



June 2008

Invitation

Zemships Conference in Hamburg on the 23rd of October 2008.

Crossing the Alster lake without emissions: The world's first fuel cell powered passenger ship

Dear Madame or Sir,

we would hereby sincerely like to invite you to take part in the first Zemships conference. It will take place within the international H2EXPO fair. It is held at the Congress Center Hamburg on the 23rd of October 2008.

What is Zemships? Zemships stands for zero emission ships. Project objectives are to develop and operate a fuel cell powered passenger ship as well as a corresponding hydrogen filling station. For more detailed information please visit www.zemships.eu.

On the conference for the first time detailed insight will be provided concerning the daily operation procedures and handling experiences of the ship and the hydrogen filling station:

- The role of fuel cells in ship operation
- Security and classification procedures of fuel cell ships
- The fuel cell system and future ship projects
- Construction and design of the ship and the refueling station
- Hydrogen infrastructure

For an overview of the complete conference program please take a look at the enclosed conference agenda. Further more as a conference participant you will have the pleasure to gain a first hand impression of the fuel cell boat while joining in on an optional trial cruise.

Interested? Please register online via the following link http://www.hamburg-messe.de/H2Expo/h2_en/zemships_registration.php. We are looking forward to your visit!

For further questions and inquiries do not hesitate to contact Tarik Hammou via phone or E-mail (Tel. 0049(040) 32 88-44 75, E-Mail: karim-tarik.hammou@hysolutions-hamburg.de).

Yours sincerely

Anke Stolper
Freie und Hansestadt Hamburg
Behörde für Stadtentwicklung und Umwelt

Gabriele Müller-Remer
Alstertouristik GmbH



Agenda

Schedule	Topic of presentation	Speaker
	Chair: Heinrich Klingenberg (Managing Director hySOLUTIONS)	
10:00	Greetings from the Senator of the Ministry of Urban Development and Environment of the Free and Hanseatic City of Hamburg	Anja Hajduk (Senator; to be confirmed)
10:15	The role of hydrogen and fuel cell technology in the European energy policy	Mogens Peter Carl (Managing Director of the DG Environment of the EU; to be confirmed)
10:45	The City of Hamburg and its fuel cell activities and long-term strategy	Petra Kampmann & Karim-Tarik Hammou (hySOLUTIONS)
11:15	What is Zemships? Project objectives, contents and communications	Anke Stolper (Ministry of Urban Development and Environment of the Free and Hanseatic City of Hamburg)
11:45	Questions & Discussions	
12:00	Lunch break	
	Chair: Dr. Gerd-Michael Würsig (Germanischer Lloyd)	
13:30	The role of fuel cells in ship operation: Current applications and future developments	Gunther Sattler (Free Lancing engineer)
14:00	Safety and classification procedures of fuel cell ships	Finn Vogler (Germanischer Lloyd)
14:20	Fuel cell systems for zero emission ships: The Zemships propulsion system and beyond	Anno Mertens (Proton Motor)
14:40	Construction and design of Zemships and first operating experiences	Gabriele Müller-Remer (Managing Director ATG)
15:00	Coffee break	
	Chair: Benedikt Eska (Proton Motor)	
15:15	Construction and design of hydrogen filling stations with a focus on the Zemships filling station	Christian Tuchel (Linde Group)
15:35	Well-to-marine-propeller-analysis: Energy efficiency of hydrogen production and hydrogen supply	Alexander von Stryck & Bastian Sass (University of Applied Sciences HAW)
15:55	Mathematical model of ship propulsion and data visualization	Ludek Janik & Petr Dlouhly (UJV)
16:15	Closing words, summary and outlook	Heinrich Klingenberg (Managing Director hySOLUTIONS)
16:30-18:30	Trip with the fuel cell ship on the Alster lake and come together for conference participants	