



SUSTAINABLE  
**BATTERY CELL**  
PRODUCTION

**SUMAS**  
SEMINAR

# UNLOCK THE **POWER** OF **SUSTAINABLE** PRODUCTION PROCESSES.

08 SEPT. 2022  
SCHMICKSTR. 18  
60314 FRANKFURT



## PROGRAM 08 SEPTEMBER 2022

10:00 – 10:05

### Introduction

Owen Bates, Communications Director  
SUMAS GmbH

10:05 – 10:20

### Importance of Sustainability

Miriam Dahlke, MdL  
Green Party, "Bündnis 90/Die Grünen"

10:20 – 11:00

### Bulk Material Handling in Battery Production

Michael Wetzel

AZO GmbH + Co. KH

Given the drastically rising demand for lithium-ion batteries, many gigafactories are presently planned and built worldwide. The necessary raw materials for cell production must be handled in larger amounts considering operator and process protection. AZO, a specialist in bulk material handling, has the suitable efficient solutions.

11:00 – 11:40

### Dry Grinding Technologies for Battery Materials

Zhenyu Duan

NETZSCH Trockenmahltechnik GmbH

Dry fine grinding and classifying are often essential processing steps for battery materials. However, material producers face common difficulties such as low efficiency, over-grinding, metal contamination, and humidity increase. NETZSCH will present their mature dry grinding technologies, which ensure the quality and efficiency of battery materials production.

11:40 – 12:20

### Wet Grinding Technologies for Battery Materials

Patrick Schoerwerth

NETZSCH Feinmahltechnik GmbH

The design of NETZSCH mills and mixers allows for energy to enter the product with much greater efficiency – saving up to 30% in energy costs compared to the competition. NETZSCH will cover this and other sustainable benefits that wet grinding technologies can offer.

12:30 – 13:30

### Lunch

13:30 – 14:10

### Innovative Pumps in Battery Production

Erwin Weber

NETZSCH Pumpen & Systeme GmbH

NETZSCH pumps can perfectly handle complex fluids used in battery production, such as anode and cathode slurries, as well as any other possible additive. We will present our sustainable solution to reduce total cost of ownership for the operator, including energy costs, downtime, part consumption, and carbon footprint.

14:10 – 14:50

### Rheological Properties of Battery Slurries

Torsten Remmler

NETZSCH Gerätebau GmbH

With rotational and capillary rheometry, it is possible to measure the flow properties of battery slurries at processing conditions as well as their viscoelasticity. NETZSCH will discuss the impacts of these properties on optimal storage stability and leveling behaviour after coating.

14:50 – 15:30

### Expert Coating and Drying in Battery Production

Geng Jin

KATOP

Coating process belongs to the core production step in electrode finishing. However, the limited drying speed and the high energy consumption are the main bottlenecks of the process. KATOP will introduce state-of-the-art drying technology as well as several innovative coating/drying processes to reduce footprint and improve energy efficiency.

15:30 – 16:10

### The Sustainable Benefits of NMP Recovery

Stefano Capelli

Brofind SpA

NMP reclamation from cathode coating processes for lithium-ion battery production is a sustainable solution to reducing environmental impact of coating processes. Brofind will discuss the interesting economic benefits of NMP recovery systems.

16:10 – 19:00

### SUMAS Lounge

# SUMAS

A technical drawing of a mechanical part, possibly a bearing or a pulley, is shown in the background. It features concentric circles, radial lines, and various geometric shapes, all rendered in white lines on a blue background.

## SUSTAINABLE MACHINERY SOLUTIONS

**High-capacity battery cells are the future of the worldwide energy landscape. But what is the future of battery cell production? In this fast-growing and competitive market, how can producers optimize product while reducing costs?**

**The SUMAS Seminar on Sustainable Battery Cell Production** brings together top decision makers with key technological partners to unlock the power of optimization. See for yourself how sustainable, efficient, and future-proof solutions will transform production processes across the battery cell industry.

**SUMAS GmbH (Sustainable Machinery Solutions)** helps make production processes as efficient and sustainable as possible – saving resources and maximizing technological capabilities. We connect industries, manufacturers, and technology and service providers throughout Europe and Latin America. Each of our solutions is integrated into a sustainable network of partners and services, ranging across sectors such as packaging, colors and inks, e-mobility, and oil recycling. Our wide network and cross-industry know-how enables our clients to exploit unseen opportunities and discover new potential.

## SUMAS GmbH

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