

LATEST NEWS HYLANTIC PROJECT

Follow-up Project meeting – September 24-25, 2019



The fourth follow-up meeting of the European Project “Atlantic Network for Renewable Generation and Supply of Hydrogen to promote high energy efficiency – HYLANTIC” was held in Bristol (United Kingdom) and was hosted by Mr. Jas Singh from Auriga Energy. During the meeting, all partners presented their progresses from last meeting in Belfast and discuss about the

future actions to be done. The next meeting was planned to take place in Porto, on June 2020.

During the second day, Jas organized a Sight-seeing trip on-board the Hydrogenesis, the hydrogen powered ship developed in the frame of the project.



New Staff



Víctor Manuel Maestre, MSc in Industrial Engineering, joined the project “HYLANTIC: Atlantic network for renewable generation and supply of hydrogen to promote high energy efficiency (FEDER)”, as researcher of the Chemical and Biomolecular Engineering Department of the University of Cantabria.

Research Internship – November 2019 – January 2020

Rafael Ortiz developed a predoctoral research stay at the Institut für Energie- und Klimaforschung, IEK-3: Technoökonomische Systemanalyse“ of the Research Centre “Forschungszentrum Jülich GmbH”, in Germany, in the frame of HYLANTIC project. During his research internship he worked in energy systems modelling for the estimation of hydrogen regeneration in the Atlantic area by using renewable energies, under the supervision of Martin Robinius and Heidi Heinrichs.

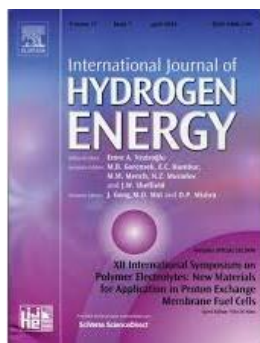


PUBLICATIONS

R. Ortiz-Imedio, A. Ortiz, J.C. Urroz, P. M. Diéguez, D. Gorri, L.M. Gandía, I. Ortiz. Comparative performance of coke oven gas, hydrogen and methane in a spark ignition engine. International Journal of Hydrogen Energy. Article in press. 2020. <https://doi.org/10.1016/j.ijhydene.2019.12.165>

S. Kashkarov, Z. Li, V. Molkov. Blast wave from a hydrogen tank rupture in a fire in the open: Hazard distance nomograms. International Journal of Hydrogen Energy 45, 2429-2446, 2019.

Gómez-Coma, V.M. Ortiz-Martínez, J. Carmona, L. Palacio, P. Prádanos, M.Fallanza, A. Ortiz, R. Ibáñez, I. Ortiz. Modeling the influence of divalent ions on membrane resistance and electric power in reverse electrodialysis. Journal of Membrane Science 592, 117385, 2019.



CONGRESSES

Aiche Meeting 2019 – November 10-15, 2019

Alfredo Ortiz attended the 2019 AIChE Annual Meeting, held in Orlando (USA), where he presented the work “Contribution of Upcycling Surplus Hydrogen to Design of a Sustainable Supply Chain: The Case Study of Northern Spain”.



Iberconappice 2019 – October 23-25, 2019

Alfredo Ortiz, coordinator of HYLANTIC project, attended the Congreso Iberoamericano de Hidrógeno y Pilas de Combustible IBERCONAPPICE 2019, held in Madrid (Spain), where he presented the work “High-purity hydrogen production by PSA technology of purge gases from ammonia plants”, developed in the frame of the project.



ICHS 2019 – September 24-26, 2019

Prof. V. Molkov attended International Conference on Hydrogen Safety 2019, held in Adelaide, (Australia), , where the following research topic was presented “Non-adiabatic under-expanded jet theory for blowdown and fire resistance rating of hydrogen tank”



ISPPCC 2019 - July 14-19, 2019



The DCU team attended the 23rd International Symposium on the Photochemistry and Photophysics of Coordination Compounds – ISPPCC, celebrated in Hong-Kong (China), where the the work “Combining Carbazole- and Phenothiazine based Photosensitizers with a DPPZ-unit for Photocatalytic Hydrogen Generation”, developed in the frame of Hylantic Project was presented.

DISSEMINATION EVENTS

BSH-UC Day – February 12, 2020



Alfredo Ortiz, coordinator of the European project “EAPA_204/2016 – “Atlantic Network for Renewable Generation and Supply of Hydrogen to Promote High Energy Efficiency”, participated in the BSH-UC Day, that took place in the BSH facilities, located in Santander (Cantabria, Spain), where he delivered the talk “Potential of Hydrogen in the energy mix home supply”.

Hyvolution event – February 4-5, 2020

Ulemco has participated in the hydrogen event for energy, industry and mobility “Hyvolution” celebrated in Paris (France). During their visit to Paris they were guests at the British Ambassador to France residence in Paris. They took their van along and had the ambassador interviewed while sitting in the van.



Conference, December 19, 2020



Alfredo Ortiz, coordinator of Hylantic Project, delivered a talk to secondary students in Santa Clara High School, in which he highlighted the importance of chemistry in the society and in the industrial and academic sector of Cantabria, using examples related to the topics that they study at school. Moreover, he talked about his experience coordinating the European project HYLANTIC: ATLANTIC NETWORK FOR RENEWABLE GENERATION AND SUPPLY OF HYDROGEN TO PROMOTE HIGH ENERGY EFFICIENCY (FEDER).

Interview - ULEMCO

Ms. Amanda Lynne, on behalf of ULEMCO, was interviewed by Protium.

The podcast of the last episode is available through Inspiratia website on the following links:

<https://www.inspiratia.com/welcome/podcasts/episode-7>

<https://open.spotify.com/episode/1ClpfalbLj6qkbvYavRppI>



European Researchers ´ Night 2019 – September 27, 2019



Rafael Ortiz and Gema Pérez, from the University of Cantabria, participated in the European Researchers´ Night celebrated in Santander and organized by the the Scientific Culture and Innovation Unit of the University of Cantabria. The event took place in the Pombo Square in Santander (Cantabria, Spain).