

**SECO WARWICK GROUP**

ON-LINE

B2B

EVENT

# **e-SEMINAR 4.2**

**HEAT TREATMENT & METALLURGY**

**27-29.09.2022**

SPEECHES  
PANELS  
DISCUSSIONS  
TV STUDIO

## **AGENDA**



# **BLOCK 01**

**THE FUTURE IS NOW, WHAT WILL TOMORROW BRING?**

**Host:** Łukasz Piechowicz



# BLOCK 01

## Theme I: The Power of Industry 4.0

### SPEAKERS

prof. UZ, dr hab. Eng.

**SŁAWOMIR KŁOS**

University of Zielona Góra

**JAROSŁAW GRACEL**

CEO of ASTOR

**GRZEGORZ KORPAŁA** PhD Eng.

TU Bergakademie Freiberg

**ŁUKASZ SOBOLEWSKI**

IT Project Manager, SECO/WARWICK

# BLOCK 01

## Theme I: The Power of Industry 4.0

Watch the lecture and the discussion about the factory of the future. This theme block will cover a fascinating topic - the Industry 4.0 concept in heat treatment today and tomorrow.

Explore the pillars of Industry 4.0. —

Find out where the future of furnace maintenance is heading. —

Discover how to use artificial intelligence in heat treatment. —

Learn about unlocking the potential of Industry 4.0 in heat treatment. —

How is the heat treatment industry changing in light of Industry 4.0? What are the challenges and benefits of the 4th Industrial Revolution in heat treatment? Why PdM is more than just maintenance? How can heat treatment facilities use artificial intelligence for microstructure analysis?

Find out the answers to these and other questions from accomplished scientists and experts in the field of robotics and automation, data analytics, optimization of production processes, information technology (IT), and computer modeling in materials engineering.



# BLOCK 01

## Theme II: The Power of Low Pressure Carburizing

### SPEAKERS

#### ANANT ANDHALE

Plant Head and General Manager of Heat Treatment Facility,  
Kalayni Technoforge Ltd

#### KAI WERLITZ

Technical Director, Härtewerk Chemnitz GmbH

#### GRZEGORZ GŁUCHOWSKI

Sales Manager, SECO/WARWICK

#### MICHAŁ BAZEL

Chief R&D Specialist for Vacuum Technologies,  
SECO/WARWICK

Do you know the answer to this question: What type of carburizing enables you to shorten the process? How do you guarantee full control and repeatability of the carburizing process? How can you ensure the safety and quality of the process? **Low Pressure Carburizing - are you in?**

- Discover the benefits of Low Pressure Carburizing.
- Explore the vacuum carburizing furnace.
- Learn to switch to Low Pressure Carburizing.
- Find out where the future of carburizing is heading.

Heat treatment experts will talk about vacuum carburizing as an innovative alternative to traditional carburizing and how vacuum technologies are changing the face of heat treatment.

## **BLOCK 01**

### **Theme II:** The Power of Low Pressure Carburizing



# BLOCK 01

## Theme III: The Power of Metal Powders

### SPEAKERS

Professor

**TODD A. PALMER**

Director of the Center for Innovative Sintered Products,  
Penn State

**AAMIR ABID** PhD Eng.

Director of Powder Products and New Product Development,  
Retech LLC, SECO/WARWICK Group

**MARCIN LISIEWICZ**

Deputy Director of the Department for Product Development,  
SECO/WARWICK

**SECO/WARWICK GROUP**

# BLOCK 01

## Theme III: The Power of Metal Powders

Join the discussion between experts about the challenges to produce the novel metal powders for additive manufacturing.

Learn about the required properties —  
for metal powders for additive manufacturing (AM).

Explore state-of-the-art metal powder manufacturing processes. —

Find out where the future of metal powder —  
manufacturing is heading.

The production of novel powders supports the development of additive manufacturing solutions, and this technology is poised to revolutionize digital manufacturing in the near future.

