

ICHS, Pisa (I), September 8-10, 2005



EU NoE HySafe

"Safety of Hydrogen as an Energy Carrier"

invites to the:

ICHS
International Conference
on Hydrogen Safety

September 8-10, 2005

Congress Palace

Pisa, Italy

ICHS, Pisa (I), September 8-10, 2005

In Association with:



CUTE EU PROJECT



NATURALHY EU PROJECT



STORHY EU PROJECT



ITALIAN NATIONAL FIRECORPS

With the Collaboration of:



**INTERNATIONAL ASSOCIATION
FOR HYDROGEN ENERGY**

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ICHS CONFERENCE - SCOPE

Hydrogen safety issues are subject to numerous research efforts. However, there are still a number of knowledge gaps with significant deficiencies in terms of safe technical solutions (i.e. mitigation techniques), and in the availability and scope of widely accepted and harmonised standards and methodologies, together with associated regulatory issues.

The ICHS conference will therefore focus on safety issues relevant to improve and co-ordinate the knowledge and understanding of hydrogen safety and will aim at the provision of a basis that will allow removal of safety-related barriers to implementation of hydrogen as an energy carrier. In this way it will also contribute to promoting public awareness and trust in hydrogen technology within Europe by providing a basis for communicating the risks associated with hydrogen.

The Conference is addressed to all EU Projects as well as to International Projects, University and Research Institutes, Industry, Government and Municipal Bodies, Reliability and Safety Consultants and other persons interested in the conference topics.

Since this event will focus on safety issues and trust building measures its contents will be different from other "Hydrogen Conferences". All contributions will be exclusively evaluated in terms of safety aspects.

ICHS CONFERENCE – STRUCTURE

The main ICHS Conference organizing items are: Regular Sessions and Sub-sessions (Oral and Poster), Conclusions at the end of each Sub-sessions (all Sessions and Sub-sessions will be closed in terms of what has been already developed and of what is still going on), and Round Table at the end of the Conference held by the Scientific Committee members of each Session and Sub-sessions.

THEMATIC SESSIONS AND SUB-SESSIONS

1st Session: Hydrogen Hazard and Risk

- 1.1: Hydrogen release, mixing, and distribution
- 1.2: Ignition properties, thermal, pressure, and missile effects from H₂ fires and H₂-air explosions
- 1.3: Mitigation techniques
- 1.4: Risk evaluation, both specific and in comparison with today's fossil energy carrier

2nd Session: Hydrogen Production and handling

- 2.1: Production
- 2.2: Storage
- 2.3: Transport and distribution - refueling stations

3rd Session: Hydrogen Applications

- 3.1: Vehicles powered with H₂
- 3.2: Tunnels, parking and garage
- 3.3: Portable and stationary H₂ applications

4th Session: Standardisation and legal requirements

- 4.1: Standards
- 4.2: Regulations

ABSTRACT SUBMISSION

The deadline for the abstract's submission is January 31st, 2005.

Authors have to use the electronic form and forward it at the Secretariat e-mail address.

The abstract should not include formulas and figures and not exceed 30 lines. The abstracts have to indicate the reference thematic sessions and sub-sessions, the title of paper and the Author(s) Name(s). The abstracts will be evaluated by the members of the Scientific Committee; the judgement will be forwarded to the authors by mail.

FULL PAPER SUBMISSION

All contributions will be evaluated exclusively in terms of safety.

Authors are requested to submit their full papers in electronic form directly to the Secretariat e-mail address.

The maximum length of papers is 12 A4 pages. The papers will be accepted after the reviewing process performed by the members of the Scientific Committee. Each paper will be analysed by the reviewers who will be asked to evaluate it and to give suggestions and ways of its improving. Only papers prepared according to the paper template given at the Conference Website will be considered.

Accepted papers will be published in Conference Proceedings that will be available at the beginning of the Conference.

CONFERENCE PROCEEDINGS

The proceedings will be edited in CD form for the Conference.

After additional review selected papers will be published in the **International Journal of Hydrogen Energy** and in the Hysafe **Biennial Report of Hydrogen Safety**.

CONFERENCE DEADLINES

- Submission of Abstracts **January 31st**, 2005
- Full Papers Submission **May 1st**, 2005
- Acceptance of Papers **June 1st**, 2005
- Submission of Paper Final Versions and Payment of Conference Fees **July 1st**, 2005
- ICHS Conference **September 8-10**, 2005

CONFERENCE ORGANIZING COMMITTEE

L. Bauwens (CDN), M. Carcassi (I), G. Chimenti (I), M. Grosse (D), G. Hankinson (UK), T. Jordan (D), G. W. Mair (D), D. Makarov (UK), A. Marangon (I), H. Paillere (F), G. Romano (I), M. Schuckert (D), N. Versloot (NL)

CONFERENCE SCIENTIFIC COMMITTEE

P. Adams (UK), D. Baraldi (I), G. Cacciola (I), F. Ceccherini (I), N. Chaumeix (F), H. Crutzen (B), M. A. Delichatsios (UK/GR), S. B. Dorofeev (USA), M. Fairweather (UK), B. G. Halvorsen (N), G. P. Haugom (N), T. Hirano (J), C. Kirchsteiger (A), F. Markert (DK), V. V. Molkov (UK), H. J. Pasma (NL), C. Rasche (NL), E. A. Reinecke (D), U. Schmidtchen (D), V. Tam (UK), A. V. Tchouvelev (CND), A. Teodorczyk (PL), R. Vellone (I), K. Verfondern (D), F. Williams (USA)

CONFERENCE LANGUAGE

The Conference language is English. No translation will be provided.

