



Invitation

Workshop on educational material on hydrogen technologies

28th – 29th April 2020 • Copenhagen • Denmark

NET-Tools 2nd Education School

Novel Education and Training Tools based on digital applications related to
Hydrogen and Fuel Cell Technology



Organised and chaired by:

Prof h.c. Olaf Jedicke, Karlsruhe Institute of Technology, Germany

and the Net-tools project partners Ulster University, PersEE Innovation, Element Energy, Università degli Studi di Perugia, Institute of Electrochemistry and Energy Systems, Denmark Technical University, Demokritos





Introduction

The NET-Tools project is a coordination and support action funded by the FCH-JU 2.0. The main objective of the NET-Tools consortium is to develop an e-infrastructure and provides digital tools and information service for educational issues and training within FCH technologies based on the most recent IT tools. The NET-Tools technology platform is leveraging robust and effective open source/free learning management systems while offering a unique blend of novel digital tools encompassing the spheres of information, education and research. With its two main pillars e-Education, e-Laboratory, the project addresses various target groups and levels of education - from higher schools and universities (undergraduate and graduate students) to professionals and engineers from industry, offering both e-learning modules and on-line experimental techniques. The main goal is to develop tools for data- and computer-intensive research to enhance the knowledge, productivity and competitiveness of those interested or already directly involved in the massive implementation of H2 and FCH technologies in Europe. It has the capacity to pave the road to more efficient digital science combining latest technical achievements and an internet culture of openness and creativity, while pursuing the ambition to become the hydrogen counterpart of Coursera.

To achieve the major goal, NET-Tools project follows the specific objectives:

- deliver an open source based e-infrastructure dedicated to FCH knowledge and science;
- offer teaching user interfaces adapted to the different target audience: students and professionals;
- implement a digital laboratory workspace;
- consolidate existing e-education and e-knowledge;
- develop novel training delivery methods together with new digital practices;
- engage with and gain traction from a wide community of companies and universities.

<p><i>Fuel cells and hydrogen technologies</i></p>    <p>Funded by European Commission Contract No. 736648</p>	
<p style="text-align: center;">➤ Learn</p> <ul style="list-style-type: none"> ✓ Massive open online courses (MOOCs) <ul style="list-style-type: none"> ✓ Workshops ✓ Flying teachers ➤ Improve <ul style="list-style-type: none"> ✓ Advanced topics and problems ✓ Scientific database 	<p style="text-align: center;">➤ Test</p> <ul style="list-style-type: none"> ✓ E-Laboratory <p style="text-align: center;">➤ Share</p> <ul style="list-style-type: none"> ✓ Knowledge and experience among other members of FCH community





Scope of NET-Tools Workshop on educational material on hydrogen technologies (2nd Educational School)

The workshop is organized as a practical experience aiming for participants to explore the e-Platform through elaborative testing and analysis of the developed content as well as an opportunity to confirm cooperation for the further continuation of the e-Platform.

The Workshop will offer the opportunity for the participants to engage with the project to :

- confirm areas of interests for the stakeholder groups targeted (academics, industry, education etc.) concerning thematic areas and educational materials developed;
- initiate collaborations with these stakeholders and;
- obtain recommendations for further developments.

The 1st part of the event will consist of a general introduction to Net-Tools project and to the e-Learning platform, attendees will register in the platform whilst the 2nd part of the event will focus on practical demonstration of the e-Laboratory area and test of the platform to allow the participants to test the platform tools and functionalities. The second day will end with open dialogue sessions between delegates and speakers.

Participants to the workshop will :

- be presented with the latest developments of the Net-tools platform and especially the already developed E-Laboratory Toolboxes and E-Learning contents – to understand how the platform can support their teaching and training needs;
- be invited to make suggestions regarding additional areas to be covered by the Net-tools platform – so that the platform can support their teaching and training needs further;
- be invited to evaluate the potential for contributing with existing or planned educational materials for uploading onto the platform – to use the platform to reach out to new audiences and promote their expertise;
- be taught how to use every tools from the e-laboratory platform and resolve problems through these tools.

Yours sincerely,

Prof h.c. Olaf Jedicke, Karlsruhe Institute of Technology Germany
Coordinator Net-Tools project



2nd Educational School Overview

Days	Tuesday 28 th April	Wednesday 29 th April
Morning Session	Registration General Introduction e-Learning	e-Laboratory
Midday	Lunch	Lunch
Afternoon Session	e-Learning e-Laboratory	e-Laboratory Wrapping-Up
Evening	Network Dinner	End of the Event

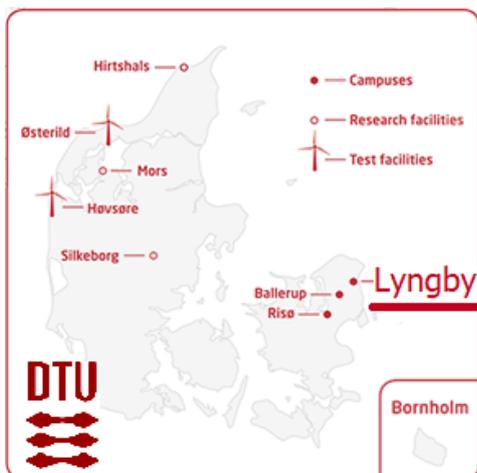
Additional information can be found here: <https://www.h2fc-net.eu/>
 Registration here: <https://www.conferencemanager.dk/net-toolscp2020>



Location
 DTU Lyngby Campus
 Building 402
 Copenhagen – Denmark
<https://www.dtu.dk/english>

For almost two centuries DTU, Technical University of Denmark, has been dedicated to fulfilling the vision of H.C. Ørsted—the father of electromagnetism—who founded the university in 1829 to develop and create value using the natural sciences and the technical sciences to benefit society. DTU’s main campus is located north of Copenhagen near the town of Lyngby.

General Contacts : Olaf Jedicke - Karlsruher Institute of Technology (KIT) - olaf.jedicke@kit.edu



Logistical aspects

Airport: The nearest airport is Copenhagen Airport (approx. 21 km from the venue)

To the venue

By taxi - From the airport it will cost you about DKK 600 (EUR 80) and from downtown Copenhagen about DKK 350 (EUR 47) – **Duration ~ 35 to 45 min.**

By public transport: Metro – Train and Bus:



– Duration ~ 60 min.

Accommodation – Closest Hotels : [Scandic Eremitage Hotel](#), [Hotel Postgarden](#)

Location