Hear from experts in powder metallurgy and additive manufacturing and find out the answers to important and interesting questions on the subject.



# BLOCK 02

THE BUSINESS SIDE OF HEAT TREATMENT

**Host:** Piotr Zawistowski



# BLOCK 02

## Theme I: How Technology will Change the Heat Treat Industry

### SPEAKERS

**DANIEL H. HERRING**

The Heat Treat Doctor®

**TOM HART**

Product Manager, SECO/VACUUM

**SECO/WARWICK GROUP**



# BLOCK 02

## Theme I: How Technology will Change the Heat Treat Industry

Step into the mind of one of heat treatment's most renowned experts to learn how changes to materials will help manufacturers produce new components that out-perform the components of past.

These changes in both chemistry and mill practices will usher in the need for new manufacturing techniques, including heat treatment processes and equipment. "The Heat Treat Doctor"®

Dan Herring will share his insights and discuss how our industry will capitalize on these advancements in material sciences.

# **BLOCK 02**

## **Theme II:** Climate change – what does it mean to your heat treating operation?

### **SPEAKERS**

#### **DAVID SCHARF**

Senior Heat Treat Engineer North America,  
Schaeffler Group USA Inc.

#### **RAFAL WALCZAK**

Product Manager, SECO/VACUUM

#### **DON MARTEENY**

P.E, Vice President, SECO/VACUUM

#### **DR. SOLOMON BERMAN**

President & CEO, IBC Coating Technologies



Are you trying to understand the impact of climate change on your heat treating operation? Are you concerned about how regulations may increase your operating costs? Are you curious about the opportunities that new technologies associated with climate change will bring to heat treating? Join us as we discuss this challenging topic with both multinational manufacturers and commercial heat treaters. We will explore the challenges of today as well as the opportunities of tomorrow as we discuss perspective regulations and technologies tied to this complex topic.

## **BLOCK 02**

**Theme II:**  
Climate change –  
what does it mean to your  
heat treating operation?

# BLOCK 02

**Theme III:** The influence of EV market  
on the gear and bearing industry.

## SPEAKERS

**WILLIAM "MARK" MCVEA**

President and Principal Engineer at KBE+, Inc.

**TOM HART**

Product Manager, SECO/VACUUM

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# BLOCK 02

**Theme III:**  
The influence of EV market  
on the gear and bearing  
industry.

Are you trying to get a grasp of the upcoming (and underway) “transformation” of gearing & bearing systems from the internal combustion engine to the Electric Vehicle (EV) platform?

William “Mark” McVea Ph.D, P.E. and Principal Engineer, and CEO of KBE<sup>+</sup>, a leader in vehicle transmission and powertrain design, development and analysis with extensive experience in the EV transaxle industry, will discuss how this transition will impact your business and the way industry approaches its production techniques to successfully address this emerging technology and product.

# BLOCK 03

#HeatTreatment TECHNOLOGY AND FRIENDS,  
WITHOUT WHOM IT DOESN'T MAKE SENSE.

**Host:** Adam Adamek



# BLOCK 03

## Theme I: High Temperature Solution Nitriding of Stainless Steel and Titanium

How to improve corrosion and wear resistance of stainless steel or titanium alloys?  
You will learn about this and other interesting issues from the conversation of our guests.

### SPEAKERS

**THOMAS STRABO HUMMELSHØJ**

CTO Expanite A/S

**JĘDRZEJ MALINOWSKI**

Sales Manager, SECO/WARWICK

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# BLOCK 03

## Theme II: Technology transfer from atmosphere to vacuum, quality improvement

Outsourcing or in-house heat treatment.  
Transfer from atmosphere to vacuum furnaces.  
What benefits or what threats you can meet while changing place and equipment.

### SPEAKERS

**PRZEMYSŁAW SKWIERCZYŃSKI**

Technology Engineer, Geberit Ozorków Sp.z o.o.

