

# EURO CORR 2022

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## EUROCORR 2022 European Corrosion Congress

Corrosion in a Changing World –  
Energy, Mobility, Digitalization

**PROGRAMME**

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## Corrosion and Scale Inhibition (WP 1)

- P 1.01 **Green corrosion inhibitors – Development of eco-friendly products of low cost from industrial waste.**  
J. Rocha<sup>1</sup>; M. V. Casanova Monteiro<sup>1</sup>; E. D'Elia<sup>1</sup>; J. da Cunha Ponciano Gomes<sup>1</sup>; <sup>1</sup> Federal University of Rio de Janeiro, Rio de Janeiro/BR
- P 1.02 **Advanced sensor based on EIS for continuous corrosion monitoring in an Icelandic geothermal power plant**  
L. Freire<sup>1</sup>; I. Ezpeleta<sup>1</sup>; J. Sánchez<sup>2</sup>; A. Aimen<sup>1</sup>; <sup>1</sup> AIMEN, Porriño/E

## Corrosion by Hot Gases and Combustion Products (WP3)

- P 2.01 **Cyclic oxidation resistance of IN625 produced by Laser Beam Melting, influence of the building direction**  
S. Mercier<sup>1</sup>; T. Ghenot<sup>1</sup>; A. Morel<sup>1</sup>; D. Boivin<sup>1</sup>; E. Rimot<sup>1</sup>; C. Rio<sup>1</sup>; <sup>1</sup> ONERA, Université Paris Saclay, Chatillon/F
- P 2.02 **A systematic study of the effect of the nickel and cobalt respective proportions in M–30Cr alloys (M = Ni and/or Co) on their behavior in oxidation at high temperature**  
A. Padox<sup>1</sup>; M. Jollain<sup>1</sup>; L. Aranda<sup>2</sup>; P. Berthod<sup>2</sup>; <sup>1</sup> University of Lorraine, Vandoeuvre-lès-Nancy/F; <sup>2</sup> University of Lorraine, Nancy/F
- P 2.03 **Exploration of the high temperature oxidation of the M–30Cr alloys (M = Co and/or Ni) containing tantalum in absence of carbon**  
F. Schumacher<sup>1</sup>; Y. Ait-Meddour<sup>2</sup>; L. Aranda<sup>3</sup>; P. Berthod<sup>4</sup>; <sup>1</sup> University of Lorraine, Vandoeuvre-lès-Nancy/F; <sup>2</sup> University of Lorraine, Vandoeuvre-lès-Nancy/F; <sup>3</sup> University of Lorraine, Nancy/F; <sup>4</sup> Université de Lorraine, Nancy/F
- P 2.04 **Characteristics and resistance against spallation of the oxides formed at high temperature on {Co, Ni}–based chromium–rich cast alloys containing titanium**  
S. Ozouaki Wora<sup>1</sup>; P. Berthod<sup>2</sup>; <sup>1</sup> University of Lorraine, Vandoeuvre-lès-Nancy/F; <sup>2</sup> Université de Lorraine, Nancy/F
- P 2.05 **Oxidized states of chromium–rich {Ni,Co}–based alloys rich in tantalum to form TaC carbides after exposure at 1250°C in air**  
J. Gomis<sup>1</sup>; P. Berthod<sup>2</sup>; <sup>1</sup> University of Lorraine, Vandoeuvre-lès-Nancy/F; <sup>2</sup> Université de Lorraine, Nancy/F

## Nuclear Corrosion (WP4)

- P 3.01 **Microstructural investigation of oxide films on Alloy 182 weld metal formed under BWR zinc water chemistry**  
A. Mackiewicz<sup>1</sup>; S. Ritter<sup>1</sup>; K. Chen<sup>1</sup>; H. Seifert<sup>1</sup>; S. Virtanen<sup>2</sup>; <sup>1</sup> Paul Scherrer Institut (PSI), Villigen/CH; <sup>2</sup> Friedrich-Alexander University Erlangen-Nürnberg, Erlangen/D
- P 3.02 **Slow strain rate testing of Fe-10Cr-4Al ferritic steel in liquid lead and lead-bismuth eutectic**  
C. Petersson<sup>1</sup>; <sup>1</sup> royal institute of technology KTH, Stockholm/S
- P 3.03 **Effect of oxidants produced by radiolysis on aqueous corrosion of iron**  
T. Ota<sup>1</sup>; S. Ajito<sup>2</sup>; T. Hojo<sup>2</sup>; M. Koyama<sup>2</sup>; E. Akiyama<sup>2</sup>; <sup>1</sup> Tohoku University, Aoba Ward, Sendai City, Miyagi /J; <sup>2</sup> Tohoku University, Sendai City/J
- P 3.04 **Corrosion assessment for the evaluation of the long-term integrity of containers in crystalline rock**  
C. Stephan-Scherb<sup>1</sup>; J. Eckel<sup>2</sup>; T. Fass<sup>2</sup>; T. Weyand<sup>2</sup>; C. Dietl<sup>1</sup>; A. von Oertzen<sup>1</sup>; L. Maerten<sup>1</sup>; <sup>1</sup> Bundesamt für die Sicherheit der nuklearen Entsorgung, Berlin/D; <sup>2</sup> Bundesamt für die Sicherheit der nuklearen Entsorgung, Köln/D

## Environment Sensitive Fracture (WP 5)

- P 4.01 **Failure Analysis of a High Pressure Temperature Turbine Blade of an Aircraft Jet Engine**  
M. García-Martínez<sup>1</sup>; J. del Hoyo Gordillo<sup>1</sup>; M. Valles González<sup>1</sup>; A. Pastor Muro<sup>1</sup>; B. González Caballero<sup>1</sup>; <sup>1</sup> INTA, Torrejón de Ardoz (Madrid)/E
- P 4.02 **Design and experimental validation of hydrogen trapping features in Ni model alloys**  
A. Prasad<sup>1</sup>; A. Dreano<sup>2</sup>; L. Couturier<sup>1</sup>; F. Christien<sup>2</sup>; F. Tancret<sup>1</sup>; <sup>1</sup> Nantes Université, Institut des Matériaux de Nantes – Jean Rouxel (IMN), CNRS UMR, Nantes/F; <sup>2</sup> Mines Saint-Etienne, Univ Lyon, CNRS, UMR, Saint-Etienne/F

