

Theme 1 Built Environment

Hosted by CSIC - Construction Scotland Innovation Centre

▶ 13.00 - 13.25 - Session 1

Reinvent, Reimagine

- Chaired by Stephen Good, CEO, CSIC
- Adah Parris, Futurist & Cultural Strategist
- Dr Marie Macklin CBE, Founder & Executive Chair, HALO Urban Regeneration Co
- Terry A'Hearn, CEO, Scottish Environmental Protection Agency

▶ 13.25 - 13.45 - Session 2

Transforming the way we build

- Hosted by Lucy Black, Director of Innovation & Engagement, CSIC
- Karim El-Jisr, The Sustainable City Dubai
- Mark Farmer, Cast Real Estate & Construction Consultancy
- Matt Stevenson, Head of Offsite Manufacture, SNRG

▶ 13.45 - 14.10 - Session 3

The 80% challenge - changing our existing built environment

- Hosted by Emma Church, Innovation Manager, CSIC
- Peter Rickaby MA Dip Arch PhD RIBA, Energy and sustainability consultant
- Kelly Nugent, Senior Procurement Specialist, Scotland Excel
- Russell Smith, Managing Director, Parity Projects

▶ 14.10 - 14.30 - Session 4

Made in Scotland, Made from Scotland

- Hosted by Stephen Boyle, Strategic Programme Manager, Zero Waste Scotland
- Professor Sandy Liddell Halliday CEng Hon FRIAS, Principle, Gaia Group Ltd
- Chris Morgan, Director, John Gilbert Architects Ltd

▶ 14.30 - 14.55 - Session 5

A Human Future

- Hosted by Douglas Morrison, Director of Operations and Future Skills, CSIC
- Jennifer Phin, Managing Director, AC Whyte
- Emma Marriott, Emma Marriot Consulting
- Louise Rogers, Centre for Offsite Construction & Innovative Structures (COCIS)

▶ 14.55- 15.00 - Session 6

Closing remarks and CSIC challenge

- Stephen Good, CEO, CSIC

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Terry A'Hearn

CEO, Scottish Environmental Protection Agency



Terry has over twenty years' experience in the environment profession, having held senior roles in Melbourne with the Environment Protection Authority in the Australian state of Victoria, in London with the global consulting firm WSP and, most recently, in Belfast as Chief Executive of the Northern Ireland Environment Agency before he joined SEPA.

In all this work, Terry has strongly focussed on bringing environmental and economic aims together, supporting business and social innovation and getting tougher with the worst environmental performers.

Terry is a Senior Associate at the Cambridge Programme for Sustainability Leadership, a member of the Advisory Board of the Global Footprint Network and a Fellow of the UK Institute of Directors. Terry is also co-chair of the European EPA network's Better Regulation Interest Group.

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Lucy Black

Director of Innovation & Engagement, CSIC



Lucy has been with CSIC since July 2016 working with ambitious innovative businesses within the Scottish construction industry, overseeing the development of pioneering new projects and engaging industry in CSIC's work.

With a career in economic development and consultancy focused on innovation and international collaboration for the last 18 years, Lucy has worked extensively with innovative companies and universities across Scotland within construction and renewable energy. Her expertise lies in building new business models based on innovation and developing strong commercialisation strategies whilst leveraging in appropriate funding.

Lucy works with a large industry network creating new relationships between industry and academia, driving forward the Scottish construction industry to deliver higher economic growth with an international outlook.

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Stephen Boyle,

Strategic Programme Manager, Zero Waste Scotland



Stephen has worked in the area of environmental regulation and management, and resource efficiency support for over 30 years. He qualified as a Chemist in 1989 and worked for 20 years in Scotland's environment protection bodies.

In 2008 Stephen left the Scottish Environment Protection Agency for the world of consultancy where he worked in various positions primarily around climate change and energy issues. Over 4 years Stephen was fortunate to work for a number of companies and organisations including a 6 month secondment to the Department of Transport as their Stakeholder Manager for the introduction of the EU ETS to the Aviation Sector, program managing 3 programmes with the Carbon Trust introducing Carbon Management to public and private organisations across Scotland and many smaller projects across the UK and overseas.

