



HUNGARIAN FEDERATION OF CORROSION
Member of the European Corrosion Society, EFC
and the World Corrosion Organization (WCO)
H-1094. Budapest, Angyal u 1-3 16. <http://www.hunkor.hu>



HUNGAROKORR 15-17 September 2015, Budapest
<http://www.corrosion.hu/hungarokorr2015>

INVITATION to the 16th HUNGAROKORR Corrosion Protection Conference and Exhibition

Törökbálint (a few kms southwest of BUDAPEST)

15 – 17 September 2015

The European Federation of Corrosion, EFC, has also registered the 16th HUNGAROKORR events (Reg. No.: 399), which has been organized by the HUNGARIAN FEDERATION OF CORROSION (HUNKOR) in collaboration with several other professional societies being involved and/or interested in communication and research and development activities related to mitigation of corrosion and applying protective coatings.

The organizers had the intention to invite international experts, specialists and entrepreneurs alike from many different fields of corrosion science and corrosion protection processes so that they can discuss with each other the possible and many alternatives available nowadays.

Among the invited foreign participants there are three highly recognized scientists from three well-known European higher educational and research centres of metallurgical/materials and corrosion sciences.

Responding to the needs of practicing entrepreneurs being active mostly in Hungary, the organizers decided to start the three-day events with an **INDUSTRIAL FORUM**, followed by the **SCIENTIFIC CONFERENCE** on the second day, then finish with a **PLANT VISIT** to the Danube refinery in Százhalombatta of the Hungarian Oil and Gas Co. MOL Group on the third day.

Contents of this 3rd NEWS LETTER of HUNGAROKORR 2015

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 2. **INDUSTRIAL FORUM** (on the first day)
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1. PLENARY LECTURES:

Prof. Dr. Pier Luigi A few remarks about the Universe of protecting coatings
Bonora AITIVA, Italy

Prof. Dr. Rajan Ambat Corrosion reliability of electronics
Technical University of
Denmark, Denmark

Prof. Dr. Gregor Mori Resistance of austenitic stainless steels against stress corrosion cracking
Montanuniversität
Leoben, Austria

Professor P.L. Bonora's lecture (abstract): „In this presentation I will focus first on a bird's eye up-dating of last ten years evolution of the most widely applied protecting and/or decorative coatings.

A second topic I'd like to develop concerns the results of a three years European Project titled "EURAXLES", based on protecting coatings on railways axles, showing the "autonomous" procedures adopted along with the about thirty Authorities in Europe before the tragic Viareggio catastrophic event.

I'll then give a survey of what was the main topic during the last ten year of my research work in both Trento and Udine Universities, i.e. metal matrix composite coatings based on nano/micro ceramics inclusions in metallic deposits

I'll then give some personal remarks on both the need of education in corrosion control and about some traps and mysteries still hidden inside the most popular and widely used coating technologies, including duplex system and not only."



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2. INDUSTRIAL FORUM (on the 1st day, i.e. 15 September, 2015)

Companies and industrial experts are invited to present their innovations, novel developments and their new products.

Track One: *Major industrial constructions and investments in infrastructural developments*

Invited speakers:

Gábor Kardos (director, National Infrastructure Developing Company, NIF Zrt.): Planned public main road construction developments in Hungary in the period of 2016-2020

Gergely Gecse (Ministry of National Development, NFM): Infrastructural developments of railway lines in the period of 2016-2020

Track Two: *Technologies and New Materials for Surface Protection*

Speakers:

László Fortuna (Forkorr)	Quality control of surface protection of a major industrial construction work
Györgyi Buzás (Minden-korr)	Designing steel structures in view of their corrosion protection
Árpád Antal (MTSZ)	Protection for 100 years without maintenance
Piroska Almássy (Techno-Wato)	New types of coatings with cement binders for drinking-water tanks
Sándor Bán (Powerin)	Ultra-Ever Dry, a coating system with water and oil repelling properties
László Ostorházi (Ostorházi Bevonattechnika)	Surface treatment and coating processes and sustainable development
Judit Gergely - Dr. István Tóth (MZE)	Vitreous/glassy enamels, and vitreous enamelling as a process for



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corrosion protection

Jörg Molnár (ALENT Hungary)

Novelties in electroplating of metals
(preliminary title)

László Fortuna (Forkorr)

High pressure water jet cleaning and
protective surface treatments on the
Tisza railway bridge in Csongrád
county (movie film, 35 min)