## Corrosion Mechanisms, Methods and Modelling (WP 6 &amp; 8)

- P 5.01 **Integrated corrosion resistance index for biomaterials**  
C. Dias dos Reis Barros<sup>1</sup>; E. Janzen Kassab<sup>1</sup>; J. Ponciano Gomes<sup>1</sup>; <sup>1</sup> UFRJ, Rio de Janeiro/BR
- P 5.02 **Use of modified NiTi alloys for biomedical applications**  
E. Kassab<sup>1</sup>; C. Dias dos Reis Barros<sup>1</sup>; J. C. P. Gomes<sup>1</sup>; <sup>1</sup> Federal University of Rio de Janeiro, Rio de Janeiro/BR
- P 5.03 **A stochastic model for high-temperature corrosion in nickel-based superalloys.**  
F. Antonelli<sup>1</sup>; S. Mori<sup>1</sup>; J. Sumner<sup>1</sup>; R. Wells<sup>2</sup>; N. Chapman<sup>2</sup>; N. Simms<sup>1</sup>; <sup>1</sup> University of Cranfield, Cranfield, Bedfordshire./UK; <sup>2</sup> Siemens Energy, Lincoln/UK
- P 5.04 **Effect of Anodic Behavior of Al Alloy on Galvanic Corrosion Resistance of AA6016/Steel Couple in Chloride Environment**  
M. Kadowaki<sup>1</sup>; H. Katayama<sup>1</sup>; M. Yamamoto<sup>2</sup>; <sup>1</sup> National Institute for Materials Science (NIMS), Tsukuba/J; <sup>2</sup> Tohoku University, Sendai/J

- P 5.05 **Comparison of Corrosion Behavior of Two Different Aluminium Alloys for Lid Foil from Industrial Point of View**  
A. Kabil<sup>1</sup>; E. Harputlu<sup>1</sup>; H. Mollaoglu Altuner<sup>1</sup>; <sup>1</sup> Assan Alüminyum San. ve Tic. A.Ş., Kocaeli/TR
- P 5.06 **Kinetics of the oxygen reduction reaction on passive films formed Fe-Cr alloy**  
Y. Wang<sup>1</sup>; D. Blackwood<sup>1</sup>; M. Ng<sup>2</sup>; <sup>1</sup> National University of Singapore, Singapore/SGP; <sup>2</sup> Institute of High Performance Computing, Agency for Science, Technology and Research, Singapore, Singapore/SGP
- P 5.07 **Corrosion performance of 4xxx aluminium alloy with high scrap content for construction applications**  
P. Alexopoulos<sup>1</sup>; A. Flampouri<sup>1</sup>; M. Koklioti<sup>1</sup>; E. Aivazoglou<sup>1</sup>; T. Tzevelekou<sup>1</sup>; G. Kalkantzis<sup>2</sup>; G. Ziogas<sup>2</sup>; A. Mavroudis<sup>2</sup>; <sup>1</sup> ELKEME - Hellenic Research Centre for Metals S.A., Oinofyta/GR; <sup>2</sup> Elval, Aluminium Rolling Division of ElvalHalcor S.A., Oinofyta/GR
- P 5.08 **Study of metallic-aqueous interfaces from a multiscale approach and its application to corrosion inhibition**  
E. de Freitas Martins<sup>1</sup>; I. Cole<sup>2</sup>; P. Ordejón<sup>3</sup>; <sup>1</sup> RMIT University, Barcelona/E; <sup>2</sup> RMIT University, Melbourne/AUS; <sup>3</sup> Catalan Institute of Nanoscience and Nanotechnology, Barcelona/E
- P 5.09 **Construction of a data driven corrosion risk model as a novel method for corrosion management**  
W. Witteveen<sup>1</sup>; J. Horvath<sup>1</sup>; K. De Baere<sup>1</sup>; S. Gelareh<sup>2</sup>; G. Potters<sup>1</sup>; J. Tacq<sup>3</sup>; <sup>1</sup> Antwerp Maritime Academy, Antwerp/B; <sup>2</sup> Université d'Artois, Béthune/F; <sup>3</sup> Sarris, Zwijnaarde/B
- P 5.10 **Corrosion inhibitor structures for automotive steel - A computational chemistry perspective**  
S. Jeschke<sup>1</sup>; I. Cole<sup>2</sup>; P. Eiden<sup>2</sup>; R. Mishra<sup>2</sup>; P. Deglmann<sup>2</sup>; J. Gorges<sup>2</sup>; C. Rein<sup>2</sup>; P. Keil<sup>3</sup>; <sup>1</sup> RMIT University, Melbourne/AUS; <sup>2</sup> BASF SE, Ludwigshafen am Rhein/D; <sup>3</sup> BASF Coatings GmbH, Muenster/D
- P 5.11 **A multiscale approach to bias dependent electrochemical processes at metallic-aqueous interfaces**  
J. Castillo Robles<sup>1</sup>; E. de Freitas Martins<sup>1</sup>; P. Ordejón<sup>2</sup>; I. Cole<sup>3</sup>; <sup>1</sup> RMIT University, Barcelona/E; <sup>2</sup> ICN2, Barcelona/E; <sup>3</sup> RMIT University, Melbourne/AUS
- P 5.12 **Interpretation of ENA data from accelerated exposure of modified ZRP based on modelling of coating electrical properties as related to corrosion of the substrate**  
B. Eremias<sup>1</sup>; L. Mindos<sup>1</sup>; L. Turek<sup>1</sup>; <sup>1</sup> SVUOM Ltd., Prague/CZ
- P 5.13 **Advances in understanding the anomalous alkalization of the electrolyte during the anodic polarization of Mg**  
R. Montoya<sup>1</sup>; A. Ortiz<sup>2</sup>; J. Genescá<sup>2</sup>; <sup>1</sup> UNAM, N.L. Mexico/MEX; <sup>2</sup> UNAM, APODACA/MEX
- P 5.14 **Effect of delayed inhibitor supply on the local degradation and protection kinetics of IMs in AA2024-T3**  
M. Mopon<sup>1</sup>; S. Garcia<sup>1</sup>; <sup>1</sup> TU Delft, Delft/NL
- P 5.15 **Improving phase-field models to simulate the aqueous corrosion phenomena**  
J. Amador<sup>1</sup>; J. Vega<sup>1</sup>; F. Varas Merida<sup>2</sup>; M. Lekka<sup>1</sup>; E. García-Lecina<sup>1</sup>; <sup>1</sup> CIDETEC, San Sebastian/E; <sup>2</sup> Universidad Politecnica de Madrid, Madrid/E
- P 5.16 **Numerical contribution in DCVG method for a reliable and quantified detection of coating defects on buried pipelines**  
D. Garcia<sup>1</sup>; E. Sassine<sup>1</sup>; S. Deharo<sup>1</sup>; R. François<sup>1</sup>; C. Barthe<sup>2</sup>; <sup>1</sup> CORROHM, Ramonville-Saint-Agne/F; <sup>2</sup> Trapil, Poissy/F
- P 5.17 **Possibilities and Recent Advances in Respirometric Monitoring of Corrosion Rates**  
M. Strelb<sup>1</sup>; M. Bruns<sup>1</sup>; S. Virtanen<sup>1</sup>; <sup>1</sup> Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Erlangen/D
- P 5.18 **Effects of Microalloying on the local corrosion processes in High-Manganese Twinning-Induced Plasticity Steel**  
T. Olugbade<sup>1</sup>; C. Das<sup>1</sup>; A. Wetzel<sup>1</sup>; J. Witt<sup>1</sup>; O. Ozcan<sup>1</sup>; <sup>1</sup> Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin/D
- P 5.19 **Effect of passivation after additive manufacturing of titanium alloy on corrosion resistance and protein binding**  
S. Nikpour<sup>1</sup>; <sup>1</sup> Western University of Ontario, London/CDN
- P 5.20 **Corrosion behavior of Al-based structurally complex alloys**  
K. Młynarek-Żak<sup>1</sup>; R. Babilas<sup>1</sup>; <sup>1</sup> Silesian University of Technology, Gliwice/PL
- P 5.21 **Metal Release of CoCrMo Alloy in Protein-Rich Solutions–Effect of Sliding and Manufacturing Process**  
Z. Wei<sup>1</sup>; V. Romanovski<sup>2</sup>; L. Filho<sup>3</sup>; C. Persson<sup>3</sup>; S. Sanaei<sup>4</sup>; M. Atapour<sup>4</sup>; Y. Hedberg<sup>1</sup>; <sup>1</sup> University of Western Ontario, London/CDN; <sup>2</sup> University of Virginia, Charlottesville/USA; <sup>3</sup> Uppsala University, Uppsala/S; <sup>4</sup> Isfahan University of Technology, Isfahan/IR
- P 5.22 **Corrosion resistance of rapid solidified Al<sub>85</sub>(Ni,Fe,Cu)<sub>10</sub>Y<sub>5</sub> alloys in 3.5% NaCl solution**  
R. Babilas<sup>1</sup>; K. Młynarek-Żak<sup>1</sup>; A. Radoń<sup>1</sup>; <sup>1</sup> Silesian University of Technology, Gliwice/PL
- P 5.23 **Low Voltage SEM/EDS-analyses of 304 and 347 Stainless Steels Oxidized at 600-800 °C**  
J. Juhanoja<sup>1</sup>; T. Nguyen<sup>1</sup>; <sup>1</sup> Top Analytica Ltd, Turku/FIN
- P 5.24 **Influence of phosphorus segregation and grain boundary misorientation on intergranular corrosion of α-Fe**  
K. Tojima<sup>1</sup>; S. Ajito<sup>1</sup>; Y. Zhang<sup>1</sup>; T. Hojo<sup>1</sup>; G. Miyamoto<sup>1</sup>; M. Koyama<sup>1</sup>; T. Furuhashi<sup>1</sup>; E. Akiyama<sup>1</sup>; <sup>1</sup> Tohoku University, Katahira, Aoba-ku, Sendai/J
- P 5.25 **Modeling of Electrochemical Oxide Film Growth**  
I. Bösing<sup>1</sup>; J. Thöming<sup>1</sup>; F. La Mantia<sup>1</sup>; <sup>1</sup> University of Bremen/D

