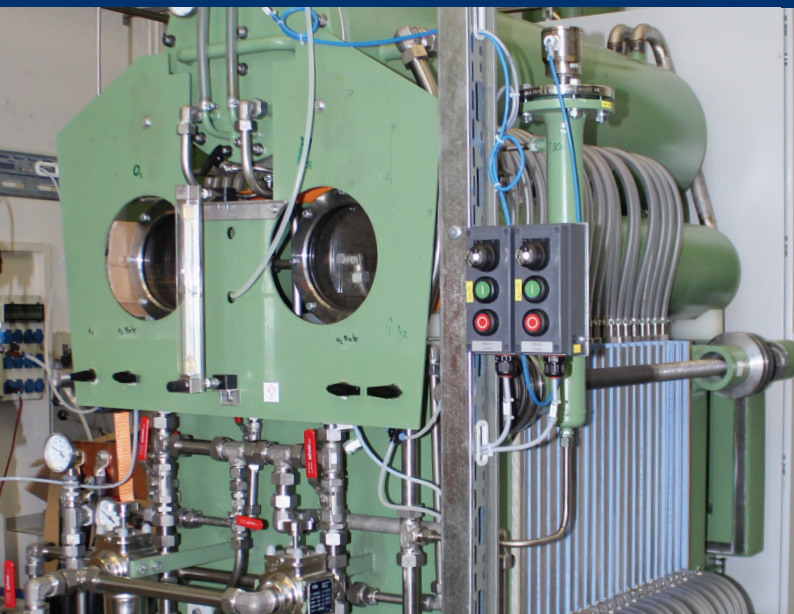


# ADVANCED ALKALINE ELECTROLYSIS

INDUSTRY WORKSHOP  
OCTOBER 16<sup>th</sup>, 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**

Chen Tianshan, 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

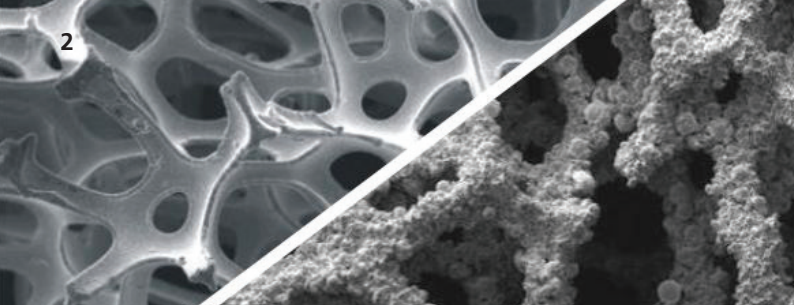
**12:00** Impulse **AEL3D project**

**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

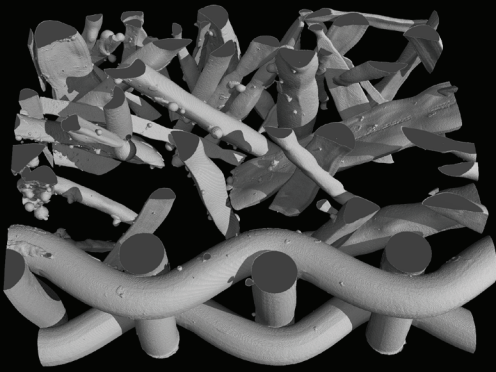


*Front, 1 - Alkaline electrolyzer, 2 - Foam substrate and catalyst coated foam substrate, 3- Synchrotron X-ray tomography image of an electrode*

- 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 Teuwsen, 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**

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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).



**Registration  
for the Industry Workshop  
Advanced Alkaline Electrolysis**

**16<sup>th</sup> October 2019**

**at the Fraunhofer Institute Center Dresden  
Winterbergstrasse 28, 01277 Dresden, Germany**

Name, First Name.....

Company / Department.....

Address.....

Phone.....

E-Mail.....

I will participate in the evening networking event.

Please register for the workshop until **September 30<sup>th</sup>, 2019**.

The workshop is for free; travel expenses and networking event are self-borne.

Please send your registration to:

Fax: +49 351 2537 399

E-mail: [info@ifam-dd.fraunhofer.de](mailto:info@ifam-dd.fraunhofer.de)

By post: Fraunhofer IFAM Dresden

Winterbergstraße 28 | 01277 Dresden | Germany

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