogen Energy Conference (WHEC) is the exhibition seminar conference series held in alternative years are organized jointly by the Hydrogen Association of respective host country and the International Association of Hydrogen Energy (IAHE). WHTC is one of the most prestigious conference focusing on hydrogen energy technologies. While the world is trying to advance towards Sustainable Development Goals (SDGs), hydrogen energy society is being realized to be one of its powerful ways. This international conference will bring scientists, researchers, students, industrialists, bureaucrats to be gathered at one place and exchange their ideas towards sustainability. At this conference, the information exchange on the hydrogen related technologies and policies will be held, and it is expected to be a place to deepen international cooperation while discussing the future way of a low carbon society. It is positioned as a showcase of hydrogen energy related technologies in the world. WHTC 2019 will forecast the vision of the Tokyo Olympic and Paralympic Games to be held in July 2020 for the implementation of a hydrogen energy society as an important science and technology innovation to be disseminated to the world.

Conference Topics (planned)

1. Policies and strategies for hydrogen energy society

- National strategy and international cooperation
- Strategies and Projects of Local Governments and Regions
- Environmental Impact of Hydrogen Energy System
- Scenarios, Economics, and Finance
- Market-In Strategy of Hydrogen Energy Systems

2. Hydrogen production

- Water Electrolysis (Alkaline, PEM, SOEC)
- Photochemical Process · Biological Process · Reforming and Decomposition Process · Thermochemical Process

3. Energy Network using Hydrogen and Energy Carriers

- Production and Handling of Compressed Hydrogen and Liquid Hydrogen
- Conversion of Energy Carriers
- Transportation and Storage of Hydrogen and Energy Carriers
- Hydrogen Refueling Station
- Power To Gas
- Hydrogen Utilization in Community

4. Use of hydrogen for energy conversion

- Fuel Cell Systems for Transportation and Vehicle
- Fuel Cell Systems for Power Generation
- Internal Combustion Engines for Hydrogen (Diesel, Gas Turbine etc.)
- Direct Utilization of Energy Carriers
- Other Technologies

5. Advanced Industrial Use and New Application of Hydrogen

- Industrial Applications (Steel Production Rear-Earth Magnet Production etc.)
- Medical Application
- Agriculture and others

6. Safety, Codes and Standards for Hydrogen Energy Systems

- International Standards
- International and Local Regulations
- Safety of Hydrogen Energy Systems, Hydrogen and Energy Carriers
- Hydrogen Compatible Materials

Program (planned)

June 2 (Sun)	Jun 3 (Mon)	Jun 4 (Tue)	Jun 5 (Wed)	Jun 6 (Thu)	Jun 7 (Fri)	
		Registration				
	Opening Ceremony	Special Session				
	Plenary Session					
	Parallel Session			Closing Ceremony		
	Poster Session					
		Exhibition		Technical Tour		
Welcome Party			Banquet			

Important Dates

- ✓ **Call for Abstract:** June, 2018
- ✓ **Abstract Submission Deadline:** November, 2018
- ✓ **Abstract Acceptance Notification:** February, 2019

- ✓ **Registration Open** June, 2018
- ✓ **Early Bird Registration Deadline:** September, 2018
- ✓ **Regular Registration Deadline:** March, 2019
- ✓ **Late Registration Deadline:** May, 2019

- ✓ **Convention Date:** June 2-7, 2019

■ Technical tour planning

- Half day tour: related facilities in Tokyo, related facilities in Kanagawa prefecture, Tokyo Tech etc.
- One day tour: related facilities in Fukuoka prefecture, related facilities in Yamanashi Prefecture, National Institute of Advanced Industrial Science and Technology, Fukushima Renewable Energy Laboratory etc.

■ Exhibition: FC EXPO TOKYO in WHTC 2019

■ Plenary session · Parallel session

■ Poster session

■ Planning special sessions by relevant organizations, local governments, enterprises, etc.

Organized by: Hydrogen Energy Systems Society of Japan (HESS)

Co-organizer: International Hydrogen Energy Association (IAHE)

Co-sponsored / sponsored / special sponsorship / sponsorship: ministries, local governments, foundations, companies, academic societies, individuals are currently recruiting

Secretariat (contact address): WHTC 2019 Organizing Committee org@whtc2019.jp

National Institute of Advanced Industrial Science and Technology WHTC 2019 responsible
Japan Convention Service Co., Ltd.