Marine Corrosion (WP 9)

- P 6.01 **The effect of dissolved CO<sub>2</sub> on SCC of pipeline steel in simulated marine environments**  
S. Abubakar<sup>1</sup>; S. Mori<sup>1</sup>; J. Sumner<sup>1</sup>; <sup>1</sup> Cranfield University, Bedford/UK
- P 6.02 **Corrosion testing in a laboratory container - Corrosion testing with artificial seawater and sediment**  
K. Zekhnini<sup>1</sup>; S. Grabowski<sup>1</sup>; Q. Le<sup>1</sup>; A. Burkert<sup>1</sup>; M. Babutzka<sup>1</sup>; <sup>1</sup> Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin/D
- P 6.03 **Rapid assessment of corrosion susceptibility of mild steel in simulated splash zone condition**  
V. Kalikivayji<sup>1</sup>; K. Mondal<sup>2</sup>; S. Singh<sup>2</sup>; <sup>1</sup> Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India/IND; <sup>2</sup> Indian Institute of Technology Kanpur, Kanpur/IND
- P 6.04 **Internal corrosion studies of equipment and pipings involved in offshore Power-to-X (PtX) platforms**  
S. Sankaran<sup>1</sup>; W. Fürbeth<sup>1</sup>; <sup>1</sup> DECHEMA - Forschungsinstitut, Frankfurt am Main/D
- P 6.05 **Investigation of corrosion of carbon steel under insulation**  
J. Edet<sup>1</sup>; T. Green<sup>2</sup>; S. Roy<sup>2</sup>; <sup>1</sup> University of Strathclyde, Montrose Street, Glasgow/UK; <sup>2</sup> University of Strathclyde, Glasgow/UK

Microbial Corrosion (WP 10)

