







Encouraged by: The European Commission

EUROPEAN CONFERENCE

APPLICATION, INTEGRATION, CONTROL, MODELLING, TESTING, and INTELLIGENT CONTROL and INTELLIGENT MODELLING, OF FUEL CELLS and H2 APPLICATIONS and THEIRS ECONOMIC / ENVIRONMENT **CONSEQUENCES:**

H2 FUEL CELLS MILLENIUM CONVERGENCE

September 21, 22, 2007, Bucharest, ROMANIA, ACADEMIA ROMÂNĂ, AULA MAGNA, calea Victoriei 125

ACADEMIA ROMÂNĂ, and IPA SA, Bucharest.

Founded, or organized or encouraged, or in part supported by

ROMANIAN ACADEMY HFP

IPA SA

EUROPEN HYDROGEN & FC PLATFORM

RESEARCH ENTITY

Calea Victoriei 125, Bucharest www.academiaromana.ro

www.hfpeurope.org

Calea Floreasca 169, Bucharest www.ipa.ro

supported by

MED-ANCS

MINISTRY OF EDUCATION and RESEARCH, ROMANIA

achieved also with the participation of the

EUROPEAN HYDROGEN ASSOCIATION.

The Institute for Energy Research - Fuel Cells, Forschungszentrum Jülich, Germany,

ASE

ACADEMY for ECONOMIC STUDIES www.acad.ro

NATIONAL INSTITUTE FOR R&D IN INFORMATICS www.ici.ro

POLITEHNICA UNIVERSITY

ICSI Research Institute.

ECOLOGY UNIVERSITY

Râmnicu Vâlcea

UE-Bucharest

and with the encouragements and participation of:

ROMANIAN ACADEMY,

UPB, Bucharest

- HFP European Hydrogen and Fuel Cells Platform, Europe,
 - MED-ANCS, MINISTRY OF EDUCATION and RESEARCH, ROMANIA,
- EUROPEAN HYDROGEN ASSOCIATION
- The INSTITUTE FOR ENERGY RESEARCH - FUEL CELLS, Forschungszentrum Jülich, Germany,
- П IPA SA, Bucharest,

- П ICSI, Râmnicu Vâlcea, and Hyrogen Platform from ICSI Râmnicu Vâlcea,
- ICEMENERG, Bucharest,

- ICI, Bucharest,
- Faculty of Electronics and IT&C Technology of UNIVERSITY "POLITEHNICA" Bucharest,
- Faculty of Automation Engineering & Computers of UNIVERSITY "POLITEHNICA" Bucharest,
- Faculty of Energy of of UNIVERSITY "POLITEHNICA" Bucharest,
- Ecology University, Bucharest,
- University Ovidiu, Constanta,
- ICPE, Bucharest,
- П ICPE - Advanced Researches, Bucharest
- Chamber of Commerce, Industry and Agriculture, Giurgiu,
- and many initiatives and projects. The creation of Consortia and Projects <u>BROKERAGES</u>. The Project H2FC Integrator. PROPOSED ORGANIZING COMMITTEE:

FIRST HONORIFIC CONFERENCE CHAIRS

Detlef STOLTEN

Florin FILIP

Florian UDRESCU

Univ. Prof. Dr., Director of the Institute

Vice-President of Romanian Academy,

Principal Scientist, General Manager IPA SA

for Energy Research-Fuel Cells.

Marieke REIJALT

John F. ELTER,

Jülich, Germany

Executive Director, European Hydrogen Association

PhD, CTO, PlugPower, USA

HONORIFIC CONFERENCE CHAIRS:

Gleb DRĂGAN

Academician, Romanian Academy

Wolfgang WINKLER,

University Professor Dr., Hamburg University, Germany

Ioan DUMITRACHE,

Univ. Professor Dr., Member Corresp. of Romanian Academy

Crisitian PREDESCU,

Univ. Prof. Dr. Ing., Politehnica University Bucharest

Rosalie ZOBEL, Ph.D

Director of the IST Programme. European Commission

Mihai CARAMIHAI, First Research Scientist, Univ. Professor Dr. Ing., POLITEHNICA University Bucharest

Ulrich SCHMIDTCHEN

German Hydrogen and Fuel Cell Association (DWV)

Silviu Dorian CHELARU,

IPA SA, Electrolyzers Trends

Prof. Dr. Fiz. Wilhelm KAPPEL Director General, ICPE, Advanced Researches

Paul PENCIOIU,

Principal Research Scientist, Scientific Director of ICPE,

Mariana ILIESCU

Principal Research Scientist, ICSI Râmnicu Vâlcea

Ing. Elena ENESCU

Vice -Director, ICPE Advanced Researches

Dan Alexandru STOICHESCU

Univ. Professor Dr., UPB, Bucharest

Eden MAMUT,

Univ. Prof. Dr., Ovidiu University Constanța

Dan TEODOREANU,

Ph.D., Principal Research Scientist, ICPE, Bucharest,

Mihai CULCER,

Ph.D., Principal Research Scientist, ICSI Râmnicu Vâlcea

SCIENTIFIC CHAIR

Gabriel VLADUT, Principal Research Scientist, SC IPA SA

HONORIFIC CONFERENCE CHAIRS:

Ecaterina ANDRONESCU Univ. Prof. Dr. Ing. UPB Bucharest

Ion Gh. ROSCA, Univ. Prof. Dr, **RECTOR of ASE, Bucharest**

Anton ANTON,

University Professor Dr. Eng., MED-ANCS, Romania

Stephan PASCALL

Adviser, European Commission

Mircea DUTU

Univ. Prof. Dr, RECTOR of UE-B, Bucharest,

Dumitru MIRON, University Prof., Dr.,

ASE, Academy of Economic Studies

Ioan ȘTEFĂNESCU

University Professor Dr.

