Organisation

Registration

For organisational reasons, please send your registration to:

GfKORR - Gesellschaft für Korrosionsschutz e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt / Main
Phone: +49 (0) 69 7564-360 /-436
Fax: +49 (0) 69 7564-391
E-Mail: gfkorr@dechema.de
Web: https://gfkorr.de/Veranstaltungen

Participation fees *)

Members of GfKORR, EFC	
- Part 1	270.- €
- Part 2	270.- €
- Part 1+2	460.- €
Non-Members	
- Part 1	290.- €
- Part 2	290.- €
- Part 1+2	495.- €

*) no VAT requested according to § 4.22 UStG

The registration fees include the conference documents.

Conditions of participation

The receipt of the registration is considered as binding confirmation of the participant. Upon receipt, you will receive confirmation and an invoice for the order due. Registered participants can cancel in writing free of charge no later than 8 February 2022 for Part 1 and 8 March 2022 for Part 2. After this date 80% of the participation fee will be charged. In case of absence or cancellation of participation, the full participation fee is to be paid. Furthermore, you may nominate a substitute participant.

Die GfKORR

GfKORR - Gesellschaft für Korrosionsschutz e.V. (Society for Corrosion Protection) is an interdisciplinary association of experts from industry and research whose objective is to reduce corrosion and prevent consequential damage in all relevant areas.

Corrosion and the consequential damages of corrosion cause annual costs in the billions in Germany alone, whereby almost all branches of industry and economic sectors are affected. If, in addition to the direct damage, the consequential costs due to loss of production or services are also taken into account, the overall economic damage is in excess of over 4% of the gross national product.

To enable effective corrosion control, GfKORR is dedicated to promoting profound causal research and efficient knowledge transfer in all areas of corrosion.

For further information please contact

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Theodor-Heuss-Allee 25
60486 Frankfurt am Main
Tel.: 069/7564-360/-436
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Web: https://gfkorr.de

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VDM Metals Gruppe

GfKORR – Gesellschaft für Korrosionsschutz e.V.

EFC Event No. 478

Corrosion of Nickel Alloys in Aqueous Solutions and under High Temperature Corrosion Conditions and their Applications

22 February 2022 (Part 1)
22 March 2022 (Part 2)
Online-Event

Introduction

The Webinar takes the audience into the world of Nickel alloys. It outlines the different mechanisms of the corrosion of Nickel alloys in aqueous solutions and at high temperatures. Applications of Nickel alloys in different industrial sectors are presented. Furthermore the attendants receive an insight view into recent development of new alloys.

Programme – 22 February 2022 (Part 1)

Corrosion of Nickel Alloys in Aqueous Solutions

13:00 Welcome

13:15 Nickel alloys – Answer to corrosion in aqueous environments
Types of corrosion, Aqueous environments, Acids, Oil and gas, Influence of alloying elements
Dr. Hubertus Schlerkmann
Roetgen

14:15 Standard IG and CPT corrosion tests and their impact on practical applications
IG and CPT corrosion tests, High alloyed austenitic stainless steels, Nickel base alloys
Dr. Per Henrik Asteman
Bayer AG, Leverkusen

14:45 Break

15:15 Applications of Nickel Alloys in Aqueous Solutions
Corrosion under reducing and oxidizing conditions, Seawater, Sodium Hydroxide, Sulfuric Acid
Dr.rer.nat. Iris Rommerskirchen
Eisenbau Krämer GmbH, Kreuztal

Programme – 22 February 2022 (Part 1)

15:45 Recent Developments in New Corrosion Resistant Nickel Alloys
New Ni-Cr-Mo and Ni-Cr-Fe-Mo-Cu alloys, Alloy 2120 MoN, Alloy 31 Plus, Alloy 825 CTP, Improved Wet Corrosion Resistance, Improved Fabricability and Weldability, Application Examples, Chemical Industry, Oil and Gas Industry, Flue Gas Desulfurization, Sea Water and Saline Environments
Dr. Helena Alves
VDM Metals International GmbH, Altena

16:15 End of Part 1

Programme – 22 March 2022 (Part 2)

High Temperature Corrosion

13:00 High Temperature Corrosion
Part 1: Introduction and Fundamentals
Types of High Temperature Corrosion, Phenomena and Mechanisms, Thermodynamics, Kinetics, Role of Alloying Elements
Prof. Dr.-Ing. Michael Schütze
DECHEMA-Forschungsinstitut, Frankfurt

13:45 High Temperature Corrosion
Part 2: Testing and Standardization
Thermogravimetric Testing, Long-term Exposure, Testing in Complex Environments, Post-experimental Examination, ISO-Standards
Prof. Dr.-Ing. Michael Schütze
DECHEMA-Forschungsinstitut, Frankfurt

Programme – 22 March 2022 (Part 2)

14:15 Nickel alloys in energy production: Special cases of high temperature corrosion
Waste to energy, Solarthermic power plants, Molten salt corrosion, Chlorine effect
Prof. Dr. rer. nat. Michael Spiegel
Salzgitter Mannesmann Forschung GmbH, Duisburg

15:00 Break

15:30 Requirements and Areas of Application of High-Temperature Nickel Alloys
High-temperature alloys, High-temperature corrosion, High-temperature strength, High-temperature components
Prof. Dr.-Ing. Ulrich Brill
Wetter (Ruhr)

16:00 New Developments of Nickel Alloys for Applications in High Temperature Corrosion Environments
Improved Metal Dusting behavior, Good combination of oxidation resistance and physical properties, Improved creep-resistance at high temperature, New NiCoCr-Superalloy with excellent processing and mechanical properties
Dr. rer. nat. Benedik Nowak
VDM Metals International GmbH, Altena

16:30 End of Part 2

Unforeseen program changes are reserved.