



The MISCOMAR Project International Scientific Conference

Multiple benefits of biomass crops on marginal land

20th-21st March 2019, Institute for Ecology of Industrial Areas, Katowice, Poland

CONFERENCE PROGRAMME

20 th March 2019 9:00 – 16:10	
9:00 – 10:00	Registration of the participants and Welcome Coffee
10:00 – 10:20	Opening of the Conference and welcome by the host Jan Skowronek, Director of the Institute of Ecology of Industrial Areas, Poland Marta Pogrzeba, Project Coordinator, Institute for Ecology of Industrial Areas, Poland
10:20 – 11:40	Session 1. Opportunities for perennial biomass crop production on marginal land in Europe <i>Moderator: John Clifton-Brown, Aberystwyth University, Institute of Biological, Environmental and Rural Sciences, United Kingdom</i>
10:20 – 10:40	European Bioeconomy: growth targets and timelines Andreas Kiesel, University of Hohenheim, Institute of Crop Science, Department Biobased Products and Energy Crops, Germany
10:40 – 11:00	Biomass production on heavy metal contaminated soils: exclusion and possibilities Jacek Krzyżak, Institute for Ecology of Industrial Areas, Poland
11:00 – 11:20	A review of perennial biomass crop field trials on heavy metal contaminated and marginal land: opportunities and recommendations for future research Elaine Jensen, Aberystwyth University, Institute of Biological, Environmental and Rural Sciences, United Kingdom
11:20 – 11:40	Advances in the spatial estimations of Miscanthus crop viability in Eurasia Astley Hastings, University of Aberdeen, The School of Biological Sciences, United Kingdom
11:40 – 14:30	Session 2. Experience with <i>Miscanthus</i> crops on marginal land <i>Moderator: Elaine Jensen, Aberystwyth University, Institute of Biological, Environmental and Rural Sciences, United Kingdom</i>
11:40 – 12:00	Towards breeding resilient <i>Miscanthus</i> cultivars for marginal lands John Clifton-Brown, Aberystwyth University, Institute of Biological, Environmental and Rural Sciences, United Kingdom
12:00 – 12:20	<i>Miscanthus</i> cultivation and remediation potential on heavy metal contaminated soil in Poland Marta Pogrzeba, Institute for Ecology of Industrial Areas, Poland
12:20 – 13:30	<i>Lunch</i>
13:30 – 13:50	Practical approach to <i>Miscanthus</i> cultivation at commercial scale Sam Buckby, Michael Squance, Terravesta Ltd., United Kingdom
13:50 – 14:10	Phytotechnology with <i>M. x giganteus</i> biomass production while applying to the metal(loid)s contaminated military and post-industrial sites Valentina Pidlisnyuk, Jan Evangelista Purkyne University, Department of Technical Science, Czech Republic



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14:10 – 14:30	The technical and economic potentials of Miscanthus on marginal land in China Bingquan Zhang, University of Groningen, Energy and Sustainability Research Institute Groningen, The Netherlands
14:30 – 15:00	<i>Coffee break</i>
15:00 – 16:10	Session 3. Other crops for marginal lands <i>Moderator: Marta Pogrzeba, Institute for Ecology of Industrial Areas, Poland</i>
15:00 – 15:20	The possibility of cultivation Virginia mallow (<i>Sida hermaphrodita</i>) and cup plant (<i>Silphium perfoliatum</i>) for biogas and biomass production on light soils Marek Bury, West Pomeranian University of Technology, Faculty of Environment Management and Agriculture, Poland
15:20 – 15:40	Productivity of short rotation coppices and other perennial industrial crops in north-east Poland depending on production technology Mariusz J. Stolarski, University of Warmia and Mazury in Olsztyn, Faculty of Environmental Management and Agriculture, Centre for Bioeconomy and Renewable Energies, Poland
15:40 – 16:10	Discussion and conclusions after the first day of the conference
21st March 2019 9:00 – 16:00	
9:00 – 10:20	Networking coffee and Poster Session <i>Moderator: Jacek Krzyżak, Institute for Ecology of Industrial Areas, Poland</i>
10:20 – 10:40	The ERA-NET FACCE SURPLUS: Sustainable and Resilient Agriculture for Food and Non-Food Systems Nicolas Tinois, Project Management Jülich, Coordinator of FACCE SURPLUS, Germany
10:40 – 13:20	Session 4. Multiple products <i>Moderator: Andreas Kiesel, University of Hohenheim, Institute of Crop Science, Department Biobased Products and Energy Crops, Germany</i>
10:40 – 11:00	Miscanthus biomass conversion via combustion and anaerobic digestion Anja Mangold, University of Hohenheim, Institute of Crop Science, Department Biobased Products and Energy Crops, Germany
11:00 – 11:20	Possibilities and quality criteria of miscanthus biomass for material and fibre use Uwe Kühn, Technical Service Kuehn GmbH, Germany
11:20 – 11:40	Thermochemical gasification as a way of converting biomass into secondary energy carriers: an overview of the applications and challenges related to the process and the input material Marcin Siedlecki, Research and Innovation Centre Pro-Akademia, Poland
11:40 – 12:00	Sustainable production of critical raw materials using biomass resources Orla Williams, Faculty of Engineering, The University of Nottingham, United Kingdom
12:00 – 13:00	Panel discussion – How can marginal lands help to secure the biomass demand of the European Bioenergy and the Bioeconomy? <i>Moderator: Marta Pogrzeba, Institute for Ecology of Industrial Areas, Poland</i>
13:00 – 13:20	Conclusions and closing remarks <i>Marta Pogrzeba, Project Coordinator, Institute for Ecology of Industrial Areas, Poland</i>
13:20 – 14:00	Lunch
14:00 – 16:00	Trip to revitalised brownfield (LUMAT Project) in Ruda Śląska



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