

CONFERENCE TOPICS

Fuel Cell Technologies

- Proton Exchange Membrane Fuel Cells (PEMFC)
- Direct Methanol Fuel Cells (DMFC)
- Solid Oxide Fuel Cells (SOFC)
- Microbial Fuel Cells (MFC)
- Molten Carbonate Fuel Cells (MCFC)
- System Integration

Hydrogen Technologies

- Electrolysis (Alkaline, PEM, Solid Oxide)
- Thermochemical and Biological Hydrogen Production (Biohydrogen)
- Hydrogen Transport, Refueling, and Infrastructure
- Hydrogen Safety and Handling
- Industrial, Mobility, and Energy Storage Use Cases

Solar and Photo-assisted Technologies

- Photoelectrochemical Cells (PEC)
- Photocatalysis
- Solar-driven Redox Cycles and Hybrid Systems
- Coupled Solar-Fuel Cell Systems
- Advanced Photocatalytic Materials, and Hybrid Materials Design
- Mechanistic Reaction Pathway and Charge Carrier Dynamics

Advanced Materials for Energy Conversion and Storage

- Catalysts and Electrocatalysts
- Membranes and Membrane Electrode Assemblies (MEA)
- Electrodes and Support Materials
- Interfaces and Surface Modifications
- High-temperature and High-efficiency Materials

Computational and AI-driven Energy Research

- Artificial Intelligence (AI) and Machine Learning (ML) for Energy Materials and Systems
- Computational Design and Multiscale Modeling of Fuel Cell, Hydrogen, and Solar Processes
- Data-driven Screening and Optimization of Catalysts and Interfaces
- Accelerated Simulation and Digital Twin Approaches
- Predictive Modelling for Reaction Kinetics, Transport, and Durability

Sustainability, Policy, and Socioeconomic Aspects

- Life Cycle Analysis (LCA) and Circular Economy
- Environmental Issues and Carbon Footprint Reduction
- National and International Programs & Perspectives
- Hydrogen Economy, Financing, and Market Deployment
- Social Acceptance and Public Awareness
- Policy, Regulation, and Safety Standards

STEM Education

- STEM Curriculum Development in Renewable and Hydrogen Technologies
- Educational Tools and Training for Green Technology
- Digital and Virtual Learning for Energy and Sustainability
- Outreach, Communication, and Community Awareness
- Industry-Academia Partnerships in Education and Workforce Development

Cross-disciplinary

- Green and Renewable Energy Systems
- Nanotechnology for Energy Applications
- Low Carbon and Net-zero Technologies
- Thermochemical Cycles and Conversion
- Electrochemistry and Corrosion Engineering
- Chemical Process Modeling, Separation, and Control
- Catalysis and Reaction Engineering
- Battery, Supercapacitor, and Hybrid Energy Systems
- Polymer and Environmental Engineering
- Biochemical and Bioprocess Engineering



Hybrid Mode

SFCHT-SSH 2026

THE 4TH SYMPOSIUM ON FUEL CELL & HYDROGEN TECHNOLOGY IN CONJUNCTION WITH 2ND INTERNATIONAL SYMPOSIUM ON SOLAR HYDROGEN, PUTRAJAYA, MALAYSIA

29 - 30 JULY 2026

**PALM GARDEN HOTEL
PUTRAJAYA, MALAYSIA**

THE 4TH SYMPOSIUM ON FUEL CELL AND HYDROGEN TECHNOLOGY

**in conjunction with
2ND INTERNATIONAL SYMPOSIUM ON SOLAR HYDROGEN 2026**

**REIMAGINING SUSTAINABLE FUTURES:
CIRCULAR ECONOMY AND GREEN TECHNOLOGIES WITH AI-DRIVEN CLEAN ENERGY INNOVATION**



Venue
Putrajaya
Malaysia



Participant
Local &
International



Output
Impactful
Research



Hybrid Mode
In-person
& virtual

Organizer:



UNIVERSITI
KEBANGSAAN
MALAYSIA
The National University
of Malaysia



BACKGROUND

The Fuel Cell Institute (SELFUEL) at Universiti Kebangsaan Malaysia (UKM) is organizing the 4th Symposium on Fuel Cell and Hydrogen Technology In Conjunction With The 2nd International Symposium on Solar Hydrogen 2026 (SFCHT-SSH 2026) on July 29th - 30th, 2026. The conference, which is expected to have over 100 participants, will be held in person and hybrid. It will focus on the fusion of multiple fields and applications related to fuel cells and hydrogen technology, with an emphasis on materials and systems.

Green and renewable energy will also be addressed. SFCHT-SSH 2026 aims to bring together scholars, researchers, scientists, experts, and students in the fuel cell and hydrogen technology field to discuss new developments, concepts, practices, and field experiences, as well as to identify research needs and technological advances.

The conference will cover topics such as Fuel Cells for Mobile and Stationary Systems, Hydrogen Technology, Materials, Life-cycle Analysis & Circular Economy, Artificial Intelligence in Renewable Energies, STEM Education and Miscellaneous (including green technology, renewable energy, nanotechnology, battery and other technologies).

IMPORTANT DATES

Abstract submission deadline:

29 April 2026

Notification of acceptance:

1 November 2025 onwards

Registration & payment deadline:

29 April 2026

Conference Date:

29 & 30 July 2026

Full Paper Submission to Journal Special Issues (By Invitation):

1 September 2026

FEES

Local Participant (MYR)

Physical: Academician / Student	Virtual: Academician / Student	Attendee: Public / Student	Industry / Agency / NGO
1600	1000	600	3000

International (USD)

Physical: Academician / Student	Virtual: Academician / Student	Attendee: Public Delegate / Student
600	250	150

PLENARY SPEAKERS



Prof. Emeritus Dato' Ir. Dr. Wan Ramli Wan Daud (TBC)

The Malaysian Association of Hydrogen Energy (MAHE), Malaysia



Prof. Dr. Eng Eniya Listiani Dewi (TBC)

Research and Innovation Agency of the Republic of Indonesia (BRIN), Indonesia



Prof. Dr. Junji Inukai

University of Yamanashi, Japan



Prof. Dr. Yang Shao-Horn (TBC)

Massachusetts Institute of Technology (MIT), United States



Dr. Mahendra Roa Somalu

Lynas Rare Earth Ltd, Malaysia



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SCAN FOR FURTHER INFORMATION:

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