**XVI International Biodeterioration and Biodegradation Symposium**

**3-5 September 2014 Łódź, Poland**

**Wednesday, 3 September 2014**

08:00 - 09:00 - Registration

09:00 - 09:30 - Welcome and Opening Ceremony

09.30 - 10:15 – **Opening lecture**: *"Biodeterioration of Metallic Materials: Past Concepts, Current Perspectives and Future Challenges."* - Brenda Little

**10:15 – 12.15 Plenary lectures session 01-02-03-10**

**Chairman: Geoff Robson**

10:15 - 10:45 -"*MIC and Longer -Term Marine Corrosion of Steel Structures"* - Robert E.Melchers

10:45 - 11:15 - *"Biofilms on Building Materials: Influence of Substrate and Climate"* - Christine C. Gaylarde

11:15 - 11:45 - "*Our Evolving Understanding of  the Biodegradation of Wood and Wood Products: An Overview"* - Geoffrey Daniel

11:45 - 12:15 - *"Moving Fields of Biodeterioration: Observations on the Development of Biodeterioration Prevention, and Thoughts for Future Possibilities"* - Dennis Allsopp

12:15 - 12:45 - Coffee break with **POSTER -** presentation with discussion **(Sessions 01-02-03-10)**

12:45 - 14.45 – Oral sessions **01-02-03-10**

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| **Oral session 01.****'Microbiologically Influenced Corrosion'**Chairman: Iwona Beech12:45 - 13:45*"Plastic Strain due to Metallurgical Processes Increases Corrosion Rate"* - Recep Avci*“The Role of Biological Component in Deterioration of Metallic Materials in Marine Environments : Current Insight*”- Iwona Beech**Oral session 02.****'Biofilms and Biofouling'**Chairman: Christine C.Gaylarde13:45 - 14:45 | **Oral session 03.****'Biodeterioration and Biodegradation of Wood and Wood Products'**Chairman: Goeffrey Daniel12:45 - 13:45*"Microscopy Studies on Structural and Chemical Changes of Thermally Modified wood (TMW)* - Jong Sik Kim *"Instrumental Measurement of the Effects of Mould Fungi Growth in Laboratory Conditions on Control And Preserved Wood"* - Andrzej Fojutowski*"Comparative Durabilty of Heartwood from Selected Larch Species and Scots Pine Heartwood"* - Mohamed Jebrane*"Inhibition of Coniferous and Broadleaved Wood Biodegradation by New Menthoxymethylimidazolium Ionic Liquids"* - Jadwiga Zabielska-Matejuk |
| *"Microbial Ecology of Material Surfaces and Their Biofilms:Deserts at Your Doorstep" -* Anna Gorbushina *"Mass Spectrometric Metabolomic Methods for the Study of Bacterial Biofilms" -* Jan Sunner*"New and Emerging Strategies to Induce Biofilm Dispersal" -* Jeremy S. Webb*"The Halophilic and Halotolerant Micro-Flora of the 3500 Years Old Staircase of Hallstatt (Austria)" -* Guadalupe Pinar  | **Oral session 10.****'Strategic views of Economic, Regulatory Affairs, Forensic Studies and Regional Development in Biodeterioration'**Chairman: Dennis Allsopp13:45 - 14:45 *"Development of Biodeterioration Studies in South America"* - Christine Gaylarde*"Regulatory Influences in the Chemical Control of Biodeterioration"* – John Gillatt and Ken Seal*"Prospects of Applying Biodegradation for Environmentally Friendly Processes"* - Michel Sylvestre |

 14:45 - 15:45 - Lunch

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| **15:45** - departure from MTŁ to University of Lodz for workshops (Group 1)16:15 - 19:45 **Mass Spectrometry Workshops****20:00** - departure from University of Lodz to MTŁ |   |

**Thursday, 4 September 2014**

**09:00 – 11.00 Plenary lectures session 05-06-07-08**

**Chairman: John Gillatt**

09:00 - 09:30 – *“Microbes, Art and Conservation, a Winning Game?”* -Katja Sterflinger

09:30 - 10:00 – *“Pseudomonas Aeruginosa in Water Systems”-* Jimmy Walker

10:00 - 10:30 - *"Microbial Metal and Mineral Biotransformations"*- Geoffrey M. Gadd

10:30 - 11:00 - *"Recent Advances on the Biphenyl Catabolic Pathway and its Involvement in PCB Rizhoremediation"*- Michel Sylvestre

11:00 - 11:45 - Coffee break with **POSTER -** presentation with discussion **(Sessions 05-06-07-08)**