In 2012 Stephen joined Zero Waste Scotland to lead the delivery of business support through the Scottish Government's Resource Efficient Scotland programme. Stephen is now a Strategic Programme Manager at Zero Waste Scotland, which results in him working across numerous teams and programmes within ZWS, but Stephen has a particular passion for the construction sector and the opportunities and possibilities it has to drive resource efficiency, innovation and the circular economy and directly tackle climate change.

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Emma Church

Innovation Manager, CSIC



Emma joined CSIC's innovation team in April 2020. Currently holding a joint role with ETP, Scotland's Research Pool for Energy, Emma brings her experience of supporting the energy sector in Scotland. In particular, facilitating collaboration between industry and academia to develop innovations helping Scotland and the UK meet their ambitious decarbonisation targets.

With a degree in Energy and Environmental Management and a previous research role with Glasgow Caledonian University, Emma works on CSIC's Building Sustainably Strategy that encompasses both operation and embodied carbon projects, with a particular focus on renewable heat. Emma is a creative individual who thrives on supporting the development of innovative solutions to drive businesses forward and in turn creating a positive impact on the Construction industry and contribute to Scotland's Net Zero Strategy.

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Karim El-Jisr

The Sustainable City Dubai



Karim El-Jisr combines resource management, climate change, and urban development. After 20 years in conservation management, he shifted his attention to making cities and communities more livable and climate-proof. He is based in The Sustainable City in Dubai, an award-winning master-planned community, where he manages a global platform for advancing knowledge in sustainability and the built environment.

Karim graduated from the American University of Beirut in agricultural engineering and environmental sciences. He completed a course in Business Sustainability Management from the University of Cambridge Institute for Sustainability Leadership. A seasoned speaker at international venues, Karim is fluent in Arabic, English, French, and Danish.

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Mark Farmer



Cast Real Estate & Construction Consultancy

Mark has 30 years' experience in construction and real estate and is a recognised international commentator on a variety of industry and policy related issues. Mark authored the Farmer Review, an influential 2016 independent government review of the UK's construction labour model entitled 'Modernise or Die'. In 2019 he was appointed as the government's Champion for Modern Methods of Construction in Housebuilding.

Mark is a member of the Construction Innovation Hub Industry Board, the Construction Leadership Council Advisory Group and is a board member for Construction Scotland Innovation Centre. He is also a national co-chair of Constructing Excellence and the Urban Land Institute UK Residential Council and a trustee of the MOBIE educational charity.

Mark is an honorary professor at The University of Salford's School of Built Environment and holds honorary doctorates from the University College of Estate Management and the University of Wolverhampton.

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Stephen Good, CEO, CSIC



As Chief Executive of Construction Scotland Innovation Centre (CSIC), Stephen is responsible for delivering CSIC's strategic vision, the aim of which is to champion innovation and connect Scotland's construction industry to deliver transformational change. CSIC exists to enable industry to exploit global opportunities by mainstreaming a culture of innovation in the built environment.

Stephen qualified as an architect in 1998 before spending nine years at Anderson Bell & Christie designing and delivering residential, education and healthcare projects. In 2007, he joined construction group CCG to lead the technical delivery of the £12million state-of-the-art offsite manufacturing facility, now regarded as one of the UK's most advanced.

Taking on the role of Design Director at CCG in 2010 saw Stephen responsible for research and development activities across the organisation and the establishment of the Building Futures Lab, a specialist sustainability, design and innovation consultancy.

Stephen has held his role at CSIC since the centre's launch in October 2014, and during this time he has grown the organisation from a start-up business plan idea to a trusted delivery partner, led by industry demand and driving construction innovation across Scotland. Stephen actively supports industry through his activity with key groups across the sector including the Construction Leadership Forum and the Construction Leadership Council.

