



STAR-ProBio workshop at the Climate Show 2018

Date and time: April 6th 2018 from 11:00 to 12:30

Venue: Palexpo, Geneva

STAR-ProBio supports the European Commission in the implementation of European policy initiatives, including the Lead Market Initiative in bio-based products, the industrial policy and the European Bio-economy Strategy. The overall goal of the project is to **formulate guidelines for a common framework** promoting the development of regulations and standards that **support the adoption of business innovation models and market uptake in the bio-based products sector**. STAR-ProBio does so by **developing a blueprint for sustainability schemes and tools** applicable to a large spectrum of bio-products, and by making recommendations for a more efficient and harmonized policy regulation framework for the market-pull of such products. The results of STAR-ProBio will be **new and revised assessment methodologies, criteria and indicators** developed by integrating scientific and engineering approaches with social sciences and humanities:

- Environmental assessments focus on end-of-life analysis.
- Economic and social assessments based on stakeholder analysis, surveys and field experiments.
- Indirect land use change issues (ILUC) addressed from an environmental, economic and social perspective.

Proposed methodologies, criteria and indicators will be **applied to selected case studies** to illustrate benefits and impacts for bio-based products. These case studies cover extensive value chains with several intermediate and final bio-based products.

WORKSHOP AGENDA

- **Spotlight on STAR-ProBio** (10 min) – Prof. Piergiuseppe Morone, Project Coordinator, Unitelma Sapienza, IT
 - Aim and objectives of the project
 - Key findings in Year 1
 - Expected future outputs and achievements
- **European Standards supporting the market for Bio-based Products** (15 min) – Solveig Eriksson (CEN/TC 411 representative)
- **Panel Discussion: A vision for a bio-based economy:** Opportunities and challenges for bio-based products (60 mins). Panel members:
 - James Clark, Green Chemistry Centre of Excellence, University of York (*Panel convener*)
 - Constance Ißbrücker, European Bioplastics
 - Peter Jürgens, REDcert
 - José Maria Gómez Palacios, URBIOFIN Project and Biomasa Peninsular S.L.
 - Enzo Montoneri, University of Torino
 - Francesco Razza, Novamont
 - Andreas Taglieber, Firmenich
- **Next steps and Closing Remarks** (5 mins)



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Work Programme BB-01-2016: Sustainability schemes for the bio-based economy

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BIOGRAPHIES



Solveig Eriksson is convenor of CEN TC/411 WG4 Biobased products - Sustainability criteria, life cycle analysis and related issues.

She lives in Sundsvall - Mid Sweden and is still working with some small projects in her former company - SCA in Sundsvall and also with standardisation for the Swedish Forestry Association and for the big forest owners in Sweden. She is a mechanical engineer but also has some grades from university in the field of Pulp and Paper. Her experience involves amongst others the following: 35 years in the Forest Industry – pulp, paper, sawn timber, biofuel etc; Chair of the Swedish national committee for Energy management systems (EN ISO 50001); and Expert in the ISO-work with Energy management systems. Solveig is working with Forest Certification as well as Chain-of-custody for pulp, paper, timber and biofuel. She is an expert in the Environmental Court of Mid Sweden and an Internal auditor of Management systems for biofuels.



Prof. James Clark, Professor of Chemistry at York, Director of the Green Chemistry Centre of Excellence, and a Director of the Biorenewables Development Centre

has been at the forefront of green chemistry worldwide for about 20 years. He is a world-leader in green chemical technologies for the exploitation of low value bio-wastes as feedstocks for sustainable chemicals and materials and leads numerous, complex, multi-£m, multi-partner and multi-national projects in this field. He was founding scientific editor of the world-leading journal Green Chemistry and is the senior editor for the Royal Society of Chemistry Green Chemistry book series, He is founding president of the Global Green Chemistry Centres Network (G2C2) and chaired the EUBIS COST Action network on food waste valorisation. He is a member of the

EU Bio-based experts committee; EU Bio-based standards committee CEN/TC411; and the UK Chemical Stakeholders Forum (UKCSF). He recently chaired the first RSC Faraday workshop on bio-resources and has been appointed as Chair of the Scientific Advisory Board for the Nordic Bioeconomy Programme. His research has led to numerous awards including Honorary Doctorates from Ghent, Leuphana and Umea universities. He is also Visiting Professor at the universities of Cape Town, Fudan and Sichuan. He has published over 400 original articles and written or edited over 20 books. He has given plenary lectures worldwide and advises companies and governments across the globe on topics relating to green and sustainable chemistry.



