

Minutes of the Business Meeting Working Party 3: Corrosion by Hot Gases and Combustion Products (WP3)

10.09.2012 EUROCORN 2012 Istanbul, Turkey

1. Prof. Michael Schütze (DECHEMA) opens the meeting and welcomes the participants.

2. Prof. Schütze presented the three-year, working program of the WP3.

2.1. WP3 meetings

- business meetings will continue to take place annually in conjunction with

EUROCORN (20-30 participants), business 100%

- technical workshops organized by the WP3 will be held every 2-3 years (60-100 participants),

technical 100%

The next workshop is the EFC Workshop: Beyond Single Oxidants

September 19, 2012 - September 21, 2012, DECHEMA-Haus, Frankfurt am Main

No EFC series book is planned containing the contributions from to this workshop, instead selected papers will be published in the peer-reviewed journal "Materials and Corrosion".

2.2 Sessions organized at EUROCORN.

- 1-day topical session at EUROCORN 2012

- 1- or 2-day WP3 topical session planned for EUROCORNs 2013-2015 depending on the contribution of authors

Cooperation with other WPs e.g. Joint Sessions at EUROCORN 2013

A joint session of WPs 3, 6, 8 and 14 on Coatings for High Temperatures is planned for EUROCORN 2013

2.3 Information about EFC, working parties, events, courses etc. Is published on its

Webpage www.efcweb.org. Information is kept up-to-date.

2.4 Participation in EU research programs. Success rate < 10%.

- The framework 7 program is about to end, new funding possibilities will be revealed in the EU-framework 8 program

2.5 Development of standards for high temperature corrosion testing.

The following standards are already or will be published in 2012:

- ISO 21608 - Corrosion of metals and alloys - Test method for isothermal-exposure oxidation testing under high-temperature corrosion conditions for metallic materials.

- ISO 26146 - Corrosion of metals and alloys - Method for metallographic examination of samples after exposure to high-temperature corrosive environments.

- ISO 13573 - Corrosion of metals and alloys -- Test method for thermal-cycling exposure testing under high-temperature corrosion conditions for metallic materials.

Currently in preparation are:

- ISO/WD 17248 - Test method for high-temperature corrosion testing of metallic materials by embedding in salt, ash, or other solids.

- ISO/WD 17245 - Test method for high-temperature corrosion testing of metallic materials by immersing in molten salt or other liquids.

- ISO/WD 17224 - Test method for high-temperature corrosion testing of metallic materials by application of a deposit of salt, ash, or other solids.

Other ISO activities include:

- Coordination initiated with TC 107 (Metallic and other inorganic coatings), November 2010.

- ISO/DIS 13123 - Metallic and other inorganic coatings - Test method of cyclic heating for thermal-barrier coatings under temperature gradient.

- ISO/DIS 14188 - Test methods for measuring thermal cycle resistance and thermal shock resistance for thermal barrier coatings.

Mr. Mohammed Diab from Sabic suggests working on an ISO standard, dealing with how to expose samples in an industrial environment.

2.6 List of upcoming high temperature corrosion events.

EFC Workshop: Beyond Single Oxidants 19-21 September 2012, Frankfurt, Germany

E-MRS 2012 Fall Meeting 19-23 September 2012, Warsaw, Poland

International Conference on Materials and Coatings for Extreme Performances 24-27 September 2012, Crimea, Ukraine

MSE Materials Science and Engineering 25-27 September 2012, Darmstadt, Germany

ECS-Meeting 1-12 October 2012. Honolulu, USA

Titanium 2012 7-10 October, Atlanta, USA

Materials Science & Technology MS&T 2012 7-11 October 2012, Pittsburgh, USA

VGB-Kongress: Kraftwerke 2012 / Power Plants 2012 10-12 October 2012, Mannheim, Germany

European Workshop New Approaches to High Temperature Coatings, Particoat 15-17 October 2012, Lanzarote, Spain

MRS Fall Meeting 26-30 November 2012, Boston, USA

142nd TMS Annual Meeting & Exhibition 3-7 March 2013, San Antonio, Texas

CORROSION 2013, Nace 17-21 March 2013, Orlando, Florida

2013 MRS Spring Meeting & Exhibit 1-5 April, 2013, San Francisco, CA; USA

40th ICMCTF 2013 29 April – 3 May 2013, San Diego, CA, USA

223rd ECS-Meeting 12-17 May 2013, Toronto, Canada

Beyond Nickel-Based Super Alloys 13-17 May, 2013, Bad Berneck, Germany

2nd International Congress on Advanced Materials 16-19 May 2013, Zhenjiang, China

E-MRS Spring meeting 27-31 May 2013, Strasbourg, France

Plansee Seminar 3-7 June 2013, Reutte, Austria

Gordon research Conference: High Temperature Corrosion 21-26 July 2013, Colby College, USA

The 8th Pacific Rim International Conference on Advanced Materials and Processing
4-9 August 2013, Waikoloa, Hawaii

22nd International Materials Research Congress 11-16 August 2013, Cancun, Mexico

Eurocorr 2013 2-6 September 2013, Estoril, Portugal

LightMAT2013– Aluminium, Magnesium, Titanium 3-6 September 2013, Bremen, Germany

Euromat 2013 8-13 September 2013, Sevilla, Spain

Euro Intelligent Materials 25-27 September, 2013, Kiel, Germany

Intermetallics 2013 30.9 – 4.10.2013 Kloster Banz, Germany

MS&T'13: Materials Science & Technology Conference and Exhibition, combined with ACerS 115th

Annual Meeting 27-31 October, 2013 Montréal, Canada

224th ECS-Meeting 27 October-1 November 2013, San Francisco, USA

2013 MRS Fall Meeting & Exhibit 1 - 6 December 2013, Boston, USA

Thermec 2013 2-6 December 2013, Las Vegas, USA

2.7 Prof M. Schütze suggests the election of a Vice-Chairman for working party 3 to support him.

Dr. Mathias Galetz from Dechema-Forschungsinstitut is elected as Vice-Chairman by members of the working party

Frankfurt/Main, Germany 04.10.2012

Dr. M. Galetz