2nd International Conference

Automotive Corrosion Protection

Effective pre-treatment solutions - Accurate corrosion testing and prediction - Advanced prevention strategies for different materials

25 - 26 April 2017 | Kempinski Hotel Bristol Berlin, Germany

With first-hand insights from these experts among others:

Laurent Rougier, Paint and Anticorrosion Expert, Renault, France

Gabriele Ciaccio, Group Materials Labs, Surface Treatments and Anticorrosion, Centro Ricerche Fiat, Italy

Dr. Jens Krömer, Global Business Development Manager, Henkel AG & Co, KGaA, Germany

Saghi Saedlou, Head of Stainless Steel Solutions Dept, Aperam Research, France

Lars Baumgürtel, Managing Director, ZINQ Technologie, Germany

Amongst others the following companies will be presenting:
Automotive Corrosion Protection

25-26 April 2017
Berlin, Germany

Why should you attend?

• Develop a better understanding of unique corrosion mechanisms of different materials and components
• Discover new strategies for corrosion damage protection, functional coatings and repair approaches
• Review current corrosion test methodologies and how to improve these for new vehicle designs

Further confirmed speakers:

Jörg Saßmannshausen,
Application Specialist “Corrosion Protection”,
Vehicle Engineering and Verification,
Ford-Werke, Germany

Karl-Heinz Stellnberger,
Unternehmensbereich Band, Forschung und
Entwicklung, CTE Prozessverantwortung
Korrosionsschutz & Dünfilmbeschichtungen,
voestalpine Stahl, Austria

Michael Stählner,
Head of Quality Development,
Dörken MKS, Germany

Dr. Paul Oberhauser,
Senior Scientist Surface and Corrosion
Technology,
AMAG rolling, Austria

Dr. Sylvia Hartmann,
Director Technical Analysis,
Eberspächer Exhaust Technology,
Germany

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Eberspächer Exhaust Technology,
Germany

Companies and Institutions participating in the previous year:

• Audi AG
• Aperam
• ArcelorMittal
• Atotech Deutschland GmbH
• CHEMETALL S.A.S Franc
• Centro Ricerche Fiat S.C.p.A
• Continental Teves AG & Co. OHG
• Cosma Engineering
• Ford Lommel Proving Ground
• Ford Werke GmbH
• Fundación CIDETEC
• Henkel AG & Co. KGaA
• Honda R&D Americas, Inc.
• Hydro Aluminium Rolled Products
• Iveco Magirus AG
• Iveco SpA
• JFE Steel Corporation
• Johnson Electric ASTI S.r.l.
• Kobe Steel, Ltd.
• POSCO Europe Office
• PPG France BFS
• PSA Peugeot Citroen
• Pfnder KG
• Renault SAS
• Robert Bosch GmbH
• SINTEF Materials and Chemistry
• Slovenian National Building and Civil Engineering Institute
• Swerea KIMA
• TU Dresden
• The University of Manchester
• ThyssenKrupp Steel Europe AG
• VALEO HVAC Heat Exchanger Division
• Valeo Termico SA
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**Conference Day One**

Tuesday, 25 April 2017

### 08:30 Registration and welcome coffee

### 09:00 Welcome & opening Address

### 09:10 Stainless steel in automotive applications
- Exhaust switch experience from carbon steel to stainless steel
- Methodology to well apprehend stainless steel corrosion resistance to select the right grade
- New challenges for new applications, stainless steel for BIW and chassis: ed-coating and galvanic corrosion topic

Saghi Saedlou, Head of Stainless Steel Solutions Dept, **Aperam Research**, France
Co-author: Clément Boissy

### 09:50 Paint yourself
Tell your peers about yourself by short drawings and discover striking details in return.

### 10:20 Coffee break & networking

### 10:50 New applications of repair materials in corrosion damage repair and prevention
- New ranges of application for well-known materials
- Corrosion prevention for field vehicles with new materials
- Hidden Champions
- Examples for comprehensive method development

Jörg Saßmannshausen, Application Specialist "Corrosion Protection", Vehicle Engineering and Verification, **Ford-Werke**, Germany

### 11:30 Z7xxx aluminium sheets for automotive applications – potentials and challenges
- Forming Processes (Warm and Hot Forming)
- Evolution of Mechanical and Corrosion Properties
- Key Process Requirements