- P 7.01 **Microbiologically influenced corrosion of steel sheet pilings in a Dutch harbor- fast corrosion and unexpected mass loss**  
N. Noël-Hermes<sup>1</sup>; M. Salta<sup>1</sup>; <sup>1</sup> Endures B.V., Den Helder/NL
- P 7.02 **Hierarchical surface texturing in stainless steel as an alternative to prevent biocorrosion in marine environments**  
J. Castillo Lagos<sup>1</sup>; E. Ramos-Moore<sup>2</sup>; G. Pizarro P.<sup>2</sup>; <sup>1</sup> Pontificia Universidad Católica de Chile, La Florida/RCH; <sup>2</sup> Pontificia Universidad Católica de Chile, Santiago/RCH
- P 7.03 **Pitting corrosion of 316L stainless steel caused by SRB's in DGR environment**  
R. Bureš<sup>1</sup>; J. Stoužil<sup>1</sup>; V. Hlaváčková<sup>2</sup>; D. Dobrev<sup>3</sup>; <sup>1</sup> University of Chemistry and Technology Prague/CZ; <sup>2</sup> Technical University of Liberec/CZ; <sup>3</sup> ÚJV, Řež/CZ
- P 7.04 **The effects of Calcigel bentonite naturally occurring microorganisms on corrosion of cast iron**  
V. Sushko<sup>1</sup>; N. Matschiavelli<sup>1</sup>; T. Wei<sup>1</sup>; T. Stumpf<sup>1</sup>; A. Cherkouk<sup>1</sup>; <sup>1</sup> Helmholtz-Zentrum Dresden - Rossendorf (HZDR) , Dresden/D
- P 7.05 **Intersectoral Bridging in the Fragmented Field of Microbiologically Influenced Corrosion**  
J. Knisz<sup>1</sup>; J. Stoužil<sup>2</sup>; <sup>1</sup> University of Public Service, Baja/H; <sup>2</sup> University of Chemistry and Technology, Prague/CZ
- P 7.06 **Anaerobic microbial corrosion of carbon steel under conditions relevant for deep geological repository of nuclear waste**  
R. Shrestha<sup>1</sup>; T. Černoušek<sup>2</sup>; J. Stoužil<sup>3</sup>; H. Kovářová<sup>4</sup>; K. Sihelská<sup>5</sup>; R. Špánek<sup>6</sup>; A. Ševců<sup>7</sup>; J. Steinová<sup>8</sup>; <sup>1</sup> Technical University of Liberec, Liberec/CZ; <sup>2</sup> Research Center Řež, Husinec-Řež/CZ; <sup>3</sup> University of Chemistry and Technology, Prague/CZ; <sup>4</sup> Research Center Řež , Husinec-Řež/CZ; <sup>5</sup> Research Center Řež , Husinec-Řež/CZ; <sup>6</sup> Technical University of Liberec, Liberec/CZ; <sup>7</sup> Technical University of Liberec , Liberec/CZ; <sup>8</sup> Technical University of Liberec and Charles University in Prague, Liberec, Prague/CZ

Corrosion of Steel in Concrete (WP11)

- P 8.01 **Corrosion of embedded steel in alkaline activated mortars manufactured from slag**  
A. Bautista<sup>1</sup>; S. Shagñay<sup>1</sup>; I. Ramon<sup>1</sup>; F. Velasco<sup>1</sup>; M. Torres-Carrasco<sup>1</sup>; <sup>1</sup> Universidad Carlos III de Madrid, Leganes/E
- P 8.02 **Licorice extract as corrosion inhibitor in mortar**  
R. Naderi<sup>1</sup>; A. Bautista<sup>2</sup>; S. Shagñay<sup>2</sup>; M. Torres-Carrasco<sup>2</sup>; F. Velasco<sup>2</sup>; <sup>1</sup> University of Tehran, Tehran/IR; <sup>2</sup> Universidad Carlos III de Madrid, Leganes/E
- P 8.03 **Impact of electromigration treatment on chloride binding properties of cement**  
M. Reiser<sup>1</sup>; M. Kouril<sup>2</sup>; F. Bayer<sup>1</sup>; S. Msallamova<sup>1</sup>; <sup>1</sup> University of Chemistry and Technology, Prague, Prague/CZ; <sup>2</sup> University of Chemistry and Technology, Praha/CZ
- P 8.04 **Investigation of the effect of fuel ageing and corrosion in oxymethylene ether (OME)**  
M. Irawan-Pieperhoff<sup>1</sup>; <sup>1</sup> OWI Science for Fuels gGmbH, Herzogenrath/D
- P 8.05 **Application of a reinforcement anode on an historical building**  
X. Hallopeau<sup>1</sup>; E. Marie-Victoire<sup>2</sup>; C. Annede-Villeau<sup>3</sup>; <sup>1</sup> SECCO Corrosion Consulting, Vélizy-Villacoublay/F; <sup>2</sup> Sorbonne Universités, Champs-sur-Marne/F; <sup>3</sup> Freyssinet International & Cie, Rueil-Malmaison/F

Corrosion in Oil and Gas Production (WP 13)