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Professor Sandy Liddell Halliday CEng Hon FRIAS, Principle, Gaia Group Ltd



Sandy is a chartered engineer and highly respected author and communicator with extensive experience of interdisciplinary working. She has worked as a researcher in built environment issues and a sustainability adviser to the private, public and third sector since 1986. Sandy established Gaia Research (now Gaia Group Ltd) in 1995 to develop sustainable solutions for the built environment. The practice portfolio embraces research, evaluation, dissemination, training and capacity building, often advising on environmental strategies and providing real time advice. She has assisted numerous clients to procure healthy, resource efficient, new and regenerated buildings and places to support clients and communities and enhance biodiversity, whilst demonstrating best value. As Professor of Engineering Design for Sustainable Development at The University of Strathclyde she developed a training programme for students and professionals. This was consolidated as the highly acclaimed Sustainable Construction, 2nd Edition, with 120 best practice case studies covering policy, cost, measurement, materials, environmental design, energy, process and urban ecology. Short intro Her research is documented in numerous Publications. She conceived and designed the unique RIAS Accreditation Scheme in Sustainable Design.

Her current and most recent activity includes research into Zero Waste Housing for ZWS, advising on eco-parks, housing for vulnerable people and hospitality refurbishment. In 2019 she conceived, initiated and organised a conference on Scotland's Housing – More than Just Numbers and collaborated on Housing 2040 – A Scotland Wide Housing Exhibition. In 2018, Sandy's ability to bridge the gaps between architecture and engineering in briefing, process issues, passive design and building physics was recognised with an Honorary Fellowship of the RIAS for services to sustainability and the built environment. In 2020 she was selected as one of the WES Top 50 Women in Engineering (WE50) 2020: Sustainability. She currently teaches on the Energy & Environment Programme at the University of Oslo International Summer School.

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Dr Marie Macklin CBE

Founder & Executive Chair, HALO Urban Regeneration Co



Marie Macklin CBE is Founder and Executive Chair of the HALO Urban Regeneration Company.

The HALO is working with communities across the UK to create a “Tomorrow’s World” with a net zero carbon footprint – for our children and for their children.

The HALO’s mixed-use developments, the first of which is currently under construction in Kilmarnock, East Ayrshire, will be powered and heated entirely by renewable energy, creating a place where people can Live, Work, Learn and Play.

In 2014, Marie was awarded a CBE in the Queen’s 2014 New Year’s Honours List for Services to Economic Regeneration and Entrepreneurship in Scotland and in 2018 she accepted an Honorary Degree from Glasgow Caledonian University making her a Doctor of Business Administration.

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Emma Marriott

Emma Marriot Consulting



Emma Marriott is passionate about all things people. Leading a growth business of recruiters, marketers, payroll and accounts staff to provide recruitment services to the construction industry has meant her time was split between motivating and engaging her teams as well as meeting the staff needs of her clients and candidates.

Since leaving her role as Managing Director, she is using her expertise to work with clients to create clear people strategies and engaging leaders to attract and retain their staff more effectively. To do so she has worked with senior management to improve leadership and communication skills as well as providing clarity of vision and goals. She loves people data and ensuring talent is aligned to the vision and goals of the organisation. She is a Board Member of CSIC with particular interest in the skills and diversity agenda and also sits on the Board of West Lothian College with an interest in bridging the gap between education and employment.

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Chris Morgan

Director, John Gilbert Architects Ltd



Chris is an architect and a Director at John Gilbert Architects with over 25 years' experience in ecological design and sustainable development. He has maintained a range of experience from masterplanning and energy infrastructure, through to award-winning and innovative architecture, research and teaching.

Previously a Chair of the Scottish Ecological Design, Chris is one of only three architects with advanced sustainable architecture accreditation from the RIAS. He is a design review panellist for Architecture + Design Scotland and has certification in Passivhaus design, building biology and permaculture. Chris has been involved in a number of innovative retrofit projects and building performance evaluation, he wrote the SEDA / Pebble Trust Guide to Sustainable Renovation and is currently running a large number of retrofit projects, including an EnerPHit tenement refurbishment in Glasgow.

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Douglas Morrison



Director of Operations and Future Skills, CSIC

Douglas is an experienced leader with a history of working in the further and higher education and construction sectors. He is responsible for supporting the construction industry in Scotland to embrace transformational change through the adoption of modern methods of construction, investment in skills and changes in policy and investment strategies.