Dr. Paul Oberhauser, Senior Scientist Surface and Corrosion Technology, **AMAG rolling**, Austria

### 12:10 Lunch Break & Networking

### 13:40 Corrosion dynamic test: new way of probing
- Corrosion dynamic test is still a key step for carmakers.
- Facilities are not changing but methods of analysis can be updated
- By putting different sensors on the car before and during the test, we can gather new data.
- These data will help us for a better understanding results and phenomena

Laurent Rougier, Paint and anticorrosion expert, **Renault**, France

### 14:20 Intergranular corrosion: A challenge for ferritic stainless steel in exhaust systems
- The risk of intergranular corrosion
- Welding seams – the most critical areas in exhaust systems
- Corrosion tests - a good way to check the intergranular corrosion resistance

Dr. Sylvia Hartmann, Director Technical Analysis, **Eberspächer Exhaust Technology**, Germany

### 15:00 Coffee break & networking

### 15:30 Why copper-accelerated acetic-acid salt spray test (CASS)? The corrosivity of copper salt
- Background and the current extensive use of CASS test
- Degradation of decorative multilayer focused on nickel/chromium coatings under CASS test.
- Electrochemical studies exploring the effect of copper in the corrosion mechanism of nickel/chromium systems under CASS electrolyte and modifications of such electrolyte.
- Application of localized electrochemical techniques to study the corrosion mechanism under CASS electrolyte

Dr. Eva García Lecina, Head of Metallic Surfaces Unit, **CIDETEC**, Spain

### 16:10 Day End Statement

### 16:20 End of Conference Day 1

### Additional Interactive Sessions:

- **Who is Who**
  Discover who else is participating in the conference. The matchmaking picture wall will help you identify who you want to meet at the conference.

- **Paint yourself**
  Tell your peers about yourself by short drawings and discover striking details in return.

- **Reception**
  Join us for an informal reception at the Salon Charlottenburg directly after the first conference day

- **Knowledge-Café**
  Exchange your topic related experiences at a round table and develop new ideas while moving from table to table in small groups.
09:00 Registration and welcome coffee

09:20 Corrosion problems on automobile bodies, identification of corrosion mechanism
• Paint Delamination, Blistering
• Perforation Corrosion
• Galvanic Corrosion
• Transport Corrosion
Karl-Heinz Stellnberger,
Unternehmensbereich Band, Forschung und Entwicklung, CTE Prozessverantwortung Korrosionsschutz & Dünnfilmbeschichtungen, voestalpine Stahl, Austria

10:00 Knowledge-Café
Exchange your topic related experiences at a round table and develop new ideas while moving from table to table in small groups.

11:00 Coffee break & networking

11:30 Sustainable paint shop technologies – a global picture for functional coatings?
• Global Technology roadmap for modern paint shop lines
• Sustainable process materials & functional coatings
• New substrates influencing the multi metal pretreatment process
• Adapted nickel-free Multimetal Pretreatment Systems and their global evolution
Dr. Jens Krömer,
Global Business Development Manager, Henkel AG & Co, KGaA, Germany

12:10 Influence of volatile corrosion inhibitor on friction material
• volatile corrosion inhibitor (VCI) are largely used to protect metal components during shipping or storage;
• an oversea shipping test by boat of friction material protected with VCI showed a performance decreasing;
• a test has been conducted to try to identify the root cause of the performance decreasing.
Gabriele Ciaccio,
Group Materials Labs, Surface Treatments and Anticorrosion, Centro Ricerche Fiat, Italy

12:50 Lunch Break & networking

14:20 Advantageous behavior of alloy optimized hot dip galvanized components in chassis applications
• Characteristic of thin film galvanizing
• Test results under corrosive and mechanical loading
• Long term field experience
Lars Baumgürtel, Managing Director, ZINQ Technologie, Germany

15:00 Corrosions issues on fasteners
• Different kinds of corrosion at fasteners
• Corrosion protection on fasteners
• Influence of coatings regarding hardness/tensile
• Different kind of corrosion tests and results
Michael Stähler, Head of Quality Development, Dörken MKS, Germany

15:40 End of the conference
Every registration includes a complementary membership to Automotive IQ

The delegate fee includes the following services:
• Access to the purchased conference packages
• Catering during the entire conference
• Conference documentation

Only one discount applicable per person.

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