

 CONFERENCE PROGRAM

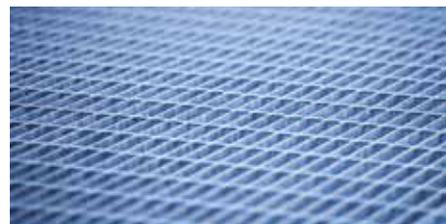
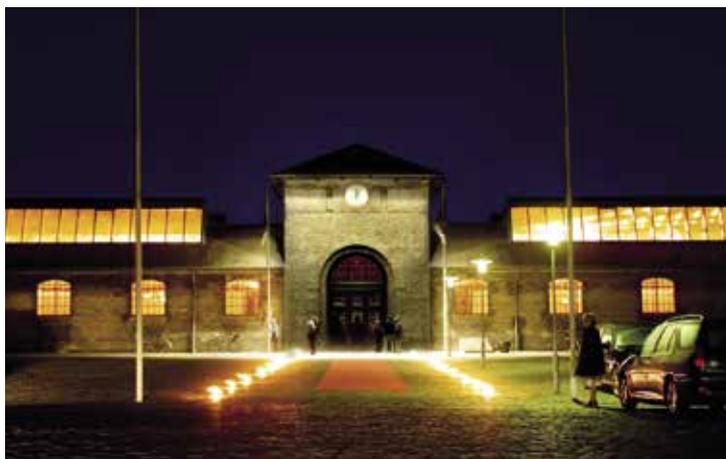
SCANDINAVIAN **COATING** 2019

MARCH 20-21, 2019 • ØKSNEHALLEN, COPENHAGEN



The surface treatment industry is entering Industry 4.0

After the first three industrial revolutions, the steam engine, the electricity and the electronics we are on the threshold of the fourth. The term Industry 4.0 was coined by the German government and the direction is against the smart factory, where everything in production is connected. At the conference you can hear everything from already realized projects to ongoing research projects. In addition, there are a number of general lectures in the surface treatment field. The conference is free and requires no notification!



SCANDINAVIAN COATING IS PRESENTED BY:

MAB

SPF
Svensk Pulverfackteknisk Förening

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PARTNER:

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CONFERENCE PROGRAM • WEDNESDAY 20 MARCH

10:00

Opening speech

Kinga Z Christensen, Head of Development & Productivity, Dansk Industri

10:15

Life in a digital age – Industry 4.0 at eye level

Mark Fisker, Chefkonsulent, Industrisamarbejdet en del af DI

In this post puts Mark Fisker focus on past actions and their impact on future opportunities. How do we ensure that industry challenges such as the development of knowledge and training of labor are ensured? And pave the way for future production and development?

10:45

How Husqvarna's vision in computer-driven production (Industry 4.0) created the conditions for a world-class automated surface treatment

Björn Landén, Husqvarna, Raymond Meyer, Meyer&Hjort, Sebastian Fägerstrand, Miba & Robert Nyberg, Unibap



Follow the journey from vision to implemented solution for world-class automated surface treatment. A change

project that included an effort to improve the working environment, increase productivity and product quality through new production plans. Investments in new technologies and solutions in robotics, automated quality assurance and application of artificial intelligence were some of the components of the solution that will be touched during the presentation.

11:30

Flexible surface treatment of wind turbine towers

Frederik Nielsen, Clemco Danmark

Clemco Denmark has developed a robotic system for shot blasting, metallization and paint application of large constructions. The system also makes it possible to collect data e.g. energy consumption, airflow and material consumption and provides unique knowledge of how the optimal settings are for each parameter.

12:15 Lunch break

13:15

Make Your Customers Happy with Real-Time Non-Contact Coating Thickness Measurement

Andor Bariska, CCO, Winterthur Instruments

We show you how to use real-time coating thickness measurement with the coatmaster. This improves production efficiency, saves resources and increases your profit. Document your production. Immediately detect and correct process deviations, run the coating process in tight tolerances and access the data anytime and anywhere.

13:35

Accelerated corrosion tests for marine environments – the need for a Swedish marine test centre

Johan B Lindén, Test Engineer - Corrosion, RISE Research Institutes of Sweden

Sustainable maritime and marine industries will be of high importance for a future circular economy. Blue industries, including energy extraction from waves/wind/microalgae and marine foods will require materials and coatings for such harsh environments. To meet the requirements there is a need for accelerated corrosion tests that have good correlation with real marine environments. A Swedish marine test centre would be key to meeting the increasing demand for relevant tests for performance of new marine coatings and products.

