



Sustainability Schemes for Bio-based Products in the Framework of the Circular Bioeconomy

The 6th International Environmental Best Practices Conference (EBP VI) 24-26 September 2019 | Olsztyn, Poland

The sustainable transition of the economy from fossil-based commodities to biomass-based alternatives is the biggest research challenge for the next decades. Firstly, the development of bio-based economy requires an interdisciplinary research approach as it is only through convergence of achievements at the crossroads of many sciences, including chemistry, biotechnology, technical, agricultural, environmental, social and economic sciences, that synergistic outcomes will be created. And secondly, applied research on economic system with bio-based value chains that assume material flows towards zero waste and pollution will integrate three fundamental areas of sustainable development: economy, environment, and society.

The implementation of circularity within bioeconomy requires that the value chains be examined in the context of life cycle analysis that

includes end-of-life options of bio-based products and restitution of the environment. However, the bioeconomy sectors are progressing more quickly than regulations associated with bio-based products entering the market. The gaps in the standards, certification schemes and labelling of bio-based products provide unregulated areas which cannot fulfil the requirements of sustainable developments.

Panel Sessions

1. Sustainable value chains for biomass-based products
2. Multi-product processing – requirements on sustainability
3. Green chemistry and biotechnology – new technologies and markets
4. Standardisation process for natural pharmaceutical products
5. Socio-economic dimensions of regulations on circular bioeconomy

The project meetings of BIOMagic (BIOSTRATEG III), EBIPREP (INTERREG V), H2020: PANACEA and H2020: STAR-ProBio will be held at the conference.

Authors of oral and poster presentations are encouraged to submit their manuscripts for publication in the periodical “Environmental Biotechnology” which has both printed and electronic versions (<http://www.environmentalbiotechnology.pl>).

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