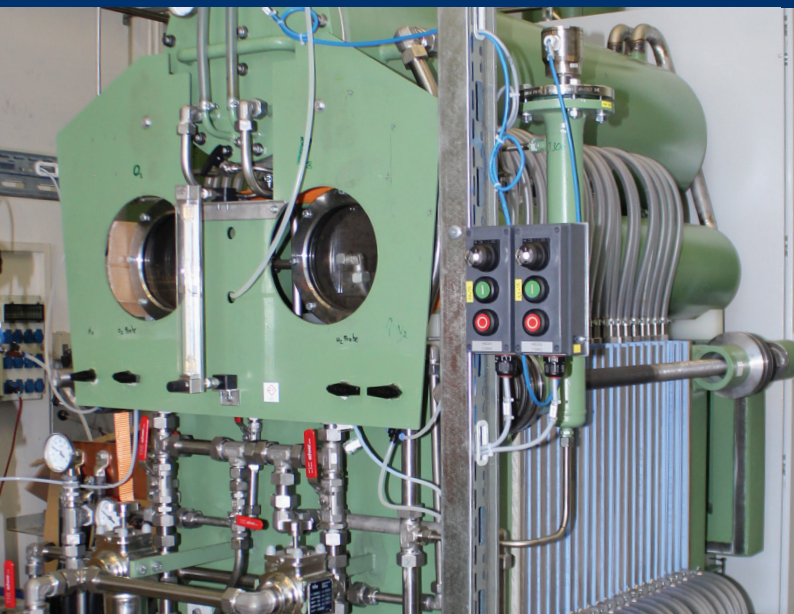


ADVANCED ALKALINE ELECTROLYSIS

INDUSTRY WORKSHOP
OCTOBER 16th, 2019





PROGRAM

09:15 Welcome coffee, Registration

10:00 Welcome address

10:10 **Role of electrolysis in a hydrogen energy cycle, EU strategic view on electrolyser industry**

Nikolaos Lymeropoulos, FCH JU

10:25 Impulse **Advanced alkaline electrolysis**

10:30 **Alkaline electrolysis development in China**

Zhu Yanbin, PERIC

10:45 **Comparing alkaline and chlor-alkali electrolysis**

Thijs de Groot, Nouryon

11:00 **Large scale alkaline electrolysis**

Lukas Lücke, thyssenkrupp

11:15 **Present and future markets for AWE**

Fabian Fremdling, AIRBUS

11:30 Coffee break

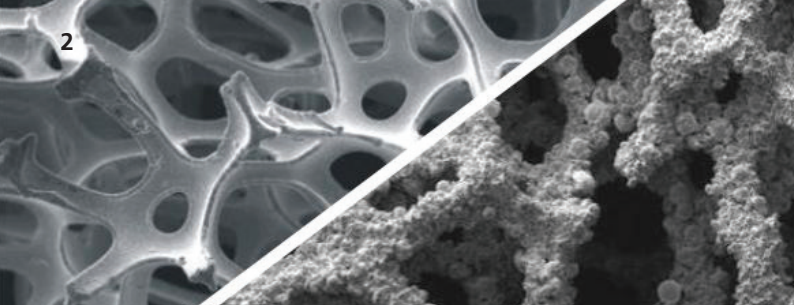
12:00 Impulse **AEL3D project**

12:05 **Next generation of electrodes for the alkaline water electrolysis** Christian Bernäcker, Fraunhofer IFAM

12:20 **Alkaline electrolysis at elevated pressure and temperatures above 100 °C - advantages and challenges** Ulrich Fischer, BTU Cottbus

12:35 **Comparison of 2-phase flow CFD- and experimental data within porous electrodes in alkaline water electrolysis** Michael Liebert, ZSW Ulm

12:50 Lunch break



Front, 1 - Alkaline electrolyzer, 2 - Foam substrate and catalyst coated foam substrate, 3- Synchrotron X-ray tomography image of an electrode

- 13:50 Impulse **Supply industry for alkaline electrolysis**
- 13:55 **Introduction and future perspective to diaphragm technology for classical and advanced alkaline water electrolysis** Wim Doyen, MMM Innovations BVBA
- 14:10 **ZIRFON: High performance membrane for the advancement of hydrogen applications**
Nick Valckx, Agfa Geveart
- 14:25 **Metallic fiber structures as electrode material for alkaline water electrolysis** Martin Buchmann, BinNova
- 14:40 **Using high-volume production components for AEL systems** Ingmar Hartung, IAV GmbH
- 14:55 Coffee break**
- 15:25 Impulse **Applications for alkaline electrolysis**
- 15:30 **Sector coupling – considering the system**
Jan Felinks, Amprion
- 15:45 **Power-to-X Technologies**
Andreas Heinrich, MAN Energy Solutions SE
- 16:00 **Podium discussion with all speakers of the day**
- 16:45 **Closing and farewell**
- 16:50 Networking coffee and lab tour (alkaline water electrolyser and electrode production)**
- 20:00 Networking event in the historic city of Dresden**

With my registration I give my consent to photos being taken during the workshop as well as for the electronic storage of my data (incl. the use of my address for further invitations and information).