Director of ICSI Râmnicu Vâlcea

Mariana BISTRAN

Principal Resrearch Scientist, IPA SA, Conference Co-Fonder

Vasile STANCIU,

Ph. D., Principal Research Scientist, ICSI Râmnicu Vâlcea

Dr. -Ing. Rolf BLATTNER,

Forschungszentrum Karlsruhe GmbH

Peter LOFFLER

EU Commission, IEEA

Camelia CAMAŞOIU

Univ. Professor Dr., Prorector of UE-B

Radu DOBRESCU, Univ. Prof. Dr. Eng. **POLITEHNICA University Bucharest**

> Ciprian ALEXANDRU Teaching Staff, UE-B, Bucharest

> > Jochen STRAUB

Ballard Inc. Canada

Iulia MIHAIL.

Director, MED-ANCS, Romania

ORGANIZATORIC CHAIR

Sorin BABAN, SC IPA SA

CONFERENCE FOUNDER and CHAIR:

CONFERENCE FOUNDER and CHAIR:

Gheorghe Mincu SĂNDULESCU,

University Prof., Dr. Eng., First Research Scientist, IPA SA, Bucharest, Director for Advanced Reseraches, Member Corresp. of the European Academy of Sciences,

Florin FILIP,

Vice-president **ROMANIAN ACADEMY**

CONFERENCE GOALS

To provide a forum for the presentation, discussion, dissemination and generation of new and favourable ideas in the fields of the

APPLICATION, INTEGRATION, CONTROL, MODELLING, TESTING and INTELLIGENT CONTROL and INTELLIGENT MODELLING OF THE FUEL CELLS AND OF THE H2 APPLICATIONS.

- To add steps in advance in the fields of hydrogen and fuel cells researches, studies, developments and successfully integration,
- To add scientific contributions in the speeding the accomplishemnt of successes in above, very important scientific and technical fields
- To contribute at the European sustainable growing of the fuel cells and H2 applications and developments,
- To encourage European Research, especially inside the frames of the European Commission, in the fields of the APPLICATION, INTEGRATION, CONTROL, MODELLING, TESTING and INTELLLIGENT CONTROL and INTELLIGENT MODELLING OF FUEL CELLS.
- To contribute at the generation of the efficient consortia and proposals of projects, in the Conference's fields. To contribute at ERA activities and results in the Fuel cells applications and developments.
- To add contributions ant the speeding of the implementation of the Hydrogen Economy.
- To add important influences at the dissemination, awareness creation and correct information of and responses from the stackholdrers and end-users.

Conference Language

The official language of the event is English.

Conference Location

The conference will be held in Bucharest, the city that was mentioned, in the year 1459, in the official papers of Vlad Tepes Voivode (named also Dracula) and where the very important, country Voivode (Voievod) Dracula, was referred to as an efficient trade developer, a good commerce man and an interesting commercial rules analyst.

Bucharest is at half distance between the Carpathians and the Black Sea, and offers splendid sightseeing opportunities and climate. September is one of the most pleasant and beautiful month of the year in Bucharest.

Conference Venue

Academia Romană, AULA MAGNA, calea Victoriei 125, Bucharest. Registration Desk at the entry of AULA MAGNA Hall.

Important aspects and dates:

• Submission of Papers: dead - line 1 September 2007

- All received in due time and accepted papers will be automatically typed, in the preprints, without any obligations from the part of the Conference organizers,
- Papers should be sent by e-mail to: H2_FC_MILLEN_CONV@ipa.ro Head: Monica Visu.

Conference Proceedings:

The Conference Proceedings will include, without any obligations from the organizers part, and without other information to the elaborators of papers, the accepted papers. Each paper is necessary to not surpass 10 pages (A4).

Registration fee

- * Registration: Euro 200 (free registration for students and teachers, based on relevant documents/ student card).
- Transport to Bucharest and accommodation are **not** included in the conference fee.,
- The fee (referring only to paid registration), includes the possibilities of participation at the all sections and at scientific and at the social activities of the Conference, the bag with preprints and possible annexes, refreshments and entry at Meetings Cocktails.

Preliminary Leaflet

http://www.ipa.ro/H2 FUEL CELLS MILLENIUM CONVERGENCE

Notes:

- 1.The firms symbols and names, for instance Microsoft ®, are object of registration of the respective firms or entities.
- 2. The words combination: **H2_FUEL_CELLS_MILENIUM_CONVERGENCE** ... is object of registration of IPA SA Bucharest and of Romanian Academy.
- 3. The presentation of the symbols of EU Commission do not imply any obligations from the part of these entities, nor does involve any responsibility on their part.
- 4.The indicated projects, presented in this leaflet, are achieved with the support from the European Commission or of MEdC Romania.
- 5. The content of cited projects, or of materials, or of this leaflet does not necessarily reflect the position of the European Community, nor does involve any responsibility on their part, nor from the organisators part, nor from other part or entity.

Edited and printed by IPA SA PUBLISHING HOUSE

of IPA SA Bucharest