José Maria Gómez Palacios is Director of BIOMASA PENINSULAR, an SME dedicated to the comprehensive management of biomass, waste and by-products and production of compost, bio-fertilisers and solid and recovered bio-fuels. He holds a degree in Agricultural engineering by the Madrid Polytechnic University. (1983) and a Masters in Superior Ibero-American studies by the Complutense University of Madrid. (1997). He is a participant in European Commission working groups related to the Soil Thematic Strategy (new policies of sludge, biowaste and soils) and promoter of the International Conference on Soil and Compost Eco-biology of soil and (soilACE) (www.soilACE.com). José is a member of A.E.A.S. (Spanish Association of Sanitation and Water supply), ISR

(Institute of sustainability of resources), WEF (Water Environment Federation) C.E.N., IWA (International Water Association), EFAR (European Federation of Agricultural Recycling) and participates in different Spanish and European R&D&i projects. He has also been a speaker at various national and international organic residues and by-products management conferences.



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Constance Ißbrücker, Head of Environmental Affairs, European Bioplastics e.V. holds a degree from the University of Jena, Germany, specialized in macromolecular and bioorganic chemistry. Before joining European Bioplastics in 2013, she worked in different research groups at universities in Berlin and Jena where she gained valuable experience in the modification and analysis of polysaccharide derivatives and the synthesis of chiral amines by biocatalytic processes. In 2016, she was promoted to Head of Environmental Affairs at European Bioplastics and is, among other things, responsible for the Product Groups Biobased and Biodegradables and the Seedling trademark.



Peter Jürgens has been director of REDcert GmbH since its foundation in 2010, which has been designated by Germany's leading branch organisations in the agricultural and biofuel sector as a coordinator of the REDcert certification scheme for sustainable biomass and biofuels. In addition he is director of two other companies – ORGAINVENT and SeedGuard – which provide certification schemes and services in the field of food labelling and seed treatment. He studied agricultural science in Bonn and has a long experience with the development and operation of certification schemes in agribusiness and food sector. Peter is also lead-auditor working for several certification bodies in the field of quality-, environmental- and food-safety management and is engaged as an instructor and inspector for the German Society for Quality (DGQ e.V.).



Prof. Enzo Montoneri started his career as a chemist in 1968 with E.I. DuPont de Nemours in USA. Since then he has been employed by several other chemical companies until 1983, when he joined the Politecnico di Milano in Italy as a researcher. In 1990 he became full professor of industrial chemistry at the University of Torino in Italy. His research fields are green chemistry and technology, chemical product and process development, material science and polymer chemistry. He has authored about 280 publications, communications at international conferences and patents covering these fields. Currently, he is working on demonstrating in real operational conditions his previous research results on the valorisation of urban and agriculture bioresidues as source of value added products. He has authored over 100 papers in this field.



Francesco Razza, Ph.D in Environmental Science, is an environmental sustainability and LCA specialist within the Ecology of Product and Environmental Communication sector of Novamont S.p.A. From June 2016 he has been responsible for the Sustainability of the Novamont Group. He has more than ten years-experience in Life Cycle Analysis (LCA) and environmental sustainability assessment of bio-plastic products, biorefineries and waste treatment; eco-design; environmental product certifications (e.g. EPD, PEF etc.); environmental management (ISO 14001 and EMAS); techno-economic assessments and CBA; non-financial reporting (e.g. GRI Standard); Corporate footprint assessments and CSR practices; and LCA software (SimaPro, GaBi, Easewaste and Gemi). Francesco is working group leader and participant in more than



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30 national or EU-funded research projects dealing with new biodegradable bioplastics development and applications and biorefineries. His areas of expertise are: polymer processing and characterisation; LCA and environmental sustainability of agro-industrial supply chains, LCC. He is a member of expert groups on plastic and bioplastics products, including Life Cycle Task Force of PlasticsEurope, European Bioplastics and EuropaBio. He is also a member of the CEN TC411 WG4 focused on the development of horizontal standards for bio-based products when it comes to sustainability criteria, life cycle analysis and issues related thereto.



Dr. Andreas Taglieber joined Firmenich, the leading flavor and fragrance house, in 2008 as laboratory head in biocatalysis and bioprocess engineering. In 2010, he was promoted to Director R&D Biochemistry. With his team he develops methods and processes for the biotechnological production of flavor and fragrance ingredients. Andreas studied chemistry at the University of Constance, Germany and the University of Oregon, USA. He completed his PhD in the area of enzyme engineering under the supervision of Prof. M.T. Reetz at the Max-Planck Institute for Coal Research, Mülheim, Germany. Since 2015, Andreas has been serving on the Advisory Board of the Competence Center for Biocatalysis (CCBIO), Zürich University of Applied Sciences ZHAW, Wädenswil, Switzerland.



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