- P 9.01 **Appraising the effect of cooling rates during solutioning on the long term corrosion and pitting resistance of SLM Inconel 718 alloy**  
M. Siddiqui<sup>1</sup>; M. Abdelgadir<sup>1</sup>; A. Adesina<sup>1</sup>; ; <sup>1</sup> King Fahd University of Petroleum and Minerals, Dhahran/SAR
- P 9.02 **Effects of surface roughness on anaerobic marine biofilm formation and microbiologically-influenced corrosion of UNS G10180 carbon steel**  
L. Jones<sup>1</sup>; M. Salta<sup>2</sup>; T. Skovhus<sup>3</sup>; K. Thomas<sup>4</sup>; T. Illson<sup>4</sup>; J. Wharton<sup>1</sup>; J. Webb<sup>1</sup>; <sup>1</sup> University of Southampton, Southampton/UK; <sup>2</sup> University of Portsmouth, Portsmouth/UK; <sup>3</sup> VIA University College, Horsens/DK; <sup>4</sup> DNV – Energy Systems, Loughborough/UK
- P 9.03 **Effect of building orientation on corrosion kinetics and mechanism of 3D printed AlSi10Mg alloy in saline medium**  
A. Meroufel<sup>1</sup>; C. Linders<sup>1</sup>; A. Gordon<sup>1</sup>; <sup>1</sup> RISE, Kista/S
- P 9.04 **Anticorrosive and Persistency Properties of Arabian Crude Oils**  
L. AlSharif<sup>1</sup>; C. Canto Maya<sup>1</sup>; <sup>1</sup> Saudi Aramco Oil Company, Dhahran/SAR
- P 9.05 **Optimization of Extraction Conditions for Production of Halophyte-based Biocides for Microbiologically Influenced Corrosion (MIC) Mitigation**  
J. Stein<sup>1</sup>; T. Chaturvedi<sup>1</sup>; T. Skovhus<sup>2</sup>; M. Thomsen<sup>1</sup>; <sup>1</sup> Aalborg University, Esbjerg/DK; <sup>2</sup> VIA University College, Horsens/DK
- P 9.06 **Acoustic Emission Sensing for Early Damage Detection and Localization In Pressurized Vessels**  
M. Alerwi<sup>1</sup>; C. Canto Maya<sup>2</sup>; <sup>1</sup> Saudi Aramco, Dhahran Saudi Arabia/SAR; <sup>2</sup> Saudi Aramco, Dharan/SAR
- P 9.07 **Mechanistic understanding of the effect of initial microstructure of low-alloy carbon steel on its CO<sub>2</sub>-corrosion resistance in simulated formation water chemistry**  
K. Gupta<sup>1</sup>; S. Haratian<sup>1</sup>; A. Larsson<sup>2</sup>; G. Abbondanza<sup>2</sup>; E. Lundgren<sup>2</sup>; R. Ambat<sup>1</sup>; <sup>1</sup> Technical University of Denmark, Kgs. Lyngby/DK; <sup>2</sup> Lund University, Lund/S
- P 9.08 **The influence of hydrogen sulfide concentration on the corrosion and hydrogenation of steel 07Cr18Ni6**  
M. Khoma<sup>1</sup>; S. Halaichak<sup>1</sup>; M. Chuchman<sup>1</sup>; C. Vasyliv<sup>1</sup>; B. Datsko<sup>1</sup>; N. Ratska<sup>1</sup>; H. Pokhmurska<sup>4</sup>; <sup>1</sup> Karpenko Physico-Mechanical Institute of the NAS of Ukraine, Lviv/UA; <sup>4</sup> TU Chemnitz /D
- P 9.09 **Influence of CeCl<sub>3</sub> on the inhibitory activity of imidazoline-based corrosion inhibitor**  
G. Bilić<sup>1</sup>; T. Borko<sup>2</sup>; <sup>1</sup> University of Zagreb, Faculty of Mining, Geology and Petroleum Engineering, Zagreb/HR; <sup>2</sup> INA, d.d., Zagreb/HR
- P 9.10 **Influence of Micro-Alloying Elements Upon the CO<sub>2</sub> Preferential Weld Corrosion Rate of Carbon Steel**  
J. L. Cardoso<sup>1</sup>; Z. Panossian<sup>2</sup>; B. B. Andrade<sup>1</sup>; M. Henrique<sup>1</sup>; R. S. Marques<sup>1</sup>; P. Zumpano Jr<sup>3</sup>; I. P. Baptista<sup>4</sup>; <sup>1</sup> FIPT Foundation for support of the Institute for Technological Research, São Paulo/BR; <sup>2</sup> IPT Institute for Technological Research, São Paulo/BR; <sup>3</sup> Petrobras, São José dos Campos/BR; <sup>4</sup> Petrobras, Rio de Janeiro/BR
- P 9.11 **Q-BI – Purple Yams Waste (Ipomoea Batatas) as Organic Corrosion Inhibitors for Carbon Steel in Oil and Gas Industry: Substitute of Chemical Compound**  
G. Putra<sup>1</sup>; <sup>1</sup> Pertamina , Jaarta /RI

Coatings (WP 14)

- P 10.01 **DIGICOAT: EIS and FTIR data analysis for protective coatings**  
A. Gutierrez<sup>1</sup>; A. Ruesca<sup>1</sup>; <sup>1</sup> Survey and Foresee Technologies SLL, Las Palmas de Gran Canaria/E
- P 10.02 **Control of the degradation rate and corrosion resistance of ZK60 magnesium alloy by coating via HiPIMS and SolGel**  
A. Claver Alba<sup>1</sup>; I. Zalakin<sup>1</sup>; I. Fernández<sup>2</sup>; J. Santiago<sup>2</sup>; I. Quintana<sup>3</sup>; L. Mendizabal<sup>3</sup>; J. García<sup>1</sup>; <sup>1</sup> Institute for Advanced Materials and Mathematics (INAMAT2), Universidad Pública de Navarra (UPNA), Pamplona/E; <sup>2</sup> Nano4Energy SL, Madrid/E; <sup>3</sup> Fundación Tekniker, Eibar/E
- P 10.03 **Evolution in microstructure, wear, corrosion, and tribocorrosion behavior of Mo- containing high-entropy alloy coatings fabricated by laser**  
Y. Fu<sup>1</sup>; C. Du<sup>1</sup>; X. Li<sup>1</sup>; <sup>1</sup> University of Science and Technology Beijing, Beijing/CN
- P 10.04 **Flash Plasma Electrolytic Oxidation of an Additively Manufactured Al-Si alloy**  
M. Mohedano<sup>1</sup>; E. Lopez<sup>1</sup>; R. Del Olmo<sup>2</sup>; E. Matykina<sup>1</sup>; R. Arrabal<sup>1</sup>; <sup>1</sup> University Complutense of Madrid, Madrid/E; <sup>2</sup> Military University of Technology, Warsaw/PL
- P 10.06 **Development of an innovative quasi-ceramic layer for the hot forming of galvanized medium manganese steels with variable strengths**  
A. Anthes<sup>1</sup>; W. Fürbeth<sup>1</sup>; <sup>1</sup> DECHEMA - Forschungsinstitut, Frankfurt am Main/D
- P 10.07 **Increasing the corrosion resistance of AZ91 magnesium alloy by plasma electrolytic oxidation**  
M. Štrbák<sup>1</sup>; B. Hadzima<sup>2</sup>; J. Sovík<sup>3</sup>; <sup>1</sup> University of Žilina, Žilina/SK; <sup>2</sup> University of Žilina Research Centre, Žilina/SK; <sup>3</sup> University of Žilina, Martin/SK

