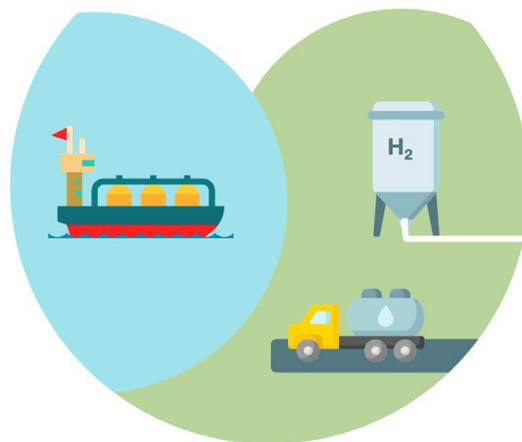


# Hydrogen Liquefaction and Storage Symposium

Transporting and storage of hydrogen in liquid state is identified as one of the critical options to develop hydrogen export industry in Australia. The liquefaction process (and storage of liquid hydrogen) needs to be efficient in order to make this option reasonable from an economic and ecological point of view. However, the current technologies are limited by many challenges including cost, energy consumption, materials design and boil-off gas, making the identification of most promising liquefaction process crucial. This symposium is focused on Hydrogen liquefaction and storage, engaging the WA State Government, industrial and academic experts to improve our knowledge capacity and identify better solutions for hydrogen liquefaction at large scale. This two-day symposium will identify the experimental, technology and theoretical studies still needed to address all technical issues associated with hydrogen liquefaction, transportation and storage.

The symposium will bring together global and local experts on H<sub>2</sub>, natural gas and LNG and will be research focused to achieve the following objectives:

- Address and share latest existing research and technologies for hydrogen liquefaction and storage. Invited talks will address some of the technical issues in this area including liquefaction concepts, operating conditions, para to ortho conversion, BOG and safety issues, and lack of experimental and accurate thermodynamic models.
- Understand driving forces, current efforts and future plans for industrially-focussed H<sub>2</sub> research, both in Australia and internationally.
- Learn about the LNG Futures Facility and proposed CRC, its potential capabilities for industrial-scale testing at high-pressures and cryogenic temperatures, and the proposed R&D program for hydrogen industry.
- Develop an industry-led R&D plan to accelerate the growth of H<sub>2</sub> exports from Australia that is complementary and avoids duplicating existing research initiatives.



## Event Details

**When:** Thursday 26th September and  
Friday 27th September 2019  
8.30am - 5pm

**Where:** Institute of Advanced Studies, UWA

**Cost:** Free

**By invitation ONLY:**

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## Convenors:

Saif Al Ghafri, Eric May, Michael Johns, Jill Stajduhar, Paul Stanwix and Zach Aman

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