

The AIChE Netherlands / Belgium Section is pleased
to invite you to attend the Lecture Dinner Meeting

**TECHNOLOGY INTEGRATION:
CO₂ CAPTURE AND CONVERSION -
A COMPARISON BETWEEN AN ELECTROCHEMICAL
AND A THERMOCATALYTIC ROUTE**

by Anca Anastasopol and Maartje Feenstra - TNO

Tuesday, September 22, 2020 – Golden Tulip Zoetermeer

Program

17.30 – 18.00	Registration
18.00 – 19.00	Lecture
19.00	Dinner

Covid – 19

In connection with Covid-19 and trying to offer you a safe meeting, the Lecture Meeting will be adjusted. We have a larger room at our disposal so that all the participants can participate at 1.5 meters distance from each other. Dinner will also take place in the same room and drinks before the meeting are canceled. With this set up, a maximum of 30 people can participate the Lecture Dinner Meeting.

Summary

The challenges of utilizing CO₂ and the intermittency of the renewable electricity sources can be addressed in various ways. Within the TNO Energy transition, novel processes are being developed as solutions to these challenges. Anca Anastasopol and Maartje Feenstra put forward the proposition that the early integration of technologies can lead to more economically and technically viable solutions.

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In their presentation, two concrete cases of integration of the CO₂ capture and conversion to formic acid are discussed through the prism of a coherent system development. The electrolysis of CO₂ will be evaluated next to the thermocatalytic conversion to obtain formic acid.

Professional background of the Speakers

Anca Anastasopol has graduated with a master in Nanoscience from the Delft University of Technology. Her research project was on active materials for micro Li-ion batteries. She continued with a PhD in hydrogen storage materials with a graduation thesis entitled “Kinetic and Thermodynamic aspects of Mg and Mg-Ti hydride materials”. In 2015, she joined TNO, a large Dutch research institute with a broad research portfolio. At TNO she continued her research in different energy storage technologies ranging from heat storage in thermochemical materials to electric batteries. Within the Voltachem program, she is the technical lead on the CO₂ electroreduction activities, which fall under the Power to Chemicals research line.

Maartje Feenstra holds a bachelor’s degree in Chemistry (cum laude) from University of Utrecht and a master’s degree in Chemical Engineering from Delft University of Technology. In 2016, she joined the Gas Treatment group of TNO, where she focuses on CO₂ capture, CO₂ utilization technologies and synthetic fuels. At the moment she is combining her work as technical lead in the synthetic fuel topic in the Sustainable Process and Energy Systems department at TNO with a PhD project named “Strategies towards integrated systems for renewable fuel production” at the TU Delft.

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Registration Form

Yes, I would like to attend the Lecture Dinner Meeting with the subject: 'Technology Integration: Co₂ capture and conversion - a comparison between an electrochemical and a thermocatalytic route' on Tuesday, September 22nd, 2020.

Company: _____

Name: _____

Job Title: _____

Email: _____

Diet: _____

Please send the invoice to:

Company: _____

Attn.: _____

Address: _____

City: _____

Reference: _____

Fees

Participant: 80 euro

Sponsor: 50 euro

Registration by mail: aiche@kborganisatietalent.nl

A week before the start of the Lecture Dinner Meeting you will receive a confirmation with practical information and your invoice. Free cancellation is possible, when in writing, 48 hours prior to the event.

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