- P 10.08 **Enhancing corrosion resistance on magnesium alloy EV31 by PEO process**  
V. Knap<sup>1</sup>; B. Hadzima<sup>2</sup>; M. Štrbák<sup>2</sup>; V. Obertová<sup>2</sup>; <sup>1</sup> University of Žilina, Příbovce/SK; <sup>2</sup> University of Žilina, Žilina/SK
- P 10.09 **Zr-Mo-Mn Conversion Coating as a Sealing Option to AA2024-T3 Anodized Layers**  
J. Salles Pinheiro<sup>1</sup>; J. Zoppas Ferreira<sup>1</sup>; <sup>1</sup> UFRGS, Porto Alegre/BR
- P 10.10 **Plasma Electrolytic Oxidation (PEO) for Production of High-Performance Coatings on Ti-Al Intermetallic Compounds**  
K. Munassar<sup>1</sup>; B. Mingo<sup>1</sup>; A. Yerokhin<sup>2</sup>; <sup>1</sup> University of Manchester, Manchester/UK; <sup>2</sup> University of Manchester, Manchester/UK
- P 10.11 **ZnO-based nanostructured electrodes for biosensors: Corrosion behavior in Ringer's physiological solution**  
K. Aleksić<sup>1</sup>; A. Stanković<sup>1</sup>; I. Stojković Simatović<sup>2</sup>; S. Marković<sup>1</sup>; <sup>1</sup> Serbian Academy of Sciences and Arts, Belgrade/SRB; <sup>2</sup> University of Belgrade, Belgrade/SRB
- P 10.12 **Fabrication of Novel Hybrid Sol-Gel/Urethane Coatings for the Protection of Mild Steel Substrate against Corrosion in the Saline Medium**  
R. Suleiman<sup>1</sup>; B. Alkhuraim<sup>1</sup>; <sup>1</sup> King Fahd University of Petroleum & Minerals (KFUPM), Dhahran/SAR
- P 10.13 **Sealing of Anodized Aluminum Alloy by Acrylic Acid Polymerization**  
A. Dąbrowski<sup>1</sup>; Z. Buczek<sup>1</sup>; <sup>1</sup> Łukasiewicz Research Network, Warsaw/PL
- P 10.14 **Physical and tribological properties of infrared dried coatings**  
I. Cindrić<sup>1</sup>; I. Stojanović<sup>1</sup>; L. Turkalj<sup>1</sup>; I. Juraga<sup>1</sup>; D. Rakela Ristevski<sup>2</sup>; <sup>1</sup> Faculty of Mechanical Engineering and Naval Architecture, Zagreb/HR; <sup>2</sup> Končar Steel Structures Inc., Zagreb/HR
- P 10.15 **Influence of Hydrogel Coatings on Corrosion and Fatigue of Iron in Simulated Body Fluid**  
J. Huang<sup>1</sup>; M. Voigt<sup>1</sup>; S. Wackenrohr<sup>2</sup>; C. Ebbert<sup>1</sup>; A. Keller<sup>1</sup>; H. Maier<sup>2</sup>; G. Grundmeier<sup>1</sup>; <sup>1</sup> Paderborn University, Paderborn/D; <sup>2</sup> Leibniz Universität Hannover, Garbsen/D
- P 10.16 **Efficient coating process using robots and water-based coating material**  
Š. Jurišić<sup>1</sup>; I. Stojanović<sup>1</sup>; V. Šimunović<sup>1</sup>; M. Kurtela<sup>1</sup>; V. Alar<sup>1</sup>; M. Bilméz<sup>2</sup>; <sup>1</sup> Faculty of Mechanical Engineering and Naval Architecture, Zagreb/HR; <sup>2</sup> Ember Kamin, Velika/HR
- P 10.17 **Self-assembled monolayers of phosphonic acids for improved bronze protection by polyurethane coating**  
N. Carek<sup>1</sup>; D. Mikic<sup>1</sup>; A. Kapitanovic<sup>1</sup>; H. Otmacic Curkovic<sup>1</sup>; <sup>1</sup> Faculty of Chemical Engineering and Technology, University of Zagreb/HR
- P 10.18 **Poly-aminoindoles as alternative coatings against corrosion: Electrochemical study in simulated seawater**  
E. Castañeda<sup>1</sup>; J. Armijo<sup>1</sup>; I. Vargas<sup>1</sup>; <sup>1</sup> Pontificia Universidad Católica de Chile, Santiago/RCH
- P 10.19 **The impact of bioactive coatings on bone implants corrosion**  
D. Bjelić<sup>1</sup>; M. Finšgar<sup>1</sup>; <sup>1</sup> Faculty of chemistry and chemical engineering, Maribor/SLO
- P 10.20 **Modified epoxy coatings on cast iron**  
M. Kurtela<sup>1</sup>; V. Šimunović<sup>1</sup>; V. Alar<sup>1</sup>; M. Samardžija<sup>2</sup>; <sup>1</sup> Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Zagreb/HR; <sup>2</sup> Faculty of Mining-Geology-Petroleum Engineering, University of Zagreb, Zagreb/HR
- P 10.21 **Assessment of the Antibiofilm Performance of Chitosan-Based Surfaces in Marine Environments**  
M. Lima<sup>1</sup>; L. Gomes<sup>1</sup>; M. Romeu<sup>1</sup>; J. Valcarcel<sup>2</sup>; J. Vázquez<sup>2</sup>; M. Cerqueira<sup>3</sup>; L. Pastrana<sup>3</sup>; A. Bourbon<sup>3</sup>; E. Jong<sup>4</sup>; J. Sjollem<sup>4</sup>; F. Mergulhão<sup>1</sup>; <sup>1</sup> Faculty of Engineering of University of Porto, Porto/P; <sup>2</sup> Instituto de Investigaciones Marinas, Vigo/E; <sup>3</sup> International Iberian Nanotechnology Laboratory, Braga/P; <sup>4</sup> University Medical Center Groningen, Groningen/NL
- P 10.22 **An effective poly (ethylene) oxide sol-gel coating reinforced with SiO<sub>2</sub> nanoparticles to enhance the corrosion resistance of PEO-coated AZ<sub>31</sub>B Mg alloys**  
E. Merino Abad<sup>1</sup>; A. Durán<sup>1</sup>; Y. Castro<sup>1</sup>; <sup>1</sup> Consejo Superior de Investigaciones Científicas (CSIC), Madrid/E
- P 10.23 **Ultrasonically enhanced cerium based conversion chemistry for the corrosion protection of aluminum alloys**  
L. Ruhm<sup>1</sup>; P. Vieth<sup>1</sup>; G. Grundmeier<sup>1</sup>; <sup>1</sup> Paderborn University, Paderborn/D
- P 10.24 **Cost effective sealing of porous PEO coating on AZ<sub>31</sub> magnesium alloy by removable water and oil based preservatives**  
F. Pastorek<sup>1</sup>; M. Štrbák<sup>1</sup>; B. Hadzima<sup>1</sup>; J. Pastorková<sup>1</sup>; <sup>1</sup> University of Žilina, Žilina/SK
- P 10.25 **Effect of Laser Surface Melting on the Corrosion Resistance of Adhesive/Al 7075 Alloy Interfaces**  
P. Vieth<sup>1</sup>; C. Weinberger<sup>1</sup>; M. Tiemann<sup>1</sup>; G. Grundmeier<sup>1</sup>; <sup>1</sup> Universität Paderborn, Paderborn/D
- P 10.26 **Fabrication and characterisation of additive manufactured Ti<sub>6</sub>Al<sub>4</sub>V parts by laser powder bed fusion (L-PBF) technique**  
N. Godja<sup>1</sup>; <sup>1</sup> CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH, Wiener Neustadt/A
- P 10.27 **Hybrid PEO/sol-gel coatings loaded with Ce for corrosion protection of AA2024**  
E. Lopez<sup>1</sup>; R. Del Olmo<sup>2</sup>; M. Mohedano<sup>1</sup>; E. Matykina<sup>1</sup>; R. Arrabal<sup>1</sup>; <sup>1</sup> Universidad Complutense de Madrid, Madrid/E; <sup>2</sup> Military University of Technology, Warsaw/PL
- P 10.28 **Aluminium alloy corrosion inhibition by two-stage modified zeolite**  
S. Korniy<sup>1</sup>; I. Zin<sup>1</sup>; L. Kwiatkowski<sup>2</sup>; M. Danyliak<sup>1</sup>; O. Khlopyk<sup>1</sup>; <sup>1</sup> Karpenko Physico-Mechanical Institute of NAS of Ukraine, Lviv/UA; <sup>2</sup> Łukasiewicz Research Network - Institute of Precision Mechanics, Warsaw/PL

