

## NMWP-Topic evenings

The NMWP-Topic evenings provide companies and universities with information about current developments on a specific topic. At the same time, the opportunity to visit facilities, the exchange of ideas with experts and broad cross-linking across topics is offered. The topic evenings are organised by the NMWP.NRW cluster in cooperation with a local partner and the NMWP e.V..

## NanoMicroMaterialsPhotonics.NRW cluster

The NMWP.NRW cluster (german: Cluster NanoMikroWerkstoffePhotonik.NRW) is a recognised partner of industry, science and the public sector for innovation-promoting activities in the field of key enabling technologies (KET), primarily nanotechnology, advanced materials, microsystems technology and photonics. The aim of the cluster is to make North Rhine-Westphalia a highly competitive and dynamic industrial and research location in the field of four cross-sectional technologies – thanks to its well established network.

[nmwp.nrw.de](http://nmwp.nrw.de)

## Association NanoMicroMaterialsPhotonics

The association NMWP e.V. (german: NanoMikroWerkstoffePhotonik e.V.) forms a central platform in North Rhine-Westphalia for decision makers and stakeholders from science and industry to identify social challenges together with politics and the public and to respond to them with innovative solutions and industrial applications through future developments in the four key enabling technologies.

[verein.nmwp.de](http://verein.nmwp.de)

Media Partners



## Information on the event

To find further information on the event and the registration online, use the following URL:  
[www.nmwp.nrw.de/eppn2019](http://www.nmwp.nrw.de/eppn2019)

**Date:** 21 - 22 May 2019

**Venue:** Coatema Coating Machinery GmbH  
Roseller Straße 4  
41539 Dormagen  
Germany

## Contact:

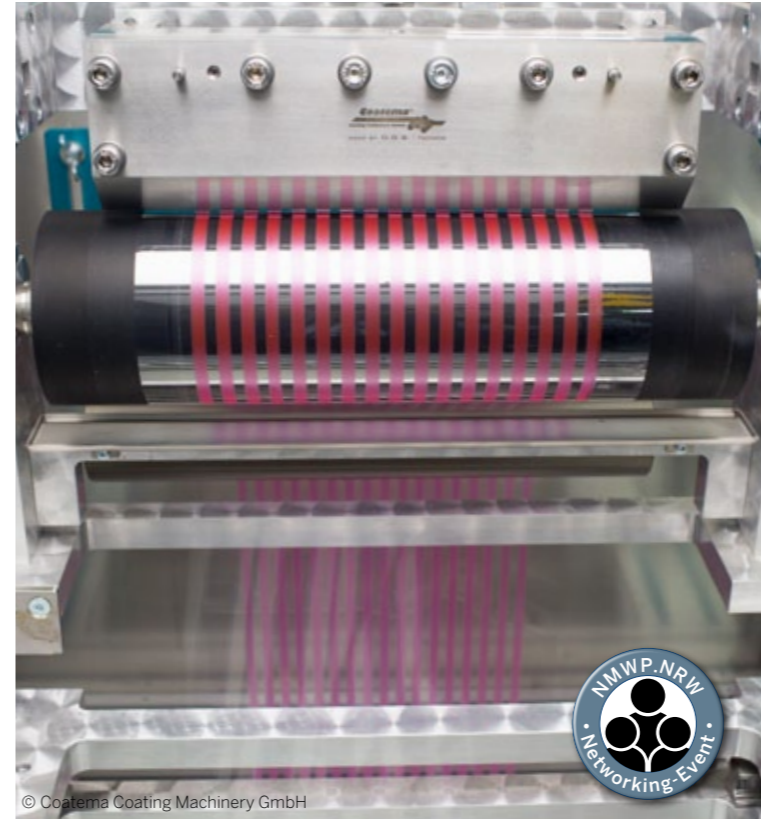
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Participation is free of charge!  
Registration until 6 May 2019 at  
[www.nmwp.nrw.de/eppn2019](http://www.nmwp.nrw.de/eppn2019)

The topic evening is organized by



in cooperation with



## Pilot production lines for an innovative KET-based industry

NMWP-Topic evening, EPPN Workshop and live demonstrations

21 - 22 May 2019

Coatema Coating Machinery GmbH,  
Dormagen, Germany

**Exzellenz NRW**  
Cluster Nordrhein-Westfalen



## Pilot production lines for an innovative KET-based industry:

Successful pilot production, from lab scale to small batch production, is an important success factor for the innovation potential and management of every manufacturing company. Only the rapid overcoming of problems in production through "learning by doing", as possible during pilot series production, leads to a successful series run and is very important for the time of introduction, market acceptance and economic success of an innovative product. Therefore the regional availability of pilot production lines is also of great relevance in order to make the pilot series a quick success.

Thus it is of great importance for the North Rhine-Westphalian economy not only to be aware of internal but also of the broad field of external pilot production lines and their possibilities - in NRW and in nearby Europe - and thus exploit the success factor of pilot production. Therefore, the topic evening takes place at Coatema Coating Machinery GmbH which operates successfully its open R&D Center for coating, printing and laminating on a commercial basis since several decades. As illustrated with its modular Click&Coat®-Pilot line below, partners from industry and academia have the opportunity to test and evaluate their novel materials, processes and products on existing pilot lines and production equipment at Coatema to gain first production experience, samples for evaluation or test small pilot series production. This enables an early market entry and secures economic success.



