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The Institute of Corrosion with The North of England Institute of Mining and Mechanical engineers are pleased to present

INTEGRITY ENGINEERING FOR A SUSTAINABLE FUTURE

Neville Hall, Newcastle, Thursday 22nd - Friday 23rd June 2023



WHY?

As a society, we have progressed from burning wood, to burning coal, oil, and gas. In the process, the energy industry has helped up to 80% of the population out of poverty, but it's clearly not sustainable. We must therefore look at alternative methods for energy and establish efficient ways to deal with effluent from energy processes.

The corrosion control industry has a large part to play in developing sustainable solutions for the energy sector to achieve net zero emissions. We can design systems and procedures that provide corrosion control for the life of the asset, but too often cost becomes the driver in reducing performance from concept to construction. This event addresses the new challenges facing the industry, including how we can continue providing energy, what can be re-purposed, and the effects on sustainable corrosion control solutions.

SPONSORS

We are extremely grateful to our Gold sponsors Carboline and AkzoNobel, and our Bronze sponsor Safinah.

WHO SHOULD ATTEND?

The conference is aimed at anyone involved or interested in effective solutions to further develop a sustainable environment.

OBJECTIVES

To present, debate, and challenge current engineering solutions to meet future environmental requirements. This will also allow participants to understand the value chain, from concept to end use, and the challenges of various players in the energy sector.

WHERE?

The North of England Institute of Mining and Mechanical Engineers (NEIMME) will host the event in the excellent Neville Hall on Westgate Road in the heart of Newcastle city centre. It's ideally located with easy access by train and car, and within walking distance of a number of high standing hotels.

GALA DINNER

We will host a Gala Dinner in the library of historic 19th century Neville Hall. Upon arrival guests will be greeted with a prosecco reception, followed by a three course dinner in the evening of the first day.

WHY THE NORTH EAST?

Newcastle and the North East have been the engine house for the development of energy in Britain over the past few centuries. It's a geographically significant area as a supplier of energy from the North Sea to London, a producer of coal and steel, and in the development of the chemical industry based in Teesside.

It's an ideal location within easy access for delegates travelling from Aberdeen and London, as well as anyone else in the energy sector, from asset owners, fabricators, paint manufacturers, researchers, and applicators. The North East has two carbon capture projects, as well as a significant offshore wind farm 0.5 miles off the coast of Blyth.

- **BP** – Net Zero, Teesside
- **ENI** – Hynet North West, Liverpool Bay

FIELD TRIPS

Field trips have been organised for the following day as part of an optional event limited to 40 guests, who will visit:

Ore Catapult → It's the largest wind turbine research and test centre in the world today, which this year celebrates its 10th anniversary

Bates Colliery → Where they have the capability to generate 5MW of energy from the mine water

COST

The cost to attendees attending the event is minimal thanks to the generosity of our sponsors

- To attend the conference in person or online it is only **£50 per person**
- To attend the conference and Gala Dinner it is **£75 per person, or £50 for ICorr members**



OPENING ADDRESS	WELCOME	WHY?
Keynote Speech	Prof Jon Gluyas – Durham Earth Sciences	Energy – A Sustainable Future Built on an Unsustainable Past
Session 1: Carbon Capture	BP – Net Zero Teesside ESR Technology	The Challenges of Developing a Carbon Capture Project Non-Destructive Testing Challenges in the Net Zero World
Session 2: Offshore Wind	European Energy Safinah/Wood Thilsted Reblade Aps	Offshore Wind Turbine Foundation Corrosion The Most Sustainable Combinations of Corrosion Control for Offshore Wind Turbines Flying Drone Repair of Wind Turbine Blades – Better, Safer & Faster
Session 3: Advances in Materials and Reuse	Rosen Group Carboline	Reuse of Existing Pipeline Network for the Transportation of Hydrogen Advances in Wind Blade Coatings and Testing
Session 4: Developments in Anti- Corrosion Coatings	AkzoNobel Stopaq	Development of Coatings to Last the Life of the Asset Alternative Corrosion Control Mechanisms



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