**GRZEGORZ GŁUCHOWSKI**

Sales Manager, SECO/WARWICK

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# BLOCK 03

## Theme III: Discussion panel: #HeatTreatment of fasteners. How is it done?

Fasteners are seemingly simple parts.  
Heat treatment of this type of parts, however, requires dedicated solutions.  
What is worth paying attention to, you will hear about it in this discussion panel.

### SPEAKERS

**GRZEGORZ DOLOT**

STALMAX Sp. z o.o.

**MACIEJ STANULEWICZ**

Sales Manager ATM Products, SECO/WARWICK

**MARIUSZ SKÓRA**

Solvera Gawel Technology S.A.

**MARIUSZ RASZEWSKI**

SoDeputy Director for Sales of Thermal Products,  
Aluminium Process and CAB Furnaces Division,  
SECO/WARWICK

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# BLOCK 03

## Theme IV: Practice makes perfect brazing

Vacuum brazing is a series of operations where each has a role and must be done as required. Sometimes one incompatibility affects the tightness of the soldered joints. We will find out what it looks like from a practical point of view here.

### SPEAKERS

**MARCIN WENTA**

SonFlow A/S

**PAWEŁ OKIŃCZYK**

Sales Engineer, SECO/WARWICK

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# BLOCK 03

## Theme V: Discussion panel: Hot Work Tools #HeatTreatment

Discover the secrets of tool steel heat treatment during a riveting debate.  
Listen to the discussion, you will become an even greater expert in tool steel heat treatment.  
Theory mixed with practice, this you can expect here.

### SPEAKERS

**ANKIT GUPTA**

Executive Director, Modern Metals India

**ANITA KÖRMENDI**

AI Project

**ADAM ADAMEK**

Sales Manager, SECO/WARWICK

**PAULO DUARTE**

Project Manager, Metalsolvus

**KAMIL SIEDLECKI**

Sales Manager, SECO/WARWICK

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# CONTACT

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# BLOCK 03

## Theme I:

#HeatTreatment in practice:  
real examples and  
applications shown  
in production facilities

During this part, we will visit several locations where  
#HeatTreatment processes are carried out.  
We will present various technical, yet practical case studies  
that show real problems and the methods for solving them.

We want to tell you more about hardening,  
brazing, carburizing, nitriding and other technologies...

Representatives and practitioners of well-known corporations and  
smaller companies that solve issues on a daily basis will present their solutions.

**You will learn about technologies —  
that you may not have known existed.**

**You will see how others deal with the same —  
technological challenges that you face.**

**You will meet experts with whom you will want to —  
collaborate with more closely in the future.**

We will also talk about technologies that have been invented  
to bring innovation to the entire world. That is, on the role of heat treatment  
in the development of advanced technologies that may surprise you.

Along with discussing the technicalities, we will also address  
the aspects related to the coordination of the heat treatment implementation processes  
and the input of other departments (units) responsible for manufacturing the entire finished product.

In this section, we will talk about tool steel #HeatTreatment. We will discuss about the hardening processes that most of the industry deals with on a daily basis, however, that still creates a lot of challenging issues. After this panel discussion, the hardening of tools will be no secret to you. You will get to know more about this technology and its advantages and disadvantages; you will learn some interesting facts and practical tips.

- You will discover the secrets of tool steel heat treatment during a riveting debate.
- You may hear a thesis which you will fully agree with and some that you may find extremely controversial.
- It is possible that having listened to the discussion, you will become an even greater expert in tool steel heat treatment.

Theory mixed with practice; this you can expect here.

In this panel, you will meet specialists who not only have knowledge and experience but are also keen to share them with you.

So, if you are involved in the heat treatment of tool steels, or you produce tools, it might be worth your while to listen to what others have to say on the matter.

## **BLOCK 03**

### **Theme II:**

Discussion panel:  
Tool steel #HeatTreatment