

e-Refinery Symposium on Mar. 14th and 15th

Date and Time: All-day on March 14th and 15th



Location: Theatre de Veste, Delft, Netherlands

Who: Attending is a diverse collection of representatives from industry with a vested interest in electrochemical technologies as a future energy infrastructure. In addition to industry, the e-Refinery Institute as whole will be present (~150 participants), as well as external academic partners (~50 participants).

Purpose: To gather in person to discuss our common interests in scalable electrochemical technologies, with a centered discussion on the interplay between the e-Refinery's infrastructures and industry's needs. An important outcome is to come to an understanding of key challenges, opportunities and needs for the coming five years, and how current governmental funding strategies can support these conclusions.

Day 1 Preliminary Agenda:

Morning Program:

9:00	10:00	Arrival and Coffee
10:00	10:10	Symposium opening
10:10	10:30	Introduction by the e-Refinery Institute (Bernard Dam) <ul style="list-style-type: none">- Who we are, what we're doing, existing capabilities and forward-looking direction- Walk through of TU Delft's electrochemical activities and facilities
10:30	10:55	Present Electrochemical Reactions of interest (Tom Burdyny)
10:55	11:20	Future Electrochemical Reactions of interest (Ruud Kortlever)
11:20	11:45	Challenges and Opportunities for Indirect Electrochemical Routes (Wiebren de Jong)
11:45	12:00	Poster Session Teaser + Research Showcase
12:00	13:30	Lunch and Poster Session

Afternoon Program:

13:30	14:00	Material and Catalyst Opportunities for Electrochemical Reactions (Atsushi Urakawa)
14:00	14:25	Electrochemical Engineering as a Core Skillset of the Energy Transition (Tom Burdyny)
14:25	14:50	AI for System Integration of Electrochemical Devices (Jochen Cremer)
14:50	15:35	Break and Networking
15:35	16:05	Upstream and Downstream Integration and Considerations (David Vermaas)
16:05	16:35	Moderated Industry Panel Discussion
16:35	16:45	Day 1 Closing Session. Discuss evening program and Day 2
16:45	18:00	Networking and Drinks at Venue
18:30	20:00	Dinner provided at Theatre de Veste

Day 2 Preliminary Agenda:

Day 2 Overview and description: Substantial technological advancements and economic considerations are needed outside of the electrochemical conversion units themselves. Secondary equipment, upstream and downstream constraints, and broad integration play a large role in the viability of various electrochemical routes, and this demand attention. On Day 2 we explore the challenges and opportunities Beyond-the-Cell from an industry perspective.

Morning Program:

8:00	9:00	Arrival and Coffee
9:00	9:25	Overview of TNO's activities in the Sustainable Chemistry Industry (Peter Wolfs)
9:25	9:50	Focus Topic 1: Electrolyzer Thermal Implications and Modelling (Jurriaan Peeters)
9:50	10:15	Focus Topic 2: Product Separation (Monique van der Veen)
10:15	10:45	Coffee Break
10:45	11:10	Focus Topic 3: Design and Control of Intermittent Electrolyzer Operation (Ruud van Ommen)
11:10	11:35	Focus Topic 4: Electrolysis Integration, Processes and Techno-economics (Mar Pérez-Fortes)
11:35	11:50	Focus Topic 5: Energy Transition in Aviation (Arvind Gangoli Rao)
11:50	12:00	Official program closing final comments
12:00	13:00	Lunch

Afternoon Program:

13:00	17:00	Guided Lab Tours for non-project attendees	Subset of attendees
13:00	17:00	Internal project update meetings (TOeLS and SELECTCO2)	Subset of attendees