



WALES CYMRU NATIONAL TRANSPORT CONFERENCE 2022

Overview and Speaker Bios

COP 26 Implementing the Policies

The aim of this conference is to address the theme of “COP 26 Implementing the Policies” by covering a wide range of topics which will positively impact the way we live our lives from transport strategy through using new and sustainable technologies. Whilst some of the strategies being presented are Wales only, they will have a wider impact as people embrace new ways of travelling and benefit from the positive rewards within our communities and the wider global world. Presenters will also focus on how we can all contribute to the implementation of these policies by thinking about the way we travel.

The COP26 summit held in Glasgow in 2021 brought parties together to accelerate action towards the goals of the Paris Agreement and the UN Framework Convention on Climate Change. More information can be found at www.ukcop26.org

This event is being brought to you jointly by the Institution of Civil Engineers, The Chartered Institute of Logistics and Transport and The Chartered Institute of Highways and Transportation.

Sponsorship of this event has been kindly provided by WSP and Atkins, Consulting Engineers

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Ed McCann BEng (Hons) ACGI MSc CEng FICE FRSA FIESIS

ICE President

Ed graduated from Imperial College London in 1989 with a degree in Civil Engineering. During twelve years with Binnie & Partners he obtained a Master's Degree in Hydraulic Engineering and worked on some fifty infrastructure projects all over the world.

He joined Expedition Engineering in 2002 where he has been the Project Director for many projects including the multi award winning Infinity Bridge and the Olympic 2012 Velodrome. He currently works on major projects and programs in the UK and internationally where he focuses on strategic engineering design and improving productivity across the asset lifecycle.



Ed was instrumental in the growth and development of Expedition from a “back bedroom start-up” to Building Magazine’s Engineering Consultant of the Year in 2012.

In 2009, Ed and the two other owners of Expedition set up a social enterprise called the Useful Simple Trust and gave the company to the employees. He is now a Trustee of the UST, which has a number of award-winning companies specialising in Engineering, Communications Design, Architecture, Education and Sustainability.

He is a Royal Academy Visiting Professor of Innovation and a member of the UK’s i3P Strategic Leadership Group which is focused on innovating across the built environment.

He co-created cross industry initiatives including: the Constructionarium, the Get It Right Initiative and the Expedition Workshed.

Ed has been actively involved in design education since 1999 and he is a Royal Academy of Engineering Visiting Professor of Innovation.

Along the way he appeared in 35 Television programs on engineering and allegedly has a fan in Japan!

Lee Waters

Deputy Minister for Climate Change Welsh Government



Lee Waters is the Member of the Senedd for the Llanelli constituency. He was born and raised in Carmarthenshire. He was educated in Brynamman and Ammanford and gained a Degree in Politics from the University of Wales, Aberystwyth.

His policy interests are wide-ranging, including the economy, climate change, provision for looked after children, digital policy and the media.

Before being elected in May 2016, Lee was Director of Wales's leading independent think-tank, the Institute of Welsh Affairs. He previously ran the sustainable transport charity Sustrans Cymru where he led the campaign for the Active Travel Act. He is a former Chief Political Correspondent of ITV Wales and BBC Wales producer.

On 13 December 2018 he was appointed Deputy Minister for Economy and Transport. Lee was appointed Deputy Minister for Climate Change on 13 May 2021.



Llywodraeth Cymru
Welsh Government

Alison Thomas

Head of Transport Strategy Welsh Government



Alison Thomas is a chartered transport planner and has spent the last 21 years working in Wales, delivering sustainable transport. Alison has a passion for developing and implementing policies and strategies to meet our necessary zero carbon commitments in a vibrant and inclusive way. Alison has spent the last 9 years working for the Welsh Government and has led on delivering a number of key documents including the new Wales Transport Strategy 2021.



Llywodraeth Cymru
Welsh Government



Emma Thomas

Future Generations Manager, Alun Griffiths (Contractors) Ltd



Emma is an environmental professional with a particular focus on resources and waste related issues. Emma is the Future Generations Manager with Alun Griffiths (Contractors) Ltd, Chartered Waste Manager and CIWM Cymru Centre Councillor. Emma has recently complete a three year term as Commissioner with the National Infrastructure Commissioner for Wales.

Emma is currently devising a long-term sustainability strategy for Griffiths which is paramount to changing the way civil engineering operates, creating a better tomorrow for future generations.

Emma's responsibilities vary from environmental management of recycling and water testing, protecting wildlife and habitats, to implementing practical measures which meet environmental legislation applicable to construction.

