

II International Conference “Hydrogen Storage Technologies: Systems Engineering and Infrastructure”



Moscow, 28 - 29 October 2009

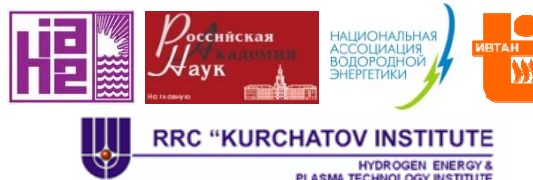
Conference Organizers



International Partnership for Hydrogen Economy (IPHE)
Federal Agency for Science and Innovation (Russia)



With collaboration and support of



International Hydrogen Energy Association

Russian Academy of Sciences

National Hydrogen Energy Association (Russia)

Joint Institute for High Temperatures RAS

Hydrogen energy & Plasma Technologies Institute (RRC "Kurchatov institute")

Media partners



International Information, Training and Consulting Center (NP "INCOT")

«Technopolis XXI»

Center for Energy and Resource-efficient Technologies

Conference Objectives

- To provide a forum for information exchange on key technologies that could lead to breakthrough solutions for hydrogen storage, infrastructure and safety
- To track worldwide progress and identify critical areas that may benefit by leveraging R&D worldwide
- To promote further international collaboration for addressing the scientific and technical challenges of hydrogen storage systems technologies and for encouraging the development of hydrogen infrastructure worldwide
- To provide recommendations to the Steering Committee and the Implementing and Liaison Committee of the IPHE on possible activities related to the above

Conference Scope

Hydrogen storage is a key enabling technology for the widespread use of hydrogen as an energy carrier for transportation, portable and stationary applications worldwide. Therefore, research and development of commercially viable, energy-efficient and safe hydrogen storage materials and systems are the focus of many international and national research programs.

The First International IPHE “Hydrogen Storage Technology Conference” was held in June 19-22, 2005 in Lucca, Italy. It was a forum for presenting and discussing the status of various storage technologies, remaining challenges and opportunities for global collaboration. As a result, six multi-national R&D projects were initiated under the IPHE in addition to ongoing collaborations with the IEA Hydrogen Implementing Agreement (Task 22) activity on hydrogen storage.

Since the first IPHE storage conference, substantial progress has been made on new materials for reversible and non-reversible hydrogen storage approaches. However, engineering issues for the development of energy efficient, high capacity and commercially viable systems remain to be addressed. The critical issues of systems integration, including thermal management, requirements for purification devices, integration with stationary and mobile power units, safety and set-up of infrastructure, along with the development of new materials including nano-structured approaches, will be the focus of a follow up IPHE Conference: II International Conference “Hydrogen Storage Technologies: Systems Engineering and Infrastructure”.

Conference Topics

- International and National Programs addressing Hydrogen Storage Technologies & Hydrogen Infrastructure Development
- Engineering Problems of Hydrogen Storage Systems, System Integration and Hydrogen Infrastructure Development
- Addressing Hydrogen Safety: reliability of hydrogen technologies, safety of components and infrastructure. Risk management
- Hydrogen Storage-related Demonstration Activities: current status and prospects
- International Collaboration in the field of Hydrogen Storage Systems and Infrastructure Development

Exhibition

The Conference will be arranged in conjunction with the Russian national exhibition.

Abstracts submission

The official languages of the Conference will be English and Russian. Simultaneous translation services will be provided at all sessions.

Abstracts of all accepted papers will be published and provided to the participants during registration. All papers for publication are to be submitted in Russian and English and should be sent by electronic mail, as an attachment. For details see website www.h2storage.net.

Deadline for abstract submission	25 August 2009
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Conference Office



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