CONFERENCE CENTRE

Congress Palace, Pisa (I)

CONFERENCE INFO

Website: www.hysafe.org/conference

Secretariat e-mail: ICHHS@hysafe.org

PROJECTS & ORGANIZATIONS

CUTE EU PROJECT

AVL (L), BL (E), BPA (UK), DE (D), EMT (E), Evo (D), FirstGroup (UK), FLEAA (L), GVB (NL), HHA (D), HEW (D), IST (P), London Buses (UK), MDA (NL), MF (S), MVV (D), Norsk Hydro (N), PE (D), Planet (D), Polis (B), Shell (NL), SL (SE), SSB (D), Statkraft (N), STCP (P), Sydkraft (S), TB (E), USTUTT (D).

HYSAFE PROJECT:

Forschungszentrum Karlsruhe GmbH (D), Air Liquide (F), Federal Institute for Materials Research and Testing (D), BMW Forschung und Technik GmbH (D), Building Research Establishment Ltd (UK), Commissariat à l’Energie Atomique (F), Det Norske Veritas AS (N), Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung e.V. (D), Forschungszentrum Juelich GmbH (D), GexCon AS (N), Foundation INASMET (E), Institut National de l’Environnement industriel et des RISques (F), Instituto Superior Tecnico (PT), European Commission - Joint Research Centre - Institute for Energy (NL), National Center for Scientific Research Demokritos (GR), Norsk Hydro ASA (N), Risø National Laboratory (DK), The United Kingdom’s Health and Safety Laboratory (UK), TNO (NL), University of Calgary (CND), University of Pisa (I), Universidad Politécnica de Madrid (E), University of Ulster (UK), Volvo Technology Corporation (S), Warsaw University of Technology (PL).

NATURALHY EU PROJECT:

Borås (S), BP (UK), Commissariat à l’Energie Atomique (F), CETH (F), CMI (UK), COGEN (B), CSM (I), DBI (D), DEPA (GR), DGC (D), ECN (NL), ENIM (F), Exergia (GR), Gasunie (NL), GdF (F), GE PII (UK), GERG (B), IFP (F), IGDAS (TR), ISQ (P), Leeds (UK), Loughborough University (UK), Midt-Nord (DK), NEN (NL), NTNU (NO), NTUA (GR), PLANET (D), Saviko (DK), Sheffield Hallam University (UK), Shell Global Solutions (UK), SHELL H2 (UK), SQS (P), STATOIL (NO), The United Kingdom’s Health and Safety Laboratory (UK), TNO Industrie (NL), TOG (UK), Total (F), Transco (UK), TU Berlin (D), Tubitak (TR), WPTG (UK).

STORHY EU PROJECT:

ADETE - Advanced Engineering & Technologies GmbH (D), Air Liquide (F), Austrian Aerospace GmbH (A), BMW Forschung und Technik GmbH (D), Bundesanstalt für Materialforschung und -prüfung (D), Centre National de Recherche Scientifique / Université de Franche Comté (F), Comat Composite Materials GmbH (D), Commissariat à l’Energie Atomique (F), Contraves Space AG (CH), Daimler Chrysler AG (D), Dynetek Europe GmbH (D), ET-Energie Technologie GmbH (D), European Commission - Directorate General Joint Reserach Centre (NL), Faber Industrie Spa (I), Ford Forschungszentrum Aachen GmbH (D), Forschungszentrum Karlsruhe

GmbH (D), Fundacion para la investigación y el desarrollo en Automovión (E), GKSS Forschungszentrum Geesthacht GmbH (D), Institut für Verbundwerkstoffe GmbH (D), Institute for Energy Technology (N), Institute for Protection Systems - Prochain e.V., Instituto nacional de técnica aeroespacial (E), Linde AG (D), MAGNA STEYR Fahrzeugtechnik AG & Co KG (D), MAN Technologie AG (D), Material S.A. (B), Air Liquide Deutschland GmbH (D), National Center for Scientific Research Demokritos (GR), Öko-Institut e.V. (D), PSA Peugeot Citroen Automobiles (F), University of Nottingham (UK), Volvo Technology Corporation (S), WEH GmbH (D), Wroclaw University of Technology (PL).

ITALIAN NATIONAL FIRECORPS (Italian Ministry of Interior Department): 35.000 Personnel, 1.500 Engineers, 600 Fire stations (land, ports, airports), 3 training centres.

REGISTRATION / INFORMATION FORM:

Title (Prof. Dr. Mr. Mrs. Ms.): _____

Surname / Name: _____

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To be sent:

via E-Mail at: ICHHS@hysafe.org or
by fax at: +39-050-836665

We will not disclose these informations to third parties.