As an award-winning educator and business leader, Douglas brings a wealth of experience in driving high value and high growth strategies across a range of sectors and businesses. He is a Fellow of the Institute for Innovation and Knowledge Exchange (FIKE) and holds several board and non-exec roles with organisations including Glasgow City of Science and Innovation, the Glasgow Economic Leadership committee for advanced manufacturing and the Scottish Funding Council. Douglas has worked extensively across Europe and Asia through collaborative developments and is a regular speaker on skills, innovation and equality.

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Kelly Nugent



Senior Procurement Specialist, Scotland Excel

Kelly is the Senior Procurement Specialist responsible for managing Scotland Excel's £800m Energy Efficiency Contractors Framework. She has a background within the private sector and a wealth of experience in contract management and process improvement within the energy industry following almost two decades with Scotland's leading energy provider Scottish Power. She is committed to improving the energy efficiency within Scotland's buildings, and delivering high quality and sustainable skills and jobs within the energy efficiency market.

Kelly believes that collaborative working and adopting a holistic approach to energy efficiency measures is key to Scotland becoming a zero-carbon country by 2045 and achieving our climate change objectives. This includes the delivery of whole house retrofit, and renewable technology in combination in order to provide value for money for organisations, individuals and the public purse. A member of the CICV Futures group, Kelly is working with a range of public and private sector organisations, as well as construction industry professionals to help to drive and develop innovative and sustainable energy efficiency improvements throughout Scotland.

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Adah Parris

Futurist & Cultural Strategist



Adah Parris is a futurist, story-teller and cultural strategist. A polymath and enthusiastic curator of people, patterns and stories, Adah was recognised as one of the UK's Top 100 Black and Minority Ethnic (BAME) Leaders in Technology in 2018.

With over 20 years' experience in transforming cultures to create human blockchains – decentralised human ecosystems of trust and transparency – Adah has worked with businesses and individuals in advertising, education, entertainment, entrepreneurship, marketing, media, and technology start-ups. She has worked with a wide range of clients, including: Sainsbury's, Google, Unilever, Oath, Ogilvy Labs, The British Council, The EU Council, The Tate Modern, the British Film Institute (BFI), The Union Chapel, Burning Man Camp: Playground, ArabNet Dubai, Innovate Finance, and many more.

She has a philosophical approach to technology which, combined with her skills in pattern recognition and immersive story-telling, has helped transform cultures to nurture decentralised humanity-centred innovative environments. Her innovative idea, Cyborg Shamanism was submitted to the Fast Company World Changing Ideas Awards. The concept of Cyborg Shamanism allows one to empathetically subvert the 'status quo'. It can be utilised as a potential business application across the areas of innovation, culture, diversity and inclusion. Adah addresses how, to date, most of the development of an investment into scaled technology, especially digital technology, has been for and by the WEIRD (Western Educated Industrialised Rich and Democratic). Cyborg Shamanism offers an impact on innovation by combining 'other ways of knowing', which are the perspectives of First Nation Peoples, Indigenous or ancestral knowledge with the design of these new and emerging technologies. It is specifically related to SDG 17, Partnerships for the Goals, providing a new approach for work and enabling people to address the other SDGs as equals and inclusive partners.

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Jennifer Phin

Managing Director, AC Whyte



Jennifer Phin is Managing Director of award-winning family business A.C. Whyte & Co. Ltd, one of Scotland's most experienced major refurbishment Main Contractors, established 47 years ago. Jennifer leads a team of experts including a management team with over 360 years collective experience and a fully trained, directly employed workforce of over 160 operatives. Her skilled team have delivered projects with 22 of the 32 Local Authorities in Scotland and over 40 Housing Associations with a focus on energy efficiency.

Jennifer took over as Managing Director in 2015 and since then has managed the steady growth of the business, with 2018 turnover exceeding £15m, the highest in the company's history.

Jennifer's focus for the future is continued, steady growth and diversification across the business as well as creating increased training and employment opportunities. Jennifer and key members of the team worked in partnership with West College Scotland to design and launch the A.C. Whyte Skills Academy in 2018, which is a unique, industry led initiative. Now in its 3rd year it has proven to be an effective model for delivering a sustainable pipeline of talent into the future.