## Programme

### First day: May 21, 2019: EPPN Workshop & NMWP-Topic evening

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#### 12.00 am EPPN Workshop

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4.00 pm Registration NMWP-Topic evening

**Laboratory tours** – Visit to the Coatema R&D Centre & interactive poster presentation

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#### 5.00 pm NMWP-Topic evening

##### Welcome addresses

Thomas Kolbusch,  
Vice President of Coatema Coating Machinery GmbH

Dr.-Ing. Harald Cremer,  
Cluster Manager NMWP.NRW

##### Greetings

Karl-Uwe Bütof,  
Ministry for Economic Affairs, Innovation, Digitalization and Energy of the State of North Rhine-Westphalia

EU representative,  
European Commission, DG Research and Innovation

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#### 5.30 pm Lectures

##### Pilots and Innovation Hub Landscapes: NRW and Europe

Andrea Reinhardt, Nanofutures

##### Modular Plants – Flexible production by innovative plant design

Malte Salge, INVITE GmbH

##### Production of tailored nanoparticles on the pilot plant scale at IUTA e.V.

Dr.-Ing. Sophie Marie Schnurre,  
IUTA e.V.

##### Additive Manufacturing

Benjamin Denayer, Sirris

##### CIDETEC Pilots: NanoPilot and GMP Pilot Plant

Dr. Jaime Ochoa, CIDETEC

##### The need for battery cell production – Opportunities for NRW

Dr. Heiner Hans Heimes, PEM RWTH Aachen

##### Fuel-Cell-Production.NRW - Bridging the gap between lab prototypes and fuel cell mass production

Dr. Christoph Baum, Fraunhofer IPT

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7.05 pm Final discussion & questions

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7.15 pm Networking and snack & further visits of interactive poster presentation

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8.30 pm End of first day

## EPPN

EPPN is the European Network for Pilot Production Facilities and Innovation Hubs. Pilot facilities respond rapidly to scaling-up needs which are essential for SMEs and startups. They are tools to train next generation, upgrade European industry to stay competitive, generate business and potentially help create new business, jobs and growth across Europe by offering a dedicated infrastructure and service ecosystem.

The upbeating EPPN Workshop is addressed at and gives the opportunity for exchange between pilot facilities. In a match-making poster session and several short talks, pilot facilities present themselves and their road to sustainability.

The participation in the EPPN workshop is not reserved for members of the EPPN but is open to everyone interested in the exchange between pilot facilities. The detailed program will be published on [www.eppnetwork.com/news](http://www.eppnetwork.com/news).

## Programme

### Second day: May 22, 2019: EPPN Workshop at Coatema R&D Centre

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9.00 am Welcome with Coffee & Cookies by EPPN / Coatema

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9.30 am Introduction to 5 Pilot lines Demonstration

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#### 10.00 am Coatema R&D Centre – From Lab2Fab

##### Easycoater - TRL 3/4: project SUPERSMART

(a) From materials to layers – Upscaling support

Prof. Aline Rougier, University Bordeaux  
(b) Test of first principles – Upscaling support

##### Smartcoater - TRL 4/7: projects PhotonFlex & Effilayers

(a) Laser scribing & R2R-process development on device

Dr. Arnold Gillner, Fraunhofer ILT  
(b) Advanced application: UV-Nanoimprint structuring

##### Deskcoater -TRL 4/7: project iCoat

Novel hardware for intermittent coating of OLED & OPV

Ike de Vries, HOLST Centre, Eindhoven

##### Basecoater: TRL4/7: project InTreS

(a) Horizontal coating one-sided  
Isabel. Balz, ISF RWTH Aachen,  
Mario. Kehrer, PEM RWTH Aachen  
(b) Double-sided vertical coating

##### Click&Coat®-Pilot Line – TRL 5/7: projects EELICON & FLEX-G

(a) Electrochromic devices by R2R Pilot Line  
Dr. John Fahlteich, Fraunhofer FEP,  
Dr. Marco Schott, Fraunhofer ISC  
(b) Fluorescent coating & industrial drying

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Lunch

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2.00 pm Feedback

1. Q&A
2. EPPN
3. AOB
4. Next steps

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3.30 pm End of EPPN Workshop

## Coatema Coating Machinery GmbH

Coatema Coating Machinery GmbH offers worldwide a full range of equipment for coating, printing and laminating based on Roll-to-Roll and Sheet-to-Sheet applications. With more than 40 years of experience in the textile, foil and paper markets Coatema offers lab, pilot and production lines for these sectors. Coatema has been the market leader for 15 years in the pilot line sector with innovative technologies for batteries, fuel cells and printed electronics. A focus on high tech markets, world class service support and one of the most versatile R&D center in the world for coating, printing and laminating enables Coatema to offer complete laboratory-to-fabrication (Lab-to-Fab) technologies. In addition to the established sectors Coatema has been an active partner for more than a decade in German and European research projects and organizes an annually international coating symposium enabling networking between industry, Universities and Research Organizations.

Since August 2018 Coatema is part of the Hamburg-based Altonaer-Technologie-Holding GmbH (ATH), visit [www.coatema.de](http://www.coatema.de) for more information.