



# 'State of the Nation'

ICorr London Branch Thursday 14th  
March 2024

President – Stephen Tate



# ‘State of the Nation’

An update on my first year in office and the Institutes forward plans for 2024 - 2025.

This will cover all key areas of ICorr’s operations both in the UK and overseas, **including** - Awards, Bursaries, Chartership Schemes, Development and Reactivation of our Branches, Divisional Activities, External Audits, External Representation. Financial Security, Members Feedback, New Roles and Personnel, Sponsorships, New Courses and Training Activities, YEP, YICorr and most importantly how these will all play a part in **planned succession, member engagement and diversity within our Institute.**

Although we have transitioned successfully out of Covid **and are financially secure**, much hard work remains to be done. There will be of course an opportunity for you to ask questions after the Presentation.



# Successful Audits x 3

- a. June 2023 – Approval for the Institute as an Engineering Council CEng Professional Affiliate for a further Five Years (to Jun.28). CEng Direct pending / application made to EC.
  
- a. October 2023 - Approval for the Institute ISO 9001 Certification for a further Three Years (to Jan.27).
  
- a. November 2023 - Approval for the Institute as a Science Council CSci Licence Holder for a further Five Years (to Nov.28).

### **3 in a Row!**

Great work by all involved in achieving this amazing outcome for 2023.

**Special Thanks** – David Harvey / Anthony Setiadi / Bill Hedges / Kevin Harold / Brenda Peters / Paul Lambert / Yunnan Gao, Jane Lomas and HQ Team.

Follow-ups for Future Audits and other improvements being progressed.

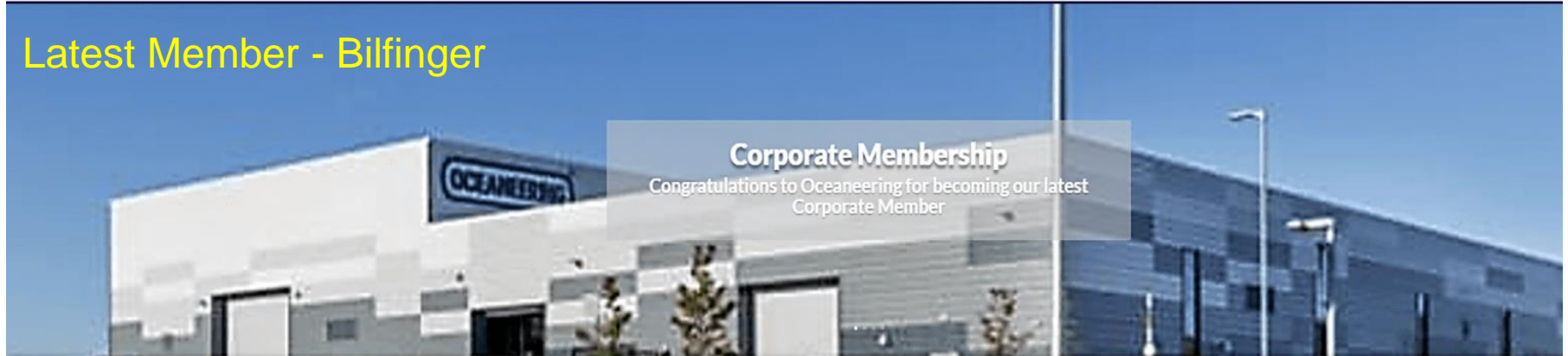


# Company Sponsorships and Memberships

Summary	No Representatives per Co.	
Company Category		Total 2023 Income (£)
Gold Sustaining	3	16,102.00
Standard Sustaining	2	28,260.00
Corporate	5 or 10	18,002.00
Branch (Aberdeen)	2	5,100.00
	<b>Total (£)</b>	<b>67,464.00</b>

## New Corporate Grade – Growth

Latest Member - Bilfinger



### Why become a Corporate Member?

Benefits of Corporate Membership include:

- The option to have as many employees as required in the program (the minimum number is 5).
- Each employee receives a copy of the Institute's Corrosion Magazine (6 copies/year)
- Advertising in Corrosion Management Magazine and listing in the ICorr Website Members Directory free of charge
- Access to Career Development & Progression Programme (CDPP) and to the Institute's Online Resources and Libraries
- Discount of 10% on all Conferences and Symposia and selected ICorr Training courses
- A free table at the annual ICorr London Branch Christmas luncheon
- *Note: Employees of corporate members can be at any grade of ICorr membership depending on their qualifications*

[DOWNLOAD BROCHURE](#)

Income Value – 4x that of Sustaining Member

Total Members: **around 1,500 members pres.**

### Includes

- Student Members: 25%
- Sustaining Members: 30% (inc. Gold)
- Corporate Members: 5% (4 new companies)
  
- **Balance** Individuals





ICorr Divisions, Awards and Events, CED (Danny Burkle and CSD (Julian Wharton).

## **U R Evans Award – 2023, Prof. Nick Birbilis (Deakin University, Australia)**

This is the premier scientific award of the Institute of Corrosion. It was first awarded in 1976 and is made for outstanding international achievements in pure or applied corrosion science. The recipient is selected by a Corrosion Science Division panel and presented with an engraved sword at the annual Corrosion Science Symposium. The recipient also receives an Honorary Life Fellowship of the Institute.

## **Paul McIntyre Award – 2023, Dr Roger Francis**

The Paul McIntyre Award is the premier engineering award of the Institute of Corrosion. It was first awarded in 2017 and is presented to a senior corrosion engineer, who, as well as being a leading practitioner in his field, has advanced European collaboration and international standards development.

## **H G Cole Award – 2023, Trevor Osborne**

This presentation is in the form of a plaque and is for exceptional services to the development of the Institute.

## **Lionel Shreir Award – 2023, James Rafferty, UoM Student**

Dr Shreir was also a recipient of the U R Evans Award and this award is made for the best student presentation at the annual Corrosion Science Symposium.

As being a leading practitioner in his field, has advanced European collaboration and international standards development.

# 2023 - Corrosion Engineering Division (CED)



Professor Alison Davenport  
(University of Birmingham)





# 2023 - Corrosion Engineering Division (CED)



•Awards – Apr. 23



London – Apr. 23

# 2023 - Corrosion Science Division (CSD)





# 2023 - Corrosion Science Division (CSD)

**Birmingham**  
**Nov. 23**





# Branch Development

2024 Forward Growth Strategy/Membership  
Engagement



•Aberdeen (Scottish) Branch



Newcastle (North-East) Branch



Manchester (North-West) Branch h



•Sheffield (Yorkshire) Branch



Birmingham (Midlands) Branch



•London Branch

•ICorr Branch Review Post Covid





## Key Attributes:

**Launching Q1 2024**

Covering a region with a hugely diverse range of business sectors, including:

- Aerospace
- Chemical Plants
- Construction Products
- Energy Production
- Oil & Gas
- Petrochemical
- Renewables
- Steel and Metal manufacturing
- Universities

Events – Planned to Rotate around Wales and South-West England e.g. Bristol

Events – To be Based at INEOS Training Centre



## Key Attributes:

Launching Q3 2024

Covering an Industrial region with a hugely diverse range of Downstream Businesses, including:

- INEOS Chemicals business comprises a large ethylene cracker with downstream plants producing ethanol, polyethylene and polypropylene. Also producing a wide range of petrochemicals, fuel and oil products, including: - petrol/gasoline; diesel; jet fuel; heating oil.
- Completing the INEOS Grangemouth industrial complex is the recently acquired Forties Pipeline System that delivers almost 40% of the UK's North Sea oil and gas production.