- P 10.29 **Effect of boron dispersion phase content on the microstructure and corrosion resistance of the Ni-B/B composite coatings**  
K. Skroban<sup>1</sup>; A. Gajewska-Midziatek<sup>1</sup>; G. Cieślak<sup>1</sup>; M. Gostomska<sup>1</sup>; T. Ciciświli<sup>1</sup>; E. Peško<sup>1</sup>; A. Kapuścińska<sup>1</sup>; M. Trzaska<sup>1</sup>; Z. Buczek<sup>2</sup>; <sup>1</sup> Łukasiewicz Research Network - Institute of Precision Mechanics, Warsaw/PL; <sup>2</sup> Łukasiewicz Research Network, Warsaw/PL

- P 10.30 **New waterborne zinc primers**  
U. Paszek<sup>1</sup>; <sup>1</sup> Polish Corrosion Society, Gdańsk/PL

Automotive Corrosion (WP 17)

- P 12.01 **Corrosion-induced hydrogen absorption and embrittlement of Ultra-high-strength steel with Zn-based coatings in neutral aqueous conditions**  
H. Bang<sup>1</sup>; J. Park<sup>1</sup>; Y. Park<sup>1</sup>; S. Jung<sup>2</sup>; S. Kim<sup>1</sup>; <sup>1</sup> Sunchon National University, Suncheon/ROK; <sup>2</sup> Hyundai Steel, Dangjin/ROK

Tribo-Corrosion (WP 18)

- P 13.01 **Improvement of the tribocorrosion properties of tungsten carbide (WC-Co) samples coated via PVD**  
J. García<sup>1</sup>; A. Claver Alba<sup>1</sup>; M. Marqués<sup>1</sup>; E. Almandoz<sup>2</sup>; J. Fernandez de Ara<sup>2</sup>; J. Fernández Palacio<sup>2</sup>; <sup>1</sup> Institute for Advanced Materials and Mathematics (INAMAT2), Universidad Pública de Navarra (UPNA), Pamplona/E; <sup>2</sup> Centre of Advanced Surface Engineering (AIN), Cordovilla/E
- P 13.02 **Galvanic corrosion between Ti and CoCrMo alloy in human synovial fluids**  
Y. Bao<sup>1</sup>; A. Muñoz<sup>1</sup>; S. Mischler<sup>1</sup>; <sup>1</sup> EPFL, Lausanne/CH

Corrosion of Polymer Materials (WP 19)

- P 14.01 **Sol-Rec2 Case Study: Assessment of Corrosion Behaviour of Aluminium and Degradation of Polymers During Delamination of Multi-Material Packaging Systems**  
B. Syrek-Gerstenkorn<sup>1</sup>; <sup>1</sup> University of Leicester, Leicester/UK

Corrosion and Corrosion Protection of Drinking Water Systems (WP 20)

- P 15.01 **Long-term corrosion monitoring: A prediction tool using the "SOCORRO" system**  
B. Karabulut<sup>1</sup>; B. Verhoeven<sup>1</sup>; G. Potters<sup>2</sup>; S. Gelareh<sup>3</sup>; R. Dewil<sup>1</sup>; B. Rossi<sup>4</sup>; <sup>1</sup> KU Leuven, Sint-Katelijne-Waver/B; <sup>2</sup> Antwerp Maritime Academy, Antwerp/B; <sup>3</sup> University of Artois, Béthune/F; <sup>4</sup> University of Oxford, Oxford/UK
- P 15.02 **New process for interior pipe rehabilitation with environmentally friendly coating materials**  
H. Jost<sup>1</sup>; R. Feser<sup>1</sup>; E. Tarfeld<sup>1</sup>; H. Blache<sup>1</sup>; D. Kovousoglou<sup>1</sup>; T. Tillmann<sup>1</sup>; D. Mollenhauer<sup>2</sup>; S. Grahmer<sup>2</sup>; N. Gräßle<sup>2</sup>; <sup>1</sup> Fachhochschule Südwestfalen, Iserlohn/D; <sup>2</sup> Fa. Warnecke&Böhm, Schliersee/D

Corrosion of Archaeological and Historical Artefacts (WP 21)

- P 16.01 **Restoration of iron supporting structure of historic suspension bridge**  
H. Geiplova<sup>1</sup>; P. Fialova<sup>2</sup>; L. Mindos<sup>2</sup>; M. Vlachova<sup>1</sup>; <sup>1</sup> SVUOM Ltd., Praha/CZ; <sup>2</sup> SVUOM Ltd., Prague/CZ
- P 16.02 **Indoor environment and its aggressivity toward cultural heritage objects made of Lead and its alloys**  
D. Majtás<sup>1</sup>; P. Fialová<sup>2</sup>; <sup>1</sup> Institute of Theoretical and Applied Mechanics of the Czech Academy of Sciences, Prague/CZ; <sup>2</sup> SVUOM Ltd., Prague/CZ

Corrosion Control in Aerospace (WP 22)