11:45 - 13:45 - Oral sessions **05-06-07-08**

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| **Oral session 05.****'Biodegradation of Cultural Heritage'**Chairman: Katja Sterflinger11:45 - 12:45 *"Biodeterioration and Conservation of Historic Sanctuary of Machu Picchu"* - Asuncion de los Rios*"Lichen Deterioration and Dispersal Patterns on Limestone Cultural Heritage in Temperate Areas"* - Mariagrazia Morando*"Mould Stains on Textiles:Decolourisation and Influence on Properties"* - Črtomir Tavzes | **Oral session 07.****'Biotransformation and Biodegradation of Hazardous Compounds'**Chairman: Jerzy Długoński11:45 - 12:45 *"The Omics Approach for the Biodegradation Studies of Hazardous Compounds"* - Rafał Szewczyk"*Molecular and Biochemical Analysis to Assess the Biotransformation of Simulated Textile Effluent Using Bacterial Consortium VIE6"* - Binal Shah*"Bioremediation of Petroleum Hydrocarbons in Estuarine and Coastal Zones: Case Specifics Strategies for Environmental protection"* - Ana Paula Mucha |
| **Oral session 06.****'Microorganisms and the Quality of Life'**Chairman: Jimmy Walker12:45 - 13:45 *"Towards Fully Biodegradable Microbial Fuel Cells"*- Jonathan Winfield*"Effective Antimicrobials of Natural Origin"* - Alina Kunicka-Styczyńska*"Adhesive Properties of Asaia spp.Isolated from Flavoured Mineral Waters"* - Dorota Kręgiel    | **Oral session 08.****'Biodegradation and Bioremediation of Persistent Pollutants'**Chairman: Katerina Demnerova12:45 - 13:45 *"Aromatic Pollutants-Degrading Bacteria in Contaminated Environments"* - Katerina Demnerova*“Application of Phytoremediation for the Treatment of Persistent Pollutants in Soil; Lessons From the Field”* – David Dowling*"AromaDeg, a Powerful Database to Explore Aerobic Bacterial Degradation of Aromatics"* - Marcia Duarte*"Adaptation Strategies in Pseudomonas sp.PJ14 Thriving in Extreme Conditions of Organic Pollutants:Membrane is Master Mind"* - Prameela Jha  |

13:45 - 14:45 Lunch

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| **15:00** - departure from MTŁ to University of Lodz for workshops (Group 2)15:30 - 18:30 **Mass Spectrometry Workshops****18:45** - departure from University of Lodz to MTŁ | 15:00 - 16:00 - Firms exhibition and presentations |

**20:00 - Conference Dinner (EXPO HALL)**

**Friday, 5 September 2014**

**09:00 – 11.00 Plenary lectures session 09-04-11-12**

**Chairman: Malcolm Greenhalgh**

09:00 - 09:30 *"Steel Corrosion and Fuel Stability: Are Biofuels Really Green?"* -Joseph Suflita

09:30 - 10:00 - *"Fungal Biodegradation of Plastics"* - Geoff Robson

10:00 - 10:30 – “*A Study of Marine Biofouling, its Influence on the Durability of Concrete Sea Defences and Potential Control Measures"* - Glyn Morton

10:30 - 11:00 - *"Enhanced Technologies for Biological Waste Water Treatment"* - Laurence R.Weatherley

11:00 - 11:45 - Coffee break with **POSTER -** presentation with discussion **(Sessions 09-04-11-12)**

11:45 - 13:45 - Oral sessions **09-04-11-12**

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| **Oral session 09.****'Biodiversity of Organisms involved in Biodeterioration, Biodegradation and Bioremediation'**Chairman: Joseph Suflita11:45 - 12:45 *"Geomycology: Fungal Processes in Metal and Mineral Biodeterioration"*- Geoffrey Gadd*"Methods Used in Studying Biodeterioration of Polymeric Materials"* - Ji-Dong Gu*"A Novel qPCR Protocol to the Specific Detection and Quantification of Hormoconis Resinae in Fuel Systems" -* Pedro Maria Martin-Sanchez*"Microbial Resource  Research Infrastructure (MIRRI) Communication Between Microbial Resources Centres and Users*"- Filip Zdziennicki*"Evaluation of Diuron Degradation by Bacteria Isolated From Soil of Sugarcane crop"*- Tassia Chiachio Egea*"The Characteristics of Bacterial Communities in Soils Exposed to the Long-Term Pressure of Heavy Metals in the Vicinity of ZGH "Bolesław"-Bukowno, Poland"*- Anna Jarosławiecka  | **Oral session 11.****'Protection against Biodeterioration Process'**Chairman: Glyn Morton11:45 - 12:45 *"The Chemical Preservation of Liquid Systems"* - John Gillatt*"The Use of Electronic Nose Technology as Part of in the Control of Odour Producing Microorganisms Present on Textiles"* - Malcolm Greenhalgh*"Effectiveness of textiles disinfection with silver nanoparticles and gamma irradiation methods"-* Katarzyna Pietrzak |
| **Oral session 04.****'Biodeterioration and Biodegradation of Polymeric Materials'**Chairman: Geoff Robson12:45 - 13:45*"Microbial Interactions with Plastic Pollutants in Marine Environments" -* Mark Osborn | **Oral session 12.****'Biodegradation in Environmental Protection'**Chairman: Laurence R. Weatherley12:45 - 13:45 *"Intensification of Ammonia Removal from Waste Water in Biologically Active Zeolitic Ion Exchange Columns" -* Laurence R.Weatherley"*Long-Term Dynamics of the Microbial Community in a Full-Scale Wastewater Treatment Plant"* - Adam Muszyński"*Anaerobic digestion of Slaughterhouse Waste With Sewage Sludge and Municipal Solid Waste"* -Sebastian Borowski   |

13:45 - 14:15 - Coffee break

14:15 - 14:45 - Conclusions, Remarks and Closing Symposium

14:45 - 15:45 - Lunch

15.45 - 16.45 - Meeting of IBBS Council

**18:00** - departure from Lodz for a sightseeing tour (Warsaw or Cracow)