Track Three: *Presentations and exhibits of entrepreneurs, companies and
experts dealing with Corrosion Phenomena and Surface Protection*

Track Four: *Open Forum for consultations between the representatives of professional
technical societies working in and/or related fields of corrosion and corrosion
protection*



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3. SCIENTIFIC CONFERENCE (on the SECOND day, i.e. 16 September, 2015)

Preliminary PROGRAMME

9:00 – 9:10 Opening Words

9:10 – 10:00 **Prof. Dr. P.L. Bonora:** *A few remarks about the Universe of protecting coatings*

10:00 – 10:20 Prof. Dr. Zoltán Hórvölgyi: *Sol-gel coatings: preparation, characterization and application*

10:20 – 10:40 Tala Abohalkuma, Prof. Dr. Judit Telegdi: *Self-assembled molecular layers of special phosphonic acids for corrosion control*

--- Coffee break ---

11:00 – 11:20 Dr. Laura Sziráki, Zsófia Szalmás, Dr. Szabolcs Gyulai-Gaál, Prof.Dr. Győző Láng: *Effect of fluoride ion on the titanium corrosion used in the dental implantology*

11:20 – 11:40 György Bohács, Antal Krójer, György Isaák: *Diversified crude sourcing – new corrosion challenges for MOL Refining*

11:40 – 12:00 József Zoltán Gáspár: *Railway renewals in MOL*

--- Lunch break ---

13:00 – 13:40 **Prof. Dr. Rajan Ambat:** *Corrosion reliability of electronics*

13:40 – 14:00 Dr. Bálint Medgyes: *Electrochemical migration and corrosion in the microelectronic applications*

14:00 – 14:20 Dr. József Hakl, Dr. Kálmán Vad, Dr. Attila Csík, Dr. Viktor Takáts: *Using advanced surface analytical and depth profiling techniques for studying surface layers, thin deposits and corrosion properties*

14:20 – 14:40 Dr. Lívia Nagy, Dr. András Kiss, Dr. Ricardo Souto, Dániel Filotás, Prof.Dr. Géza Nagy: *Application of SECM (Scanning Electrochemical Microscopy) and SVET (Scanning Vibrating Electrode Technique) for studying corrosion processes*

--- Coffee break ---



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15:00 – 15:40 **Prof. Dr. Gregor Mori:** *Resistance of austenitic stainless steels against corrosion cracking*

15:40 – 16:00 Prof. Dr. Magda Lakatos Varsányi, Roland Murányi, Ferenc Hajdú: *Pulse plating of nanostructured soft magnetic nickel-iron alloy for high frequency applications*

16:00 – 16:20 Prof. Dr. Károly Jármái: *Optimum design of welded structures considering the costs of surface preparation and painting*

16:20 – 16:40 Pavel Kůs, Janka Mihoková, Kateřina Vonková, Šárka Bártová, Vladěna Šmejdivá: *A prospective Hot Functional Test (HFT) in nuclear power plant Mochovce 3 and Unit 4*

Pavel Kůs, , Šárka Bártová, Kateřina Vonková, Vladěna Šmejdivá: *The use of membrane processes (NF and RO) in nuclear power plant (poster presentation)*

16:40 – 17:00 Prof. Dr. János Lukács: Title to be announced

17:00 – 17:20 To be announced

--- Cultural programme and gala dinner ---



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4. PLANT VISIT (on the THIRD day, i.e. 17 September, 2015)

The site of the PLANT VISIT: MOL Group Hungarian Oil and Gas Co. Danube Refinery (H-2443 Százhalombatta, Olajmunkás street 2.)

In the 1st hour of the Plant Visit: Presentation in the VIP Room about the Corrosion Protection Activities of the MOL Group at its European and Asian divisions/sites

In the 2nd hour of the Plant Tour: Visiting the site of an ongoing maintenance work for corrosion protection of a container

In the 3rd hour of the Plant Tour: Visiting the Corrosion and Scientific Centre of the MOL Danube Refinery

5. The venue of HUNGAROKORR 2015: Hungarian – Slovakian Information Center

Due to major construction works close to the original site (Millenáris Budapest) we have decided to change the meeting venue. The new address of the events is: H-2045 Törökbálint, Kazinczy Ferenc street 124/B., (GPS coordinates: 47.446941, 18.895429), which, however, can be reached easily from even the centre of Budapest.

Contacts:

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