

## Shaping the Scottish Bioeconomy Together

### Stakeholder Workshop in the context of the European Forum for Industrial Biotechnology and the Bioeconomy (EFIB 2016)

**Date:** 18 - 20 October 2016

**Venue:** Boardroom, [Glasgow Science Centre](#), 50 Pacific Quay, Glasgow G51 1EA

#### Aim of the workshop:

Scotland possesses a huge amount of natural resources, on which many small and medium-sized enterprises base their business models. The Scottish bioeconomy is largely focussed on industrial biotechnology and the major policy focus to date has been to support the growth of this sector, to enhance cooperation between technology-based firms and universities, and to invest in skill development.

This [BioSTEP](#) policy workshop focuses on local and regional businesses and their role in the regional bioeconomy. It explores a broader model of the bioeconomy (bottom-up, participatory) and discusses how small and medium-sized enterprises, civil-society organisations and further relevant actors can be engaged in the (further) development of a regional bioeconomy strategy in Scotland.

To this end, the workshop discusses what relevant actors need from a bioeconomy strategy to be useful for them and how the engagement process might be structured and set out so that they can bring their needs into the process. In order to focus the discussion on the practical problems in specific sectors or processes, the workshop will be split into three two-hour meetings on **whisky production, forestry and mariculture**.

The meetings will be held at the Glasgow Science Centre. Additionally, a half day **field trip** will be organised on 18 October, which will take participants to a whisky distillery near Glasgow. Participation in this field trip is free of charge. In parallel, the **BioSTEP exhibition "Bioeconomy in Everyday Life"** will be displayed at the Glasgow Science Centre.

#### Agenda:

18 October	Field Trip to The North British Distillery
13.00 - 18.00	<p>Scotch Whisky is a heat-intensive industry: heat accounts for around 80% of the industry's primary energy requirements. On this field trip, participants will get introduced to the size and scale of the operation of the anaerobic digestion system of the <a href="#">North British Distillery</a> which generates heat and power out of waste matter from the whisky production. The tour, guided by whisky expert <a href="#">John Lamond</a>, will include a Q&amp;A session with the distillery operators.</p> <p><b>Schedule:</b></p> <p>13.00 pm - Meeting point at taxi and pick up area at the east end of the Scottish Exhibition and Conference Centre (SECC) on Congress Road</p> <p>13.30 pm - Departure at SECC</p> <p>15.00 pm - Arrival at distillery and start of guided visit, incl. Q&amp;A session</p> <p>17.30 pm - Leaving distillery</p> <p>18.30 pm - Arrival at SECC [end of official part]</p> <p>19.00 pm - Arrival at <a href="#">Oran Mór Restaurant</a> [optional, at participants' own expense]</p>

<b>19 October</b>	<b>Meeting 1: Whisky production</b>
<i>A light lunch will be served between 13.00 and 13.30</i>	In this session, ways how to link old with new industries will be discussed. The focus lays on whisky production: How can the Scottish whiskey industry be linked to a regional bioeconomy? How can the respective actors contribute to such regional strategies?
<b>13.30 - 15.30</b>	<b>Keynote: How to link one of Scotland's oldest industries, Scotch Whisky manufacture, with its newest one, Industrial Biotechnology? Alan Wolstenholme</b> [Founder of Caledonian Solutions Ltd., Honorary Professor at the International Centre for Brewing and Distilling, Heriot-Watt University Edinburgh & Chairman of Xanthella Ltd., a microalgae related startup]
<b>19 October</b>	<b>Meeting 2: Forestry</b>
<i>Welcome Coffee between 15.30 and 16.00</i>	Scotland possesses a huge amount of natural resources, including many forests. Forest biomass may be used for bioenergy purposes and in innovative bio-based products. What are the prospects of these uses? How can SMEs and other relevant actors contribute to effective regional bioeconomy strategies? Can these strategies avoid conflicts of interest and help to identify synergies and opportunities for cooperation?
<b>16.00 - 18.00</b>	<b>Keynote: What are the prospects for innovative timber products; are conflicts of use emerging and could regional bioeconomy strategies help to avoid these? Robert Matthews</b> [Science Group Leader, Forest Mensuration, Modelling & Forecasting, Centre for Sustainable Forestry and Climate Change, Forestry Commission Scotland] together with <b>Andy Leitch</b> [Timber Development Policy Advisor, Forestry Commission Scotland]
<b>20 October</b>	<b>Meeting 3: Mariculture</b>
<b>10.00 - 12.00</b>	The Atlantic coast of Scotland has some of the best renewable energy generation potentials in Europe, but developments are being compromised by infrastructure constraints, severely hindering economic development. In this session it will be discussed how renewable power and Circular Economy mechanisms can be used to build mariculture business models for rural areas. Furthermore, it will be also discussed how SMEs could build networks and contribute to regional bioeconomy strategies.
<i>A light lunch will be served between 12.00 and 12.30</i>	<b>Keynote: How could Mariculture, especially microalgae, be part of a regional bioeconomy strategy which addresses social and environmental challenges, Douglas McKenzie</b> [Founder and Managing Director at Xanthella Ltd., former Marine Biotechnology Group leader and Fellow]
<b>18 until 20 October</b>	<b>BioSTEP exhibition "Bioeconomy in Everyday Life"</b>
<b>10.00 - 17.00</b>	Whether for food, clothing or consumer goods, in the kitchen or in the garage – many everyday products contain components made from renewable raw materials or are produced using bio-based procedures. The bioeconomy has thus made its way into everyone's lives, but we generally remain unaware of it. The exhibition is a forum to demonstrate the relevance of modern bio-based technologies in daily life – for professionals as well as for the general public. The exhibition will be set up at the Glasgow Science Centre from 18 until 20 October. It can be visited during the opening hours of the Science Centre. <b>A guided tour for all participants of the BioSTEP workshops will take place after the third workshop on mariculture at 12.30 pm.</b>

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