**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 Beech  12:45 - 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.Gaylarde  13:45 - 14:45 | **Oral session 03.** **'Biodeterioration and Biodegradation of Wood and Wood Products'**  Chairman: Goeffrey Daniel  12:45 - 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 Allsopp  13:45 - 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 Sterflinger  11:45 - 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 Długoński  11:45 - 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 Walker  12:45 - 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 Demnerova  12:45 - 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 Suflita  11:45 - 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 Morton  11:45 - 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 Robson  12:45 - 13:45  *"Microbial Interactions with Plastic Pollutants in Marine Environments" -* Mark Osborn | **Oral session 12.** **'Biodegradation in Environmental Protection'**  Chairman: Laurence R. Weatherley  12:45 - 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)