



MoZEES Battery Days 2021 – Day 2

2nd Meeting MoZEES Innovation Forum

Date/Time: Thursday **22 April 2021**, 09h00 – 14h00 CET
Webinar (Teams Meeting)

Overall Program for Day 2

- 09:00-09:15 Start of Meeting: Registration*
09:15-09:30 Opening of Meeting: Welcome
09:30-10:30 **Session 1 – Battery Material Production**
10:30-10:45 Coffee Break
10:45-12:00 **Session 2 – Large-Scale Li-ion Cell Production**
12:00-13:00 Lunch Break
13:00-14:00 **Session 3 – Panel Discussion / Questions & Answers**
14:00 End of Meeting

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Registration (09:00-09:15)

- Log-in into Teams Meeting

Welcome (09:15-09:30)

- Introduction – **Øystein Ulleberg**, MoZEES Director, IFE

Session 1 – Battery Material Production (09:30-10:30)

Moderator: Kenneth Friestad, Elkem

- *Supporting a greener battery production through localized sustainable supply of anode materials*, **Stian Madshus, Elkem**
- *Industrialization of 'Silicon Nano Robust'*, **Martin Kirkengen, Cenate**
- *High quality advanced ceramic oxides as battery materials*, **Anne Dyrli, Cerpotech**
- *Accelerating the green energy transition*, **Henning Kaland, Morrow**

Coffee Break (10:30-10:45)

Session 2 – Large-Scale Li-ion Cell Production (10:45-12:00)

Moderator: Øystein Ulleberg, IFE

- *Contributing to a European sustainable battery value chain*, **Rune Bruøygaard, Hydro**
- *Soft advanced and beyond Lithium-ion technologies*, **Cécile Tessier, SAFT**
- *New sustainable power batteries enabling accelerated transition to low carbon industry and heavy transport*, **Svein Kvernstuen, Beyonder**
- *Sustainable and cost-effective battery production in Norway (TBC)*, **Gery Bonduelle, Freyr**

Lunch (12:00 – 13:00)

Session 3 – Questions, Answers & Discussion (13:00 – 14:00)

Moderators: Kenneth Friestad and Øystein Ulleberg

Panel: Presenters from Session 1 and 2

- Questions & Answers – Q&A between Participants and Panelists
- Panel Discussion – The way forward
- Final Remarks – Moderators

End of Meeting (14:00)

Overview of Presenters & Presentations

(in the order they appear in the program)

Rune Bruøygaard, Hydro



Rune Bruøygaard is Director of Business Development in Hydro's newly established business unit on batteries, Hydro Batteries. Rune holds a MSc degree in Industrial Economics and Technology management from NTNU in Trondheim, Norway and an Executive master in Energy Management from BI, Oslo and ESC-EAP, Paris.

Hydro is actively seeking new opportunities related to energy transition and energy storage. Rune, who has played a key role in this work, will provide us with some insight on how Hydro intend to contribute to the establishment of new sustainable battery value chains.

Martin Kirkengen, Cenate



Martin Kirkengen is Chief Technology Officer in Cenate. He holds a PhD in physics from UiO and has worked with Si-related research and technology development for more than 12 years, first at REC on solar cells, then at IFE on Li-ion batteries, before taking on the job in Cenate.

Cenate is developing and producing silicon-containing anode materials to be directly used in today's Li-ion batteries. The company is collaborating with some of the world's leading battery producers. Martin will present how Cenate plan to industrialize their nano Si-materials.

Anne Dalager Dyrli, Cerpotech



Anne Dalager Dyrli is the CEO of Ceramic Powder Technology AS (Cerpotech) since 2017. Anne holds a MSc in Chemistry, majoring in polymer chemistry, and a Master of Management, Strategy and Business Development, from NTNU. She has a research background on polymer materials from SINTEF and long experience on technology and business development from her own start-up company RESMAN AS.

Cerpotech is a specialist company on spray pyrolysis, a soft chemistry technique that can be used to produce high quality, multi-component ceramic oxide powders. Anne will show how Cerpotech can produce high quality advanced ceramic oxides as battery materials.

Henning Kaland, Morrow



Henning Kaland has four years hands-on experience on battery material research, including both conventional Li-ion batteries and next generation battery technologies. He has a Master's degree in nanotechnology and a PhD on next generation cathode materials, both from NTNU, Norway.

In Morrow Batteries, he is involved in a range of battery technology related aspects, from technology strategy and planning to R&D. Henning will present the latest status of Morrow Batteries' road towards making highly sustainable and cost-competitive batteries.

Stian Madshus, Elkem



Stian Madshus is the General Manager Europe of Elkem's advanced battery materials business unit. Stian has a PhD in material science from NTNU, where he specialized on carbon materials technology.

The graphite used in modern high-performance lithium-ion battery cells is an advanced engineered material that has a major impact on battery performance. Stian will introduce us to Elkem's activities within production of sustainable anode materials.

Cécile Tessier, SAFT



Cécile Tessier has a background in chemistry, with a diploma of Engineer in Chemistry (Strasbourg) and a PhD in solid state chemistry from University of Bordeaux. Cécile is currently manager of the Li-ion group in Saft Research department.

SAFT is heavily involved in the electric mobility revolution. Cécile will provide an overview of SAFT's advanced Li-ion battery technology and their road map towards future improved battery technologies.

Svein Kvernstuen, Beyonder



Svein Kvernstuen is the CEO and Founder of Beyonder. He was raised in an entrepreneur family and contributed to build up and establish a significant global business Reslink, an international BDM at Schlumberger. Svein is the owner and angel investor of several other companies.

Beyonder has now started Norwegian first battery cell production. Svein will present Beyonder's game-changing battery technology, which can be tailor-made for industrial needs and provide rapid power response at low operating costs.

Gery Bonduelle (TBC), FREYR



Gery Bonduelle is Executive Vice President for Sales in Freyr. Gery has 25 years of experience within engineering, product development, and operations in EnerSys, a global leader in stored energy solutions for industrial applications.

FREYR is developing environmentally friendly lithium-ion based battery cell facilities in Mo i Rana, Northern Norway. Gery will speak about how FREYS plans to supply high energy density and cost competitive clean batteries to growing markets globally using best available technology.

Registration

The **deadline to register** for the **2nd Meeting** of the **MoZEES Innovation Forum** on 22 April **Tuesday 20 April 2021**

This is an **open MoZEES Meeting** and free of charge, but requires that you register here:

[Link to Registration Form](#)

Questions regarding registration or other practical matters can be directed to Julia Wind:

julia.wind@ife.no

Questions regarding the program can be directed to Øystein Ulleberg:

oystein.ulleberg@ife.no.

List of Participants

The list of Participants will be made available in the final version of the program.

