

## 10<sup>th</sup> International Symposium “Hydrogen & Energy”

Hydrogen and metal hydrides are of key importance in designing next-generation energy storage and conversion technologies. Approximately 60 researchers ranging from students to world leading experts in the field of hydrogen energy participated in the 10<sup>th</sup> International Symposium “Hydrogen & Energy” held in Miyagi Zao, Sendai on February 21–26, and discussed their latest experimental/theoretical results.

The development of next-generation energy storage and conversion technologies utilizing hydrides is expected to play a key role in the establishment of a sustainable energy society. The 10<sup>th</sup> International Symposium “Hydrogen & Energy” serves as an information platform of the fundamental science and technology, and the frontiers of research on hydrogen and energy. The symposium was cooperatively supported by E-IMR, WPI-AIMR, and JSPS KAKENHI (S).

The symposium consisted of invited keynote lectures reviewing the key elements of the hydrogen cycle, i.e. the hydrogen production, hydrogen storage and hydrogen combustion and fuel cells. Furthermore, the conversion technologies of renewable energy in general and novel energy carriers besides and beyond hydrogen were discussed. The world leading experts presented their current research challenges and most important results in invited and contributing talks. Early stage and experienced researchers presented their latest results and the open questions on poster presentations.

This symposium provided an excellent opportunity for researchers to share their latest ideas and findings, and forge new partnerships. It was enthusiastically received by many of the participants. We would like to thank all those who involved in this symposium and support from ICC-IMR.



Fig. 1 Scenes of oral and poster sessions.



Fig. 2 Group photo.

---

Keywords: Hydrogen production, Hydrogen storage, Hydrogen applications  
Shin-ichi ORIMO (Hydrogen Functional Materials Division)  
E-mail: [orimo@imr.tohoku.ac.jp](mailto:orimo@imr.tohoku.ac.jp)  
<http://www.hydrogen.imr.tohoku.ac.jp/>