With the development of new industry sectors such as renewable energy, the focus on how corrosion knowledge is transferred has come under scrutiny. Mature industries such as oil and gas production have well established good practices, codes and standards to ensure compliance for the safe and efficient design and operation of assets.

- Are the tried and tested oil and gas guides and standards transferable to other industries?
- Are other industries guides and standards transferable to oil and gas?
- Are there opportunities for common guides and standards?
- How does the information learnt from one industry get transferred to another?
- Are lessons learned from operations being fed back into new designs to improve safety and reliability?

The Institute of Corrosion (Correx Ltd) and NACE GB recognise that to improve safety and reliability in different industries there is a need to improve the flow of knowledge transfer between them. This workshop can be considered the start of this process. By bringing together delegates from diverse industries, case studies can be used to identify potential areas of commonality and the best routes for knowledge transfer.

**Workshop**

The aim of the workshop is to provide delegates with an understanding of how information flows within industries, and how they can take other industry practices and deploy them in their own fields. This can be within a project, within industry sector or across industries.

The presentations from internationally recognised leaders in the field, and in group discussions will endeavour to answer some of these questions by focusing on selected areas within the corrosion management disciplines.

Workshop endorsed by [Energy Institute](#)
# Knowledge Transfer
## Corrosion Matters Workshop

### Workshop Description

**Wednesday 10th June**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Chair</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Registration and Breakfast</td>
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<tr>
<td>08:30</td>
<td>Key Note Speaker: Dr. Alan Turnbull, National Physics Laboratory</td>
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</tbody>
</table>
| 09:00 | Session 1: Corrosion Management and the Law | Chair Andrew Duncan  
  **Speakers:**  
  Andrew Duncan - Lead Consultant, Intertek Production & Integrity Assurance  
  Cameron Stewart - Upstream Technology Manager, The Energy Institute |
|       | This session will offer an introduction to Health and Safety Laws and Regulations, and supporting technical guidance documents, pertaining to corrosion management of offshore and onshore hazardous installations in Great Britain, including:  
  - Offshore hydrocarbon production installations  
  - Onshore refineries and petrochemicals  
  - Hydrocarbon pipelines corrosion management  
  - Offshore wind turbines corrosion management |                                                   |
| 10:30 | Coffee                             |                                                   |
| 11:00 | Discussion Session                |                                                   |
|       | • Are there too many overlapping regulations for corrosion and integrity management?  
  • Should the Government consider amalgamating and simplifying these regulations?  
  • Should the UK consider a hybrid of Britain’s goal setting regime, and Norway’s slightly more prescriptive regime? |                                                   |
| 12:00 | Lunch                              |                                                   |
| 13:00 | Session 2: Continuous Whole Life Corrosion Management | Chair Don Harrop  
  **Modelling, Prediction & Inhibition**  
  **Speaker:**  
  Professor Anne Neville - School of Mechanical Engineering, University of Leeds  
  - When and where is corrosion and erosion modelling/prediction applicable and who’s responsible; and can inherent conservatism therein be safely redressed in practice?  
  - Inhibition is never a fit-and-forget option but when does it become not fit-for-purpose? |                                                   |
|       | **Monitoring, Inspection & Data Management**  
  **Speakers:**  
  Mark Stone - Head of Integrity Support Services, Sonomatic  
  Steve Kinnear - Product Manager, Wood Group Integrity Management  
  - The need for innovative technologies/system designs that truly deliver meaningful ‘right time’ condition indictors/rates while minimising the need to be intrusive?  
  - How effective are data management IT systems in delivering “added value and peace of mind” or are they hung up on trying to be too “smart and commercially” driven? |                                                   |
| 15:10 | Coffee                             |                                                   |
| 15:40 | Organisational Construct/Competency and Lessons Learnt | Speaker:  
  John MacDonald, Staff Corrosion Engineer, Chevron Technology Group  
  - What best delivers success and constitutes best practice; and what can get in the way?  
  - Are lessons learnt in a timely, open/sharing, meaningful and enduring fashion; and what can get in the way? |                                                   |
| 17:00 | Close of first day                 |                                                   |
| 17:00 - 19:00 | Networking event, including poster presentations |                                                   |
## Knowledge Transfer

