

A vertical strip on the left side of the slide shows a microscopic image of a material surface. The image displays a complex, porous structure with a color gradient from dark blue to bright yellow, indicating different chemical or physical states across the surface.

# 40th Electrochemistry Symposium

*“Critical Raw Materials for the  
Energy Transition”*

**KuK Culture and Congress House Aarau  
Wednesday, April 17, 2024 / 9:00 am - 5:00 pm**

Additional information regarding the symposium's program, registration and accommodation can be found on the [SES 2024 website](#).

# Speakers



**DR.-ING. FUNDA ARSLAN**

*Application Development Engineer*

**"The Critical Role of Fluoropolymers and Sustainability in the Emerging Hydrogen Economy"**



**PROF. XILE HU**

*Professor of chemistry at EPFL*

**"Anion exchange membrane-based energy devices using non-precious catalysts"**



**DR. BRYAN PIVOVAR**

*Senior Research Fellow*

**"Challenges in Getting Low Temperature Electrolysis to Scale"**



**CHRISTIAN GEBAUER, PH.D.**

*Head of Innovation Hydrogen Systems*

**"PEM Electrolysis and its dependency on iridium – Catalyst solutions for low iridium application"**



**PROF. DR. THOMAS J. SCHMIDT**

*Head of Energy and Environment Division*

**"From Materials to Systems in Fuel Cells and Electrolysis Research"**



**DR. HILMI BUQA**

*Vice President R&D Cells*

**"Leclanché: a global leader in the large-scale production of water-based binder electrodes for Li-ion cells"**



**ALEXANDRE PONROUCH, PH.D.**

*Researcher*

**"Cation solvation structure and interphase in Ca and Mg metal anode batteries"**



# Program

09:00	Welcome Coffee	Topics
09:30	Denise Verhoeven, Laboratory Head Laboratory for Electrochemistry, PSI & Prof. Dr. T.J. Schmidt, Division Head Energy & Environment, PSI, Villigen, Switzerland	Welcome & Introduction
09:40	Prof. Dr. Thomas J. Schmidt Head of Energy and Environment Division, Paul Scherrer Institute, Switzerland	"From Materials to Systems in Fuel Cells and Electrolysis Research"
10:20	Dr. Bryan Pivovar Senior Research Fellow I-Materials Science, NREL, Golden, CO, USA	"Challenges in Getting Low Temperature Electrolysis to Scale"
11:00	Coffee Break	
11:30	Prof. Dr. Xile Hu, Professor of chemistry, EPFL/Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland	"Anion exchange membrane-based energy devices using non-precious catalysts"
12:10	Buffet-Lunch, Poster Session and Networking	

13:30	Dr.-Ing. Funda Arslan Chemours Belgium BV, Mechelen, Belgium	“The Critical Role of Fluoropolymers and Sustainability in the Emerging Hydrogen Economy”
14:10	Dr. Alexandre Ponrouch Ph.D., Researcher, ICMAB, Barcelona, Spain	“Cation solvation structure and interphase in Ca and Mg metal anode batteries”
14:50	Coffee Break	
15:10	Dr. Christian Gebauer Ph.D., Head of Innovation Hydrogen Systems, Heraeus, Hanau, Germany	“PEM Electrolysis and its dependency on iridium – Catalyst solutions for low iridium application”
15:50	Dr. Laura Höltschi, representing Dr. Hilmi Buqa Project Manager R&D Cells, Leclanché SA, Yverdon-les-Bains, Switzerland	“Leclanché: a global leader in the large-scale production of waterbased binder electrodes for Li-ion cells”
16:30	Denise Verhoeven, Laboratory Head Laboratory for Electrochemistry, PSI	Closing remarks
16:40	End of Symposium Day / Farewell Apéro	