Clean Energy from Hydrogen-Metal Systems

– CleanHME –

Kick-Off Meeting of the Project Consortium supported by the EU grant 951974:

FETPROACT-EIC-05-2019 Boosting emerging technologies

Breakthrough zero-emissions energy generation for full decarbonization

23.09.-25.09.2020, University of Szczecin, Poland

The main aim of the project is to develop a new, clean, safe, compact and very efficient energy source based on Hydrogen-Metal systems, which could be a breakthrough for both private use as well as for industrial applications.

Organizers:

Institute of Physics
Faculty of Physical, Mathematical and Natural Sciences
University of Szczecin, Poland
ul. Wielkopolska 15, 70-451 Szczecin

Organizing Committee:

K. Czerski, N. Targosz-Ślęczka, M. Kaczmarski, A. Kowalska, Edyta Kowalczyk-Łuc

Combination of the face-to-face conference and on-line participation (MS Teams platform)

Conference Program:

Tuesday, September 22

17:00- 19:00 Registration of the conference participants

19:00 Welcome Banquet, place to be specified

Wednesday, September 23 – "Rektorat" of the University of Szczecin, al. Papieza Jana Pawla II 22a, 70-453 Szczecin

8:00-10:00 Registration of the conference participants

9:00 Press Conference

10:00 Opening of the Conference

Rector of University of Szczecin
Rector of Maritime University of Szczecin
Representatives of the local Government and City

The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951974.

10:30 Opening Lecture: History of Low Energy Nuclear Reactions (P. Hagelstein, MIT, USA, 30' talk, recorded)

11:00 Plenary Lecture: Present Status and Perspectives of Low Energy Nuclear Reactions (J. Kasagi Tohoku University, Japan, 25' talk + 5' discussion)

11:30 Clean Energy from Hydrogen-Metal Systems: Problems to Solve (K. Czerski, University of Szczecin, Poland)

12:00 HERMES Project, (Pekka Peljo, University of Turku, Finnland)

12:30 – 13:30 Lunch (catering)

Chair: Natalia Targosz-Ślęczka

13:30 Electrolysis experiments, (J.P. Biberian, VEGATEC, France)

14:00 Gas loading experiments (F. Celani, INFN, Italy)

14:30 Accelerator experiments (M. Lipoglavsek, Josef Stefan Institute, Slovenia)

15:00 He-4 detection and correlation to the heat excess (D. Alexandrov, Lakehead University, Canada)

15:30 – 17:30 A short boat trip around the port of Szczecin

17:30 Catering

Chair: Konrad Czerski

18:00 Evening Public Lecture: Hot Nuclear Fusion, (M. Jakubowski, Max Planck Institute for Plasma Physics, Greifswald, Germany)

18:40 Evening Public Lecture: Climate Change and Energy Production Policy (Jacques Ruer, SART von Rohr, France)

Thursday, September 24 – Institute of Physics, Faculty of Physical, Mathematical and Natural Sciences, University of Szczecin, ul. Wielkopolska 15, 70-451 Szczecin

Chair: Jacques Ruer

9:00 Structure and research program of the CleanHME, K.Czerski (USZ)

9:20 WP1 and WP7: Project Managing and Dissemination, N. Targosz-Sleczka (USZ), A. Kovacs (BET)

9:40 WP2: Accelerator experiments, K. Czerski (USZ) + S. Bartalucci (INFN) + M. Lipoglavsek (JSI)

10:00 WP3: Gas Loading Experiments (Bulk Materials) and Detection Systems, Bo Hoistad (UU) + E. Mariotti (UniSi)

10:20 WP3: Gas Loading Experiments (Powder Materials), VEGA + FUT

10:40 WP3: Liquid/solid systems, A. Carpinteri (PoliTo)

11:00 -11:20 Coffee Break

The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951974.

Chair: Sergio Bartalucci

11:10 WP4: Preparation of active materials, Ch. Leroux (CNRS)

11:30 WP5: Theoretical Analysis, K. Czerski, V. Vysotskii

11:50 WP6: Application and Design of HME sources, SART

12:10 -13:10 Presentation of Commercial Companies and Research Associations (10' for each, not presented before):

Cyril Calatrava, SART

Jozef Zlomanczuk, UU

Guido Parchi, FUT

Arnaud Kodeck, LAKOCO

Andras Kovacs, BET

Robert Michel, VEGATEC

13:10 – 15:00 Lunch in chosen restaurants

15:00 -16:10 Discussion within WPs (separate conference rooms at the MS Teams platform)

WP1&WP7: N. Targosz-Ślęczka, A. Kovacs

WP2&WP5: F. Metzler, S. Bartalucci, M. Lipoglavsek

WP3: Bo Höistad, J.P. Biberian, G. Parchi, F. Michel

WP4&WP6: Ch. Leroux (CNRS), Jacques Ruer (SART)

16:10 – 16:30 Coffee Break

16:30 - 17:30 Panel discussion and conclusions, *Chair: Jean-Paul Biberian*

19:00 -23:00 Conference Dinner

Friday, 25 September – Institute of Physics, Faculty of Physical, Mathematical and Natural Sciences, University of Szczecin, ul. Wielkopolska 15, 70-451 Szczecin

9:00- 10:00 Visiting of the eLBRUS Labs

Chair: Guido Parchi

10:00 Research Managing (Reporting) of the Project, A. Kovacs (BET)

10:30 Financial Managing (Reporting) of the Project, A. Bartoszewska (Regional Contact Point, H'2020), E. Kowalczyk-Łuc (USZ)

11:00 Time Schedule of the Project, A. Kowalska (AM)

11:30 11:50 Coffee Break

The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951974.

11:50 -13:30 General Assembly Meeting:

Changes to the Consortium Agreements
Election of representatives to the Steering Board
Organization of the Steering Board Meetings
Organization of the next Consortium Meeting

13:30 – 14:30 Lunch (catering)

14:30 Meeting of the Steering Board
15:00 Meeting of individual WP participants
15:30 Final remarks and closing the conference, Bo Höistad

The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 951974.