



SCOTLAND'S
COUNTDOWN to COP26

The Herald
SEVEN DAYS

Innovation
Centres

Supported by The Scottish Funding Council,
Highlands and Islands Enterprise and
Scottish Enterprise.

Register
NOW

Theme 4

Sustainable Industrial Processes

Hosted by IBioIC – Industrial
Biotechnology Innovation Centre

▶ 13.00 - 13.20 - Session 1

Introduction: Building new bio-based supply chains in Scotland

- Dr Ian Archer, Technical Director, IBioIC

▶ 13.20 - 13.45 - Session 2

The role of biofuels as a pathway to Net Zero

- Martin Kingsley, Argent Energy

▶ 13.45 - 14.10 - Session 3

Global carbon storage in buildings: fast, at scale and naturally

- Scott Simpson, CEO, IndiNature

▶ 14.10 - 14.35 - Session 4

From innovation to Industry – bridging the gap

- Martin Tangney OBE, Founder and President, Celtic Renewables

▶ 14.35 - 15.00 - Session 5

Maintaining and developing our national infrastructure

- Prof Rebecca Lunn MBE, Royal Academy of Engineering and BAM Nuttall Research Chair in Biomineral Technologies for Ground Engineering, University of Strathclyde.

ORGANISED BY



SUPPORTED BY

**Theme 4****Sustainable Industrial Processes**Hosted by IBioIC – Industrial
Biotechnology Innovation Centre**Speaker
Details****Dr Ian Archer****Technical Director, IBioIC**

Dr Ian Archer joined IBioIC as Technical Director in August 2015. He is responsible for directing the technical strategy of the Centre.

His background is in synthetic organic chemistry and chemical process development. He developed expertise at the interface of molecular biology, microbiology and bioprocess development while Head of Process Development at Ingenza where he was responsible for all aspects of bioprocess development.

Ian joined Ingenza in 2004 after spending 6 years as a Work Group Leader in Process Technology with Zeneca (latterly Avecia) in Grangemouth, Scotland. He received his degree and PhD in chemistry from Imperial College, London.

ORGANISED BY

SUPPORTED BY

Theme 4**Sustainable Industrial Processes**Hosted by IBioIC – Industrial
Biotechnology Innovation Centre**Speaker
Details****Martin Kingsley****R&D Manager, Argent Energy**

Martin Kingsley is the R&D manager for Argent Energy and has worked with them for over four years. He has had over 20 years' experience working in different technical roles. He currently manages a number of projects which use waste fats and oils as feedstocks for higher value chemicals/products.

ORGANISED BY

SUPPORTED BY

Theme 4**Sustainable Industrial Processes**

Hosted by IBioIC – Industrial Biotechnology Innovation Centre

**Speaker
Details****Prof Rebecca Lunn MBE****Royal Academy of Engineering and BAM Nuttall
Research Chair in Biomineral Technologies for Ground
Engineering, University of Strathclyde**

Prof Rebecca Lunn (MBE, FEng, FRSE, FICE, FIE) is the Royal Academy of Engineering and BAM Nuttall Research Chair in Biomineral Technologies for Ground Engineering at the University of Strathclyde. She has led >£7M of research, with an emphasis on the development of low carbon technologies for ground engineering, with specific applications in construction, nuclear decommissioning, nuclear waste disposal and geological carbon storage.

She is an experienced advisor to Government, including past membership of the UK Committee on Radioactive Waste Management and the Scottish Government Working Group on Geothermal Energy Production. She is a Trustee of the Royal Society of Edinburgh, a member of the Operating Committee of the National Engineering Policy Centre and an advisor to the Engineering and Physical Sciences Research Council on Engineering and the Circular Economy.

ORGANISED BY

SUPPORTED BY

Theme 4**Sustainable Industrial Processes**

Hosted by IBioIC – Industrial Biotechnology Innovation Centre

**Speaker
Details****Professor Martin Tangney OBE**
Founder and President Celtic Renewables Ltd

Professor Martin Tangney is a key international figure in the low carbon sector, informing the policy debate around the world. In 2007 he established at Edinburgh Napier University the UK's first research centre dedicated to the development of sustainable biofuel. An award winning inventor, Martin made global news headlines for his process for producing biobutanol, as a sustainable advanced biofuel (a direct replacement for petrol), from the by-products of Scotland's crucial malt Whisky industry – not only providing a sustainable disposal route for the by-products of one of Scotland's largest industries, but also integrating renewable energy production with environmental sustainability and carbon reduction.

His innovation has been equally applauded by NGOs, industry leaders and international Government leaders alike and he has focused worldwide media attention onto low carbon innovation in Scotland - featuring on most major TV news channels from Europe to Asia, including BBC, Sky, ZDF, France 24, CNN, Bloomberg, Fox, CBS, China State TV, EU Parliament TV and Nippon TV, as well as being featured in a diverse array of print media features, ranging from National Geographic to Time magazine. In 2017 - to global media acclaim – Martin made history when powering the world's first ever car fuelled with biobutanol derived from local whisky production residues.

ORGANISED BY

SUPPORTED BY

Theme 4**Sustainable Industrial Processes**

Hosted by IBioIC – Industrial Biotechnology Innovation Centre

**Speaker
Details****Scott Simpson****Chief Executive Officer and Founder, IndiNature**

Scott is the innovator entrepreneur leading the company with scientific, commercial and practical experience. While working in community development with people in poor housing conditions, he was motivated to improve the health of people and the planet by focusing on a sustainable built environment.

A broad range of experience and education includes an MSc in Architecture (Advanced Environmental and Energy Systems) in the UK, time as an advertising Art Director in California and studies in chemistry and biology in Canada. After doing lab-based research developing natural bio-based construction materials, Scott rebuilt his family home with them in Scotland - using skills gained as a builder in Vancouver. Finding gaps in the market, he brought together three IndiNature co-founders to make the world's best sustainable construction insulation on scale.

Scott is one of 20 entrepreneurs selected by Scottish Enterprise for the inaugural £4m Unlocking Ambition challenge supporting innovative and high potential companies. He also won places for IndiNature through all three stages of the EU Climate KIC business accelerator programme, in residence at the Edinburgh Centre for Carbon Innovation - taking the company to place amongst the Top 6 Cleantech Startups in Europe in 2018.

ORGANISED BY

SUPPORTED BY