- P 17.01 **Modification of tartaric-sulphuric acid anodizing bath by a short chain monocarboxylic acid based additive**  
E. Šrámková<sup>1</sup>; V. Zálšíš<sup>1</sup>; <sup>1</sup> Czech aerospace research centre, Prague/CZ

Corrosion Reliability of Electronics (WP 23)

- P 18.01 **Practical methods for Moisture Level Indication inside Printed Circuit Boards**  
J. Christensen<sup>1</sup>; <sup>1</sup> FORCE Technology, Brøndby/DK
- P 18.02 **Effect of solder mask surface properties and water film build-up on PCBA failure**  
A. Lakkaraju<sup>1</sup>; H. Conseil-Gudla<sup>1</sup>; R. Ambat<sup>1</sup>; D. Schucht<sup>2</sup>; J. Tekath<sup>2</sup>; <sup>1</sup> Technical University of Denmark, Kongens Lyngby/DK; <sup>2</sup> Lackwerke Peters GmbH & Co, Kempen/D
- P 18.03 **Electrochemical testing for characterization of sinterability of DCB substrates with Cu, Ag and NiAu metallization**  
S. Klengel<sup>1</sup>; J. Dumke<sup>2</sup>; D. Wilke<sup>2</sup>; M. Hahn<sup>2</sup>; <sup>1</sup> Fraunhofer IMWS, Halle/D; <sup>2</sup> Elektrochemie Halle GmbH, Halle/D
- P 18.04 **Developing strategies for protecting Li-ion powered hearing aids from the user environments.**  
M. Asikainen<sup>1</sup>; A. Yadav<sup>2</sup>; R. Ambat<sup>1</sup>; <sup>1</sup> Technical University of Denmark, Lyngby/DK; <sup>2</sup> WS Audiology A/S, Lyngby/DK

CO<sub>2</sub>-Corrosion in Industrial Applications (WP 24)

P 19.01 **Water absorption in dense phase CO<sub>2</sub>**  
 B. Morland<sup>1</sup>; A. Dugstad<sup>1</sup>; G. Svenningsen<sup>1</sup>; <sup>1</sup> Institute for Energy Technology, Kjeller/N

Atmospheric Corrosion (WP 25)

- P 20.01 **Deposition of Chloride Ions in the Vicinity of Road I/11 in the Czech Republic**  
 M. Vacek<sup>1</sup>; V. Krivy<sup>1</sup>; K. Kreislova<sup>2</sup>; M. Kubzova<sup>1</sup>; <sup>1</sup> Faculty of Civil Engineering, VSB – Technical University of Ostrava, Ostrava - Poruba/CZ; <sup>2</sup> SVUOM Ltd, Prague/CZ
- P 20.02 **Resistometric sensors for atmospheric corrosion monitoring of surface treated or naturally corroded metals**  
 M. Reiser<sup>1</sup>; F. Bayer<sup>1</sup>; A. Marešová<sup>1</sup>; Š. Havříš<sup>1</sup>; M. Kouřil<sup>1</sup>; <sup>1</sup> University of Chemistry and Technology Prague, Prague/CZ
- P 20.03 **Waterborne coating for bronze corrosion protection**  
 A. Kapitanović<sup>1</sup>; H. Otmacić Curković<sup>1</sup>; <sup>1</sup> Faculty of Chemical Engineering and Technology, Zagreb/HR
- P 20.04 **Applicability of the paste electrolyte cell for the evaluation of atmospheric corrosion of cultural heritage metals**  
 I. Šoljić<sup>1</sup>; S. Martínez<sup>2</sup>; <sup>1</sup> University of Zagreb, Faculty of Chemical Engineering and Technology, Zagreb/HR; <sup>2</sup> Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb/HR
- P 20.05 **Determination of the corrosion product layer resistance on zinc samples by using gel electrolytes**  
 S. Valet<sup>1</sup>; M. Babutzka<sup>1</sup>; <sup>1</sup> Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin/D

TF: Corrosion in Green & Low Carbon Energy Technologies

- P 21.01 **Study of the anodized Al sealing process, using new sealing solutions that are more respectful of the environment**  
 H. Salhi<sup>1</sup>; A. Chilali<sup>2</sup>; <sup>1</sup> Research and Development Center of Air Force, Alger/DZ; <sup>2</sup> National Preparatory School for Engineering Studies, Alger/DZ
- P 21.02 **Corrosion of Pt in fuel cell electrodes of different structure**  
 A. Krasnova<sup>1</sup>; A. Nechitailov<sup>1</sup>; N. Glebova<sup>1</sup>; A. Kastsova<sup>1</sup>; N. Zelenina<sup>1</sup>; A. Seyeux<sup>2</sup>; P. Marcus<sup>2</sup>; N. Cam<sup>3</sup>; P. Volovitch<sup>2</sup>; <sup>1</sup> Ioffe Institute, Saint-Petersburg/RUS; <sup>2</sup> Institut de Recherche de Chimie Paris, Paris/F; <sup>3</sup> Placamat, Pessac/F
- P 21.03 **Evaluation of the susceptibility to hydrogen-induced corrosion of various metallic materials for offshore power-to-X plants**  
 S. Schewe<sup>1</sup>; W. Fürbeth<sup>1</sup>; <sup>1</sup> DECHEMA-Forschungsinstitut, Frankfurt am Main/D
- P 21.04 **Carbon steel corrosion and fusion bonded coating deterioration in the liquid phase of anaerobic digestion**  
 X. Wen<sup>1</sup>; <sup>1</sup> University of Southampton, Southampton/UK

POSTER TOPICS

- A** Corrosion and Scale Inhibition (WP 1)
- B** Corrosion by Hot Gases and Combustion Products (WP3)
- C** Nuclear Corrosion (WP4)
- D** Environment Sensitive Fracture (WP 5)
- E** Corrosion Mechanisms, Methods and Modelling (WP 6 & 8)
- F** Marine Corrosion (WP 9)
- G** Microbial Corrosion (WP 10)
- H** Corrosion of Steel in Concrete (WP11)
- J** Corrosion in Oil and Gas Production (WP 13)
- K** Coatings (WP 14)

- M** Automotive Corrosion (WP 17)
- N** Tribo-Corrosion (WP 18)
- O** Corrosion of Polymer Materials (WP 19)
- P** Corrosion and Corrosion Protection of Drinking Water Systems (WP 20)
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