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Peter Rickaby MA Dip Arch PhD RIBA



Energy and Sustainability Consultant, Rickaby Thomson Associates

Peter Rickaby qualified as an architect at Cambridge University and gained a doctorate in energy studies from the Open University. He spent thirty-five years as a specialist energy and sustainability consultant in buildings and housing, working on projects throughout the UK and across the EU. He has written, co-authored or edited extensive technical guidance on energy efficiency in housing, and particularly on retrofit.

Peter has been a Director of the Centre of Refurbishment Excellence (CoRE) and a Trustee of the National Energy Foundation. He contributed to the Each Home Counts review, chairs the BSI Retrofit Standards Task Group, and was Technical Author of the UK's new comprehensive domestic retrofit standard Publicly Available Specification (PAS) 2035 Retrofitting Dwellings to Improve Energy Efficiency: Specification and Guidance. Peter now helps to run the UK Centre for Moisture in Buildings at University College London, and helps to train Retrofit Coordinators via the Retrofit Academy. He also writes a regular column in Passive House Plus magazine..

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Louise Rogers



Centre for Offsite Construction & Innovative Structures (COCIS), Edinburgh Napier University

Louise Rogers is a research assistant at Edinburgh Napier University, within the Centre for Offsite Construction + Innovative Structures (COCIS). Louise has recently graduated from Edinburgh Napier University with an MSc in Advanced Structural Engineering, after the completion of her undergraduate degree, BEng (hons) in Civil Engineering. Louise has worked on a variety of projects within the COCIS, however, her primary area of research work is surrounding the racking performance of light-gauge steel walls suitable for offsite manufacture.

Through a combination of full-scale testing and numerical modelling, she has carried out extensive work in this area over the course of her master's. Alongside this, Louise has worked on various aspects the Offsite Ready project, however, most notably acted as the driving force behind a student summer design challenge.

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Russell Smith



Managing Director, Parity Projects

Russell Smith is at the forefront of the significant changes needed across the UK building industry to realise the ambitions of the climate change-critical need to transform all of the existing homes in the country. Russell Smith is a Chartered Civil engineer and Founder and Managing Director of Parity Projects, a company dedicated to transforming the existing housing stock and making greener homes a reality for everyone. Parity Projects advises on and project manages renovations for private homeowners, local authorities and housing associations. Their approach was first piloted in 2004 with the Carshalton Grove Eco-Renovation Demonstration Project, which achieved a +70% reduction in CO2 emissions and a 60% reduction in water consumption. It won several awards including Building magazine's 2007 Award for sustainable refurbishment and the 2008 Observer Ethical Award.

Parity has gone on to build tools that allow householders and managers of stocks of homes to envision and deliver retrofit at scale. Parity currently has nearly 9 million UK homes in its cloud based portal to support a variety of organisations to understand market potential and to provide bespoke advice to householders.

Russell is also Founder and Managing Director of RetrofitWorks, owned by and working with community based organisations to design and host all project stages of schemes that deliver energy saving and refurbishment works in buildings. RetrofitWorks has led over £12m of domestic retrofit projects since 2020 using SMEs working in their local area in partnership with the Mayor of London, Citizens Advice, Local Authorities, Social Landlords and a range of Community Energy Cooperatives and now heads three BEIS-funded supply chain pilots in the UK. RetrofitWorks is a TrustMark Scheme for contractors and Retrofit Coordinators.

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Matt Stevenson



Head of OSM at OUR SSNRG

Matt is a co-founder of SNRG which is developing a 'Living as a Service', subscription-based model that wraps together rent, shared mobility, communal energy, wifi, and library of things, with the first developments anticipated to be delivered in 2021.

Previously, matt co-founded Carbon Dynamic, with the mission of delivering social, environmental and industry impact through focusing on sustainable, circular economy principles. He is a serial collaborator and has worked closely with CSIC and Napier Uni's Centre for Offsite Construction and Innovative Structures and supported the establishment of the beX student programme.

He has also founded ECOSystems Technologies to focus on timber and digital innovation with a strong focus on the development of homegrown timber solutions and specifically the commercialisation of homegrown cross laminated timber.

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