13:55

LaPlas – A research project investigating the possibility to use plasma treatment for replacing pre treatment steps before painting on plastic substrates

Åsa Lundevall, RISE, Research Institutes of Sweden

Painting on plastics and composites can be difficult due to soil on the surface or due to the low surface energy of some polymeric surfaces resulting in poor adhesion. The pre treatment processes of today before painting on a plastic generally contains several process steps eg. power wash, brushing, flame and primer. In project LaPlas the possibilities to use plasma treatment as an alternative technology to clean and activate the plastic substrate before painting is evaluated. The aim is to implement a fast and robust pre-treatment with plasma technology.

14:15

Reproducibility of Accelerated Corrosion Tests

Jonathan Bäck, Göran Holmbom, Tekn. Dr (PhD), Senior Adviser, Proton Technology

Accelerated corrosion testing is used in several areas of industry and in research laboratories to assess corrosion performance of protective coatings and systems. For monitoring process stability in the finishing industry methods like neutral salt spray is used but for product qualification those methods are not suitable. Instead cyclic corrosion tests are preferred because of its, in many cases, good agreement with field data. This study addresses the reproducibility of cyclic accelerated corrosion test methods by a systematic test program where the effect of repositioning and other parameters have been evaluated.

14:35

Embracing Sustainable Value Proposition – Sustainable Coatings Solutions

Nicklas Augustsson, Global Sustainability Director, Beckers Group



Sustainability is coming more and more important for all of us. At Beckers Group we want to create positive impact as a global midsize industrial coatings player. For us sustainability is a core element of our DNA and we always aim to have a holistic approach to the subject. We want to reduce our environmental footprint, contribute to social progress and we want to increase our sustainable value proposition to our customers and end-users. Sustainability driven R&D and partnerships are key for Beckers to get sustainable coatings solutions for the future.

14:55

Clarifying the causes of coating defects

David Hoffmann, engineer of bio- and nanotechnology, DFO Service GmbH

To find the root cause of a coating defect sometimes an analytical investigation is required. But what are the proper analytical methods and how to interpret the results? The laboratory of DFO Service GmbH has specialized technically and analytically in finding solutions for coating defects. David Hoffmann reports on typical and atypical case studies from practice and introduces proper analytical methods.

15:15

Latest developments in powder coating of MDF and wood

Henrik Bro, Segment Key Account Manager, Jotun Powder Coatings

Powder coating for MDF and wood is still in a very early stage. Therefore, there is room for the development of new products and solutions. Jotun is one of the leading suppliers of powder coating for non-metallic substrates and has recently brought several new solutions to the market.

15:35

PLUTO Next Generation Coatings using Low Dimension Carbon material as Graphene



Peter Stenquist and Anders Skalsky from Provexa Technology in Sweden.

5 Years ago Provexa in Sweden started the journey from being a professional job plater to becoming an R&D company. In customer dialogues we understood that there was a strong need for substantially improved properties in corrosion protection solutions and coatings. We studied literature and research within these domains and were impressed by the properties of low dimensional carbon materials as Graphene. We launched an extensive R&D project with partners as OEM customers, Chalmers University of Technology and Chalmers Industriteknik. We defined a method for applying low dimensional carbon materials in coatings and achieved unique properties. We named it PLUTO, that is the smallest planet far away from EARTH but we found out that despite its size - it's a true innovation. A New Coating Technology | Technology system extending to multiple functional properties | Top coat | Barrier | Conductive | Discharge protection | Anti Corrosion | Friction Control.

CONFERENCE PROGRAM • THURSDAY 21 MARCH

10:15

Digi-Load – testbed for automatic loading and unloading of components



Charlotte Ireholm, RISE, Research Institutes of Sweden

Digi-load focuses to strengthen the competitiveness in the Swedish surface treatment sector by implementing automation and digitalization when loading and un-loading products.

The purpose will be to shorten ramp-up times, reduced cycle times and to optimize processes by using virtual twins and simulations. The existing test sites, three physical and one virtual, will use existing technologies such as traditional and collaborative robots, vision and sensor technologies and focus on demonstrating today's and tomorrow's possibilities in the areas of loading and un-loading.