It's a dynamic ever-changing environment where it is important to find solutions to problems such as pollution control, waste management and reducing carbon emissions. Emma's role is shaping the future of construction and civil engineering.

David Markham

Senior Manager - Asphalt Technology, Tarmac



maintenance.

David is a Civil Engineer by education but has worked in quarries and with asphalt over 25 years at Tarmac where he is currently Senior Manager Asphalt Technology. He sits on various UK industry groups including BSI committee B/510/1 which covers asphalt products and recently chaired the working group revising PD6691 which is a core UK document for asphalt. He is actively involved with the increasingly important area of the carbon footprint of road construction and



Patrick Warner
Lead Officer for Bus Decarbonisation Liverpool City Council



Patrick joined Liverpool City Region Combined Authority as their Lead Officer for Bus Decarbonisation in March 2021 after just over seven years as Head of Innovation Strategy at Go Ahead Group owned Brighton & Hove Buses and Metrobus in the south east, where he led the successful project development for what will be the largest deployment of hydrogen fuel cell buses in Europe later this year at 54 buses.

Now overseeing the procurement and delivery of Liverpool's first 20 hydrogen fuel cell buses due to start arriving in late 2022, Patrick is also charged with developing the strategy to deliver Metro Mayor Steve Rotherham's vision of a zero-emission bus fleet of 1,200 buses across the city region over the next decade. A strategy which as you will see from the presentation sees Merseyside's big bus fleet become a powerful enabling force for much wider decarbonisation of road transport

Comfort Break



Developing a sustainable transport network through Metro
Geoff Ogden
Director of Planning, Development and Advisory Services, Transport for Wales



Transport for Wales has evolved significantly since its establishment in 2015. This presentation will provide an overview of our development programmes across Wales, supporting our vision to create customer focused services through a safe transport network of which Wales is proud.

There will be an overview of our developing programmes and emerging priorities for the Metros, supporting the National Transport Delivery Plan. Key points of interest will be highlighted from the following programmes:

- North Wales Metro

- West Wales and Swansea Metro
- Metro Central – our work around Cardiff Central and the new bus station
- South Wales Main Line
- South Wales Metro – Cardiff Capital Region

It is anticipated that further sessions will be set up with more detail, for those wanting to understand more, beyond this short briefing across a wide-ranging series of programmes.



The key to Climate Change, Sustainable Communities, Protecting the environment

Kathy Wilson-Ellis MSc MCIEHF

Operations & Safety | M62 J20 to J25 | Human Factors Associate



An exploration of the key to achieving climate change, sustainable communities and protecting and enhancing the natural environment. The common denominator is the human. In order to achieve these ambitious priorities, we need people to change. We need people to want to change and to be willing to change. This is always easier said than done. In order to achieve these changes, we need to explore what people currently do, why they currently do these things and how can we influence them. There isn't a "one size fits all approach" when it comes to humans. We are all very different and have different internal and external factors that shape our decisions our

actions and behaviours. To achieve the changes, we need to approach these challenges with a new, fresh, alternative approach. We need to help today's society to evolve. The key to all of this is to work with the people, bring them on the journey and to be part of the evolution

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Daniel Newall BSc (Hons), MSc - Assistant Consultant, Infrastructure UK & Europe Engineering Design and Project Management Atkins
Enabling Effective Carbon Management in Rail



Under the global climate crisis, changing policy demands are driving an increased prevalence in carbon reduction requirements and Net Zero targets on UK infrastructure projects. The industry is seeing a fundamental shift in the way we work, placing carbon at the core of our project delivery processes. As such, delivery teams are being challenged to find new and innovative solutions to help drive low carbon solutions.

Carbon reduction is, at its simplest, the effective implementation of the carbon reduction hierarchy (Build Nothing, Build Less, Build Clever, Build Efficiently), but realising carbon reductions on major schemes can introduce new challenges. Low carbon solutions present both carbon reduction opportunities and carbon increase risks and can also

impact the wider delivery success of a project. Managing these opportunities and risks effectively is key.

Achieving carbon reduction on a large rail scheme requires a culture and project structure that actively challenges tradition, capitalises on carbon focussed innovation, and delivers an effective pathway for enabling the application of carbon reduction opportunities throughout the supply chain.

This presentation will introduce case-studies to discuss some of the major points in tackling these challenges and enabling low carbon design in the rail industry.

Panel Discussion

Closing remarks by Ken Evans Chair ICE Wales Cymru

Conference closes