### Corrosion Matters Workshop

**Thursday 11th June**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Chair</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Arrival and Breakfast</td>
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<tr>
<td>09:00</td>
<td><strong>Session 3: Integrity through Corrosion and Materials Design</strong></td>
<td>Mike Surkin</td>
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<td></td>
<td>Speakers:</td>
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<td></td>
<td>Jim Britton - CEO, Deepwater Corrosion Inc.</td>
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<td></td>
<td>Polina Zabelina - Corrosion Engineer, BP</td>
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<td></td>
<td>How to obtain superior long term operational integrity? One good answer is to select the correct materials, operate the process as intended, include a well thought out and implementable corrosion control program and develop/conduct a sound inspection and maintenance plan. Each item individually seems simple, but is deeply impacted by the initial design. How to get the initial design appropriate for the operational requirements can at times be complex. Often, the term life cycle costs, are highlighted when developing a materials selection philosophy and corrosion control program. But, is this what the industry really does and does it bring value? Also, where do Industry Standards or corporate specification fit in? What is the best approach to achieve the needed operational integrity?</td>
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<tr>
<td>10:30</td>
<td>Coffee</td>
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<tr>
<td>11:00</td>
<td><strong>Discussion Session</strong></td>
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<td>The goal of this session is to discuss the above issues and determine if it is believed better integrity will result if they are properly analysed. What are some good materials selection and corrosion control design philosophies and have they worked? Is age demographics impacting or going to impact the materials and corrosion industry? What is the role of the education process in developing the next generation corrosion and materials engineers? In essence how to get it right to bring value to our companies.</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
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<tr>
<td>13:00</td>
<td><strong>Session 4: Corrosion Inhibition</strong></td>
<td>Alyn Jenkins</td>
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<td></td>
<td>Speakers:</td>
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<tr>
<td></td>
<td>Gareth Hinds - Principal Research Scientist, National Physical Laboratory</td>
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<td>Dr. Paulette Sidky – Managing Director, CMC Ltd</td>
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<td>Trevor Hughes – Scientific Advisor, Schlumberger Research</td>
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<td>Chemical treatments are used in many industries to mitigate corrosion. In oil and gas production corrosion inhibitors, oxygen scavengers and H2S scavengers are used to control corrosion in addition to other chemical treatments that are used to control scale and maintain oil flow. Furthermore, chemical treatments are required when drilling for oil and gas and also needed for matrix acidisation operations. In the water treatment and geothermal energy industries, corrosion and scale inhibitors are widely used and corrosion inhibitors also have potential application in carbon capture and storage developments. The session will cover in detail the lessons that have been learnt from several industries with respect to corrosion inhibitor testing, inhibitor application and performance monitoring of chemical treatments in the field. The session will also aim to highlight what technologies can be transferred from one industry to another.</td>
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<tr>
<td>15:00</td>
<td>Coffee</td>
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<tr>
<td>15:30</td>
<td><strong>Session 4 continued:</strong></td>
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<td></td>
<td>• CI’s for carbon capture – How are lesson learned from other industries being applied to this sector?</td>
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<td></td>
<td>• Geothermal –is the knowledge here relevant to O&amp;G or power industries especially as oil is now produced from wells &gt;200C?</td>
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<tr>
<td></td>
<td>• Workshop - How can this information be applied across industries, what is the best way to disseminate this information?</td>
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<tr>
<td>16:00</td>
<td><strong>Workshop wrap up – George Winning</strong></td>
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<tr>
<td>16:45</td>
<td>Closing remarks</td>
<td></td>
</tr>
</tbody>
</table>
Knowledge Transfer
Corrosion Matters Workshop

Chairman

George Winning
George has been working in the corrosion sector for 27 years covering chemicals, corrosion and materials. He currently works for Premier Oil in London, working on the Sealion Project in the Falklands as the Senior Corrosion materials Engineer. He has been active with ICorr and NACE over the years and sits on the council of the Institute of Corrosion and is also on the board of directors of the NACE Institute.