10:45

SelfPaint – the future way of painting



Fredrik Edelvik, Associate Professor, Vice Director, Fraunhofer-Chalmers Centre

Presentation of a project focused on automation of the generation of robot programs and process parameters to guarantee a certain paint thickness. The benefits are a shortened product preparation time, increased quality and reduced raw material and energy consumption. A demonstrator of the system is built at Fraunhofer IPA in Stuttgart during the spring 2019.

11:30

How will future business models create additional value, by enhancing corporation and valuation of risk throughout the entire value chain?



Jens Tommerup, Owner, JT Consultant

Jens Tommerup has been CEO in the coating and wind industry for many years and is today involved in board work and consulting.

In this section we will discussed how new partnerships models create additional value and how this additional value can be shared through the supply chain. Furthermore, we will discuss what the coating industry can learn from other industries and what can other industries learn from the coating industry.

12:15 Lunch break

13:15

Create real values using VR robot programming



Pelle Andersson, Robnor

What happens when adding new technology in the form of Virtual Reality (VR) in a traditional experience-based process? Starting from the core knowledge of robot and application technology and adding a simple interface, VR, programming time can be reduced by 80%, while increasing productivity and quality. Additionally, you reduced paint loss and get better ergonomics. We have seen that VR changes the conditions for robot automation and creates opportunities to do better projects. Is it too good to be true? Scania, Valtra, Deutz, Plastal and others can confirm that it works in reality.

13:35

Powder Coating of Heat Sensitive Substrates From START TO FINISH – Turn-key solutions



Lars Karlsson, Triab

TRIAB has supplied several powder paint lines for heat sensitive substrates eg MDF and different products like table tops, bathroom furniture and kitchen fronts etc. Powder coating VS wet paint results in a more durable surface with less paint layers. Powder is easy and safe to handle and with a minimal waste and no air pollution. The line design and the different process steps will be explained.

13:55

Zirconium based passivation belong to the future



Jörgen Pettersson, Sales & Marketing Director, Surface treatment, Electronic & Metals, Candor

Zirconium based passivation has been around for over a decade and is used globally in various applications. It is fast becoming the preferred choice of pretreatment as passivation product before paint. What are the major differences and the advantages and disadvantages?

14:15

Collect data across your entire production



Henrik Daugbjerg-Pedersen, Sales & Marketing Director, Eltronic

The Eltronic Data Intelligence are currently looking for partners worldwide to distribute our innovative IIoT platform called DIAP. The DIAP is able to obtain data from all kinds of machines, robots, sensors etc. To describe the DIAP in short, it is capable doing the following 3 things:

- Realtime data collection and visualization
- Realtime OEE
- Predictive Maintenance

It is a cloud solution using Microsoft Azure and connects to the cloud by 4G, Ethernet or WiFi. The solution has ready to use Software and Hardware and only needs some configuration to get access to data and to start visualizing.

WELCOME TO THE GALA DINNER AT CARLSBERG MUSEUM & BUSINESS CENTRE!

At March 20, the Carlsberg Museum & Business Centre open the gates for the popular industry party. We promise a nice evening with beer, wine, good food and mingle with people in the industry. The ticket includes a magical entertainment by Caroline Ravn, one of the world's few female magicians, welcome beer / drink, three-course menu incl. beer or wine for the food.

Invite your customers and partners, book your own table!

Now you have the opportunity to book your own table for you and your customers. Book 8 or 10 tickets so you sit together at your own round table that your company hosts. Corporate logo sign on the table.

Price: DKK 790.- + VAT/seat

Order the tickets from sofia.mannerblad@bramassor.se
Your pre-booked tickets can be downloaded from the registration desk at the fair.

Time och place:

March 20, 2019 at 6-10 PM
Carlsberg Museum & Business Centre
Valby Langgade 1, Copenhagen



Fotograf Accdemotion 2.0

Scandinavian Coating is a collaboration between SPF – the Swedish Powder Coaters Association, MAB – Maleudstøvs- og anlægsleverandørernes branscheforening (the Measurement Equipment and Construction Suppliers Association) and NPLF – Norsk Pulverlakkteknisk Forening (the Norwegian Powder Coaters Association) and is arranged together with the trade fair organiser BraMässor Sverige AB.

THIS IS SCANDINAVIAN COATING

- Nordic region's leading surface treatment exhibition
- Exhibitors from nine countries
- 16 free seminars
- Gala Dinner with over 200 guests

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