## Key Attributes:

Launching Q4 2024

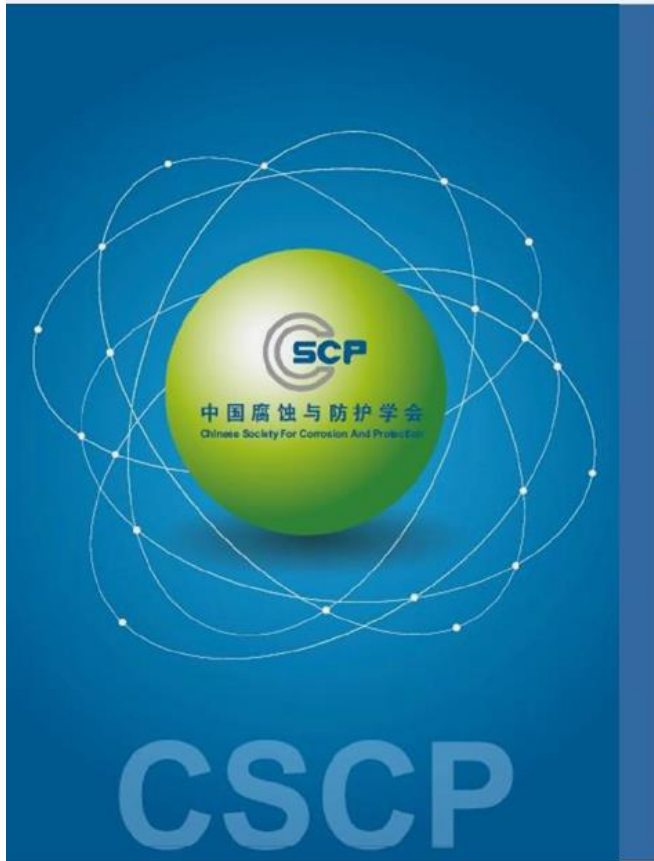
Targeting a region with a hugely diverse range of Corrosion related Businesses, including:

- Construction Facilities
- Consulting Engineers
- Energy Operators
- Major Infrastructure Projects and Contractors
- Verification Bodies
- Universities

Events – Planned to Rotate across Key Middle East Locations with UAE as Hub, once Full Committee in place.



# Global Co-operation MoU's Being Explored



## Chinese Society for Corrosion and Protection (CSCP)

Yunnan will be visiting  
Beijing (CSCP) in August and  
also TUV (ICorr Training Partner)



Other Discussions (YG/ST) to Grow the Institute Overseas. Further Mtgs. planned for April and August to Develop a Cooperation and Training Partnership / MoU.

- CSCP is a member of **International Corrosion Council** and **World Corrosion Organization**
- CSCP is the co-founder of **Asian-Pacific Material & Corrosion Association**



# Forward Growth Strategy - 24

ICorr London Branch - Thursday 14th March 2024



Members Name	MICorr Memebership Nos.
Bayu Aji	207271
Aqeel Ul Qadar	206942
Abdul Waheed	206735
Abdul Rizwan Abdul Samad	206229
Abdul Kayum Shaikh	207247
Shaikh Mohammed Ali	206668
Mohammed Ikram	207163
Arun Salunkhe	206296
Elayaperumal Rajamani	206798
Ranjeet Singh	207377



Other Discussions (YG/ST) with Qatar University with a view to Training and MoU Development

There are 2 planned UK **Joint AMPP / ICorr** Events – **Aberdeen (May 24)** and **London (Jan 25)**



**AMPP 24** – Juan Caballero (VC) and Marco Castillo (Roemex / Leeds University)

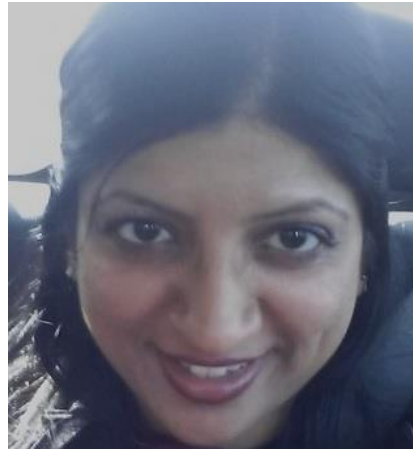


**AMPP 24** – Keynote Lecture

Other ongoing Discussions (ST) with AMPP with a view to Training and MoU Development



**AMPP 24** - Phoebe Hsueh (Manager Global Operations) and Stuart Bond (European Manager)



ICorr ABZ / AMPP:

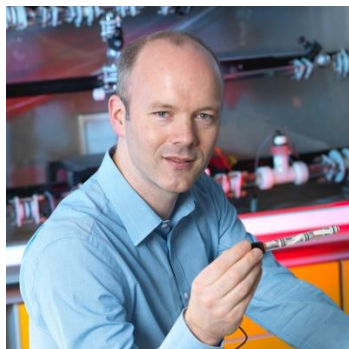
Online: Tuesday 28/05/2024

- **Synopsis of Upcoming Talk: Susan Jacob, OneGas, Tulsa, Oklahoma**
- OneGas is over 100 years old. Over the years there have been acquisitions/takeover/spinouts of the company. This has resulted in inheriting multiple vintage pipeline systems with different coating types with poor historical records.
- **As part of reducing risk in the system**, efforts are being made to record the different coating types and determine their performance. Susan is currently in the process of studying the different coating types in order to determine their proportional hazards.
- These considerations will then be input into the company's risk assessment model.
- **This model will then be then integrated into the prioritisation of inspection / maintenance / replacement work plans.**





Gareth Hinds – Vice President



Gareth Hinds – President



PARIS, FRANCE, 1-5 SEPTEMBER 2024

Motto:

**EFC Event No. 495**  
organised by CEFRACOR  
Venue: Palais des Congrès de Paris

The call for papers is closed.

- **TOPICS/Sessions** (Working Party Sessions and special Workshops)
- **Plenary Lectures**
- **Sponsorship and list of sponsors**
- **Join the exhibition! -> Information for exhibitors**

**REGISTER NOW!**

Early-bird registration deadline: 15 June 2024

SAVE THE DATE:

- **EUROCORR 2025**  
7-11 September  
2025,  
Stavanger,  
Norway
- **EUROCORR 2026**  
6 - 10 September  
2026  
Dublin, Ireland

Previous  
EUROCORRs



# ICorr Bursaries and Internments



The University of Manchester



## University of Manchester - New 5 Year Scheme Launched 2023

The Institute of Corrosion (ICorr) is providing prestigious scholarships at UoM to promote corrosion awareness and **to address the shortage of corrosion engineers and scientists worldwide.**

There are **2x MSc** scholarships available for September 2024 entry, each scholarship is worth £8,500 and is awarded as a tuition fee reduction. All those holding an offer for a UoM MSc in Corrosion Control Engineering are eligible to apply for this scholarship. The scholarships will be allocated based on the information provided in the application form, which will be emailed to all offer-holders.

The deadline to apply is 1 August 2024. If you have any queries about this scholarship, please contact the [PGT Admissions team](#) and <https://www.icorr.org/new-university-of-manchester-bursaries-scheme/>

There are also **4x Undergraduate Scholarships available.** ICorr will provide £2,000 bursaries for undergraduate (UG) students. The UG scholarships will be allocated in December 2024, which is when the final year students will choose the options for the second semester, (they can choose up to 3 Corrosion units).



## **SAIF RAMY, ICORR INTERNSHIP STUDENT**

The Young ICorr Internship (Anne Neville Award) has also been sanctioned for support by ICorr Council at University of Leeds with additional funding kindly provided by LBBC Baskerville. The winning ICorr Student member Saif Ramy will commence his internship on 3rd July for 10 weeks. We offer our many congratulations to him and sincere thanks to Danny Burkle for arranging this and also to LBBC Baskerville for their support.

Commenced Summer 2023



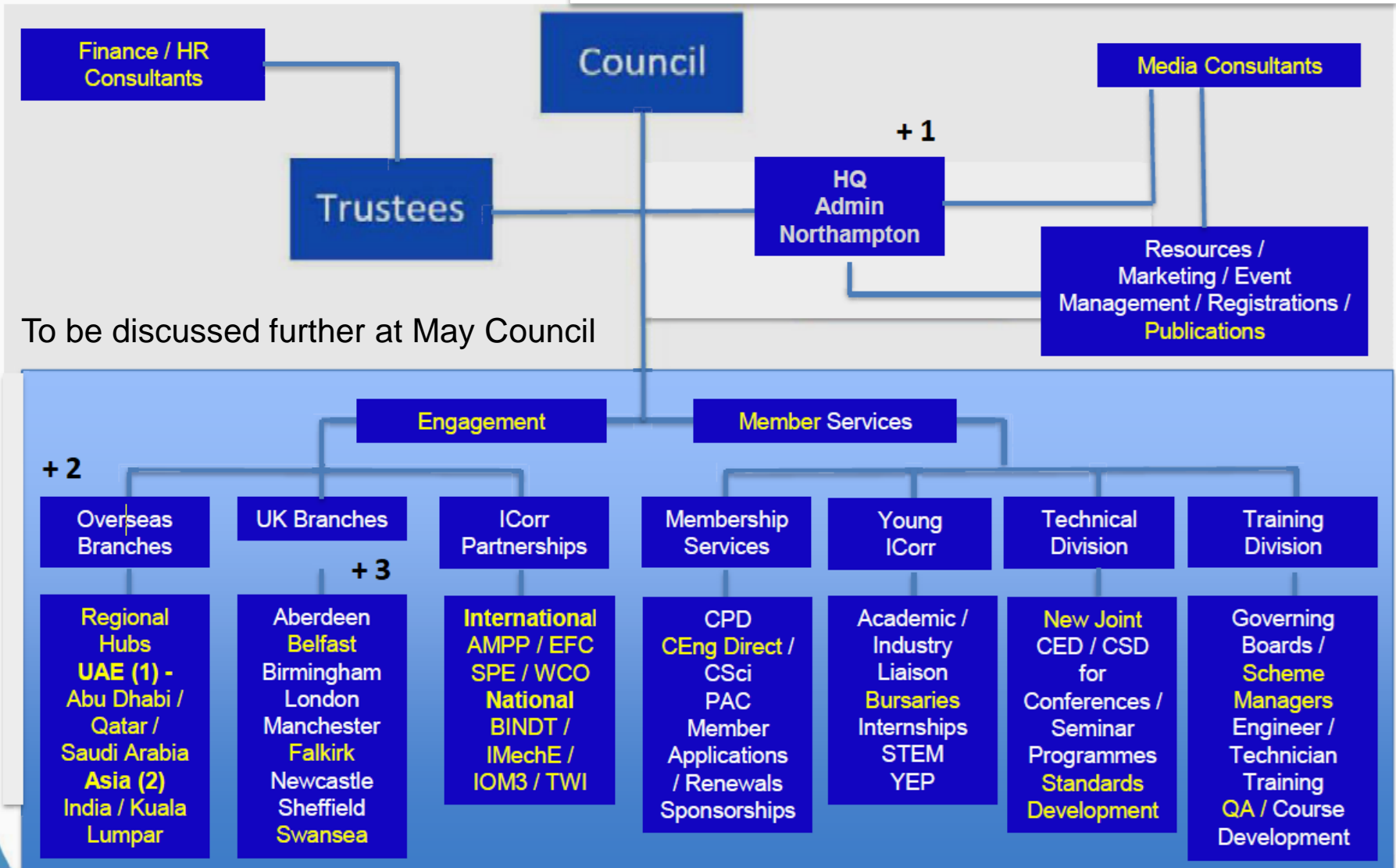
# New Roles and Personnel

Feb. 2024 Forward Growth  
Strategy/Membership Engagement

# ICorr Forward Strategy and Organigram

ICorr London Branch - Thursday 14th March 2024

Existing Structure: Possible Changes:



To be discussed further at May Council





# New CEng Direct

Preparations Ongoing

## Volunteer Assessors



The Institute of Corrosion is currently in the process of becoming a Full Licensee of Engineering Council, in order to be able to provide CEng, IEng and EngTech, directly through ICorr in future. **This will be a major improvement to our membership offering and member retention.**

We are now looking for Professional Registration assessors (for both Applications and Interview assessment purposes).

- **Are you Engineering Council registered at CEng level?**
- Do you want to give back to the profession by helping the next generation of engineers achieve professional registration?
- **We are looking for volunteers** to become Professional Registration Interview (PRI) assessors who will be reviewing, assessing, and interviewing applicants.

By giving us your time, you will be doing vital work ensuring the future of the profession. All we need from you is 6 hours of your time per month.

If this is of interest to you, please contact: **F.A.O Anthony Setiadi** [admin@icorr.org](mailto:admin@icorr.org) and he will be in touch with you about the next steps.





# ICorr + Correx Training

## Operative



## Technician



## Inspector / Supervisor



## Engineer



# ICorr Engineering Courses – (CEng/CPD)

## Microbiologically-Influenced Corrosion Training Course



The Institute of Corrosion (ICorr) has developed the only known certified Microbiologically-Influenced Corrosion (MIC) training course to meet increasing industry demand, avail of latest technologies, and share best practices, to control the spiralling and highly damaging MIC cases across different industry sectors.

Bio-corrosion or MIC is a costly and devastating problem. It can occur in systems with traces of water. It is caused by sessile microorganisms on metal surfaces altering the kinetics of the electrochemical process.



MIC is the least understood corrosion phenomenon  
The annual cost of MIC is estimated at USD 2.5 billion in oil and gas industry  
Microbes thrive in various industrial systems and pipelines  
MIC is predominantly manifested as severe localised corrosion (pitting)



The course is designed with theoretical and practical modules for three different levels of proficiency

### Certified MIC Technologist

- A five-day course including certification exam
- ICorr-Certified MIC Technologist

### MIC Technologist

- A four-day course
- Attendance certificate

### Awareness

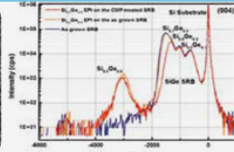
- One-day course
- Attendance certificate

Advance your career with the internationally recognised ICorr certification programme and effectively protect company assets from a highly damaging corrosion phenomenon

### Who should attend

The course is of benefit to industrialists and academia with interest in research and applications

- Management and stakeholders
- Corrosion engineers and industrial microbiologists
- Scientists and researchers
- Technical staff and laboratory technicians
- Inspectors and assets managers
- Students



### Courses cover various aspects of MIC

- Theories and mechanisms
- Corrosion causing microorganisms
- Monitoring technique
- Mitigation methodologies
- Affected materials
- Identification and managing MIC
- Practical session
- Case studies

Identification	Internal Scale
Description	Solid
Sample quantity	0.05203 grams
Sample code	Surrounding Surface Film
<b>Microbial Count/Measuring Unit</b>	<b>#/gram</b>
Total bacteria	1.03E+08
Total archaea	7.94E+05
Sulfate-Reducing Bacteria (SRB)	Below Detection Level
Sulfate-Reducing Archaea (SRA)	9.27E+04
Acid Producing Bacteria (APB)	1.20E+05
• Acetic acid producing bacteria	1.18E+05
• Butyric acid producing bacteria	1.93E+03
Iron Oxidising Bacteria (IOB)	2.67E+06
• Leptothrix & Sphaerotilus species	2.67E+06
• Gallionella species	Not Detected
Denitrifying Bacteria (DNF)	2.22E+05
Methanogens	Not Detected

Courses can be delivered either at our Northampton HQ or at your company premises

Scan the QR Code for registration / payment  
Tel: +44 (0) 1604 438222

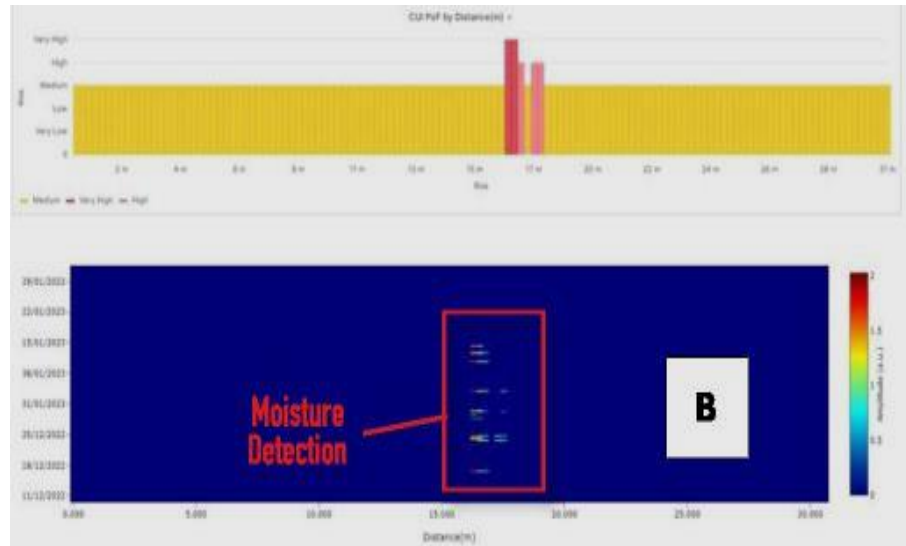
**email:**  
[admin@icorr.org/www.icorr.org](mailto:admin@icorr.org/www.icorr.org)



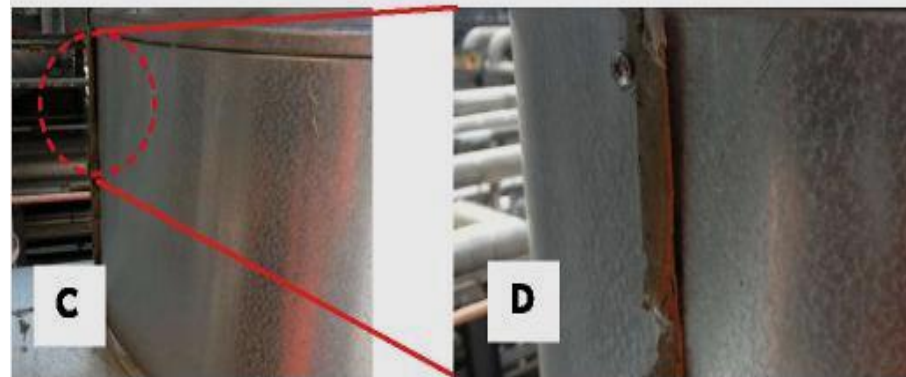
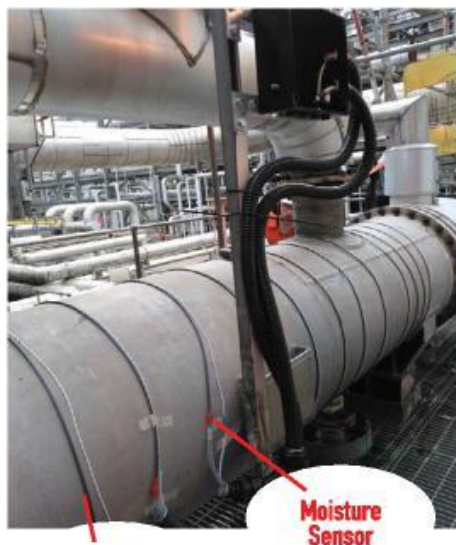
## Currently 3x Courses Planned:

- April – Northampton
- June – Alberta (In-Company)
- TBC – MTD Cardiff (In-Company)
- Online has been discussed with IMechE





- (BH) Under Discussion with Clare Watt



## Future CUI Course



# ICorr Engineering Courses

New Short 1- 3 Day

**Courses** (ICorr supporting lab work with additional site images)



## Corrosion – Cooling Water Systems

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Slides, Case Studies and Attendee Exercises

[WWW.R-TECHMATERIALS.COM](http://WWW.R-TECHMATERIALS.COM)

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## Fireside Corrosion Mechanisms

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Slides, Case Studies and Attendee Exercises

[WWW.R-TECHMATERIALS.COM](http://WWW.R-TECHMATERIALS.COM)

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## Waterside Boiler Failures

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Slides, Case Studies and Attendee Exercises

[WWW.R-TECHMATERIALS.COM](http://WWW.R-TECHMATERIALS.COM)

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# CORROSION MECHANISMS IN STAINLESS STEELS

Slides, Case Studies and Attendee Exercises

We have BSSA Agreement for ICorr Involvement

R-TECH  
MATERIALS



INSTITUTE OF CORROSION

# New CP Training Facilities – Being Explored





Discussions initiated at **FOW Exhibition** (Oct.23) between President (on behalf of CPGB) and Trustees of **Aberdeen North and South