Workshop Vice Chairman

Pat Stokes
Pat is a Chartered Marketer with a degree in Applied Chemistry from the University of Portsmouth and a PhD in Corrosion Science and Engineering from UMIST. Pat has 25 years’ experience in the Oil and Gas and energy related industries and has worked for CAPCIS, Emerson, Bodycote and AMEC. He is a member of ICorr and CIM. He has specialist knowledge of materials testing, corrosion monitoring and corrosion management. He is currently Technical Sales Manager with MACAW Engineering Ltd.

The Session Chairs

Don Harrop
Don is currently director of his own independent consulting company (CorroDon Consulting Ltd) in the UK and a Visiting Professor at the University of Manchester in the School of Materials, having retired from BP at the end October 2011 after a 34 year career. During his time with BP Don worked variously in R&D, technology and central engineering finally as Upstream Engineering Technical Authority and Senior Advisor for materials & corrosion and chair of BP’s Upstream Innovation Board.

Mike Surkein
Michael Surkein has over 33 years’ experience with ExxonMobil as a Corrosion / Materials Specialist with a background in corrosion control, cathodic protection, coatings and linings, pipe coatings, inspection and material selection among other skills. Mike is currently the Senior Corrosion and Materials Consultant for ExxonMobil Development Company and acts as an advisor across all ExxonMobil Upstream Companies.

Andrew Duncan
Andy Duncan is a Chartered Engineer with a degree in Metallurgy and Materials Science from Nottingham University, and has been a practising Materials and Corrosion Engineer for over 30 years. He is a member of ICorr and IOMMM.
Andy has worked for BP, CAPCIS, Associated Octel, and The Health and Safety Executive where he led the KP4 programme on ageing and life extension of offshore installations. He recently joined Intertek Production & Integrity Assurance as Lead Consultant with responsibilities for asset integrity management of ageing hydrocarbon plant and equipment.

Event sponsored by:
Alyn Jenkins has been working in the oil and gas industry for 17 years specialising in corrosion. His main areas of interest are the development, application and performance monitoring of corrosion inhibitors. He is currently employed as an Integrity Management Principal with M-I SWACO where he acts as a consultant on global corrosion projects having previously worked for Baker Hughes and Clariant Oil Services. He has been active with NACE for many years and currently serves as NACE Chair for the Specific Technology Group on Corrosion and Scaling Inhibition.

Workshop Guidelines

Student Poster Session

There will also be student poster session with 10 posters being selected for a presentation at the workshop along with free attendance as well as a prize for the best poster.

Documentation

In order to encourage the exchange of ideas, including work in progress, new concepts, joint industry projects and unpublished project work, there will be no formal handouts. We will be requesting that the speakers share their presentations where possible, however this will be at their discretion and therefore we do not guarantee copies of presentations will be available to take away. Being a workshop the participation and learning from your peers will be of more value than formal handouts.

Attendance

The workshop is aimed at Corrosion Engineers, Technologists, Safety Engineers, verification bodies and academics.

To facilitate the exchange of information and encourage involvement of all, the audience will be limited so delegates will be accepted on a first come first served basis. The workshop committee are encouraging an audience with a broad mix of regions, experience, and disciplines, so if you feel this would be a good event for you and you are willing to participate in the discussions we encourage you to book early.

We are also offering a number of places at a reduced rate of 10% of the normal delegate fee to students.

Commercialism

In keeping with the ICorr and NACE principles, commercialism in the presentations will not be permitted and the chairman of each session will be vetting them for this.

Accommodation

We have partnered with the Millennium Hotel Mayfair, Grosvenor Square, London (http://www.millenniumhotels.co.uk/millenniummayfair) to provide a reduced rate to conference attendees of £240.00 per night. This rate includes breakfast and Wi-fi access throughout your stay. Please quote group booking code INST100615 in order to secure your accommodation at this price. Rooms at this rate will be available to book until Monday 11th May 2015 and will be allocated on a first come first served basis.

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Knowledge Transfer
Corrosion Matters Workshop

Sponsorship opportunities

As part of the workshop we have number of sponsorship and exhibit opportunities for companies and individuals, the details of which are outlined below. For more information or to sponsor this event contact admin@icorr.org

<table>
<thead>
<tr>
<th>Level</th>
<th>Package includes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold Package</td>
<td>Your name on all marketing, the chance to put up a banner at the workshop, plus a delegate place</td>
</tr>
<tr>
<td>Silver Package</td>
<td>Name on all marketing and chance to put up a banner at conference</td>
</tr>
<tr>
<td>Bronze Package</td>
<td>Banner at conference</td>
</tr>
<tr>
<td>Coffee break (4 opportunities)</td>
<td>Name noted at one of the coffee breaks and announced during the workshop and at summing up</td>
</tr>
<tr>
<td>Lunch (2 opportunities)</td>
<td>Name noted at one of the lunch break and announced during the workshop and at summing up</td>
</tr>
<tr>
<td>Evening networking event (1 opportunity)</td>
<td>Company mentioned and noted as per silver sponsor</td>
</tr>
<tr>
<td>Desktop exhibit (10 opportunities)</td>
<td>Put up a desktop exhibit in the lunch and coffee break hall</td>
</tr>
</tbody>
</table>

The Committee

The committee for the workshop consists of number of leading names in the corrosion and materials industry.

George Winning  
Premier Oil Exploration and Production Ltd.

Pat Stokes  
MACAW Engineering Ltd.

Dr. John Broomfield  
Broomfield Consultants

Andrew Duncan  
Intertek Production & Integrity Assurance

Alyn Jenkins  
MI Swaco

Don Harrop  
CorroDon Consulting Ltd.

Gemma Malthouse  
AkzoNobel

David Mobbs  
Wood Group Kenny Ltd.

Imma Mobbs  
Independent

Trevor Osborne  
Deepwater Corrosion Services (UK) Ltd.

Dr. Paulette Sidky  
CMC Ltd.

Mike Surkein  
ExxonMobil Development Company

Sarah Vasey  
AkzoNobel

Event sponsored by:
# REGISTRATION FORM

<table>
<thead>
<tr>
<th>Title</th>
<th>Company</th>
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<tbody>
<tr>
<td>Surname</td>
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<tr>
<td>First name</td>
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</tr>
<tr>
<td>Address</td>
<td>Billing address (if different)</td>
</tr>
<tr>
<td>Contact email</td>
<td>Contact telephone No.</td>
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</table>

I would like to book (Delete as appropriate)

<table>
<thead>
<tr>
<th></th>
<th>Full Member</th>
<th>Full Non member</th>
<th>Student*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registrations for the Knowledge Transfer - Corrosion Matters workshop in June 2015</td>
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<td></td>
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</tbody>
</table>

If you are student and would like to present a poster with free admission please send poster title*

<table>
<thead>
<tr>
<th>Student Poster*</th>
<th>10 posters to be accepted for presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poster title: Use attachment if required.</td>
<td></td>
</tr>
</tbody>
</table>

* Please attach a copy of current Student identification
# Poster submission required by the 15th April 2015

The cost of attending the workshop will be £500.00 + VAT (£600) for members of ICorr and NACE and affiliated associations and £550.00 + VAT (£660) for non-members, Student registration is £50 + VAT (£60).

Please note that it is not possible for ICorr to invoice you in advance for the workshop fee. Advanced booking is required and is on a first come first served basis with a maximum of 75 for full registrations and 10 for student registration.

If paying by credit card enter card details overleaf and return the two forms for registration.

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Event sponsored by:

[Logo Images]
Knowledge Transfer
Corrosion Matters Workshop

Credit/Debit Card Authorisation
Please debit my Credit/Debit Card

Name on card…………………………………………………………

Card Number

Expiry Date 3 Digit Security No.

Signed………………………………………………………..  Date…………………………………………..

If paying by cheque please send them to the address below payable to “Correx Ltd”.

Correx Ltd
The Newton Building
St George’s Avenue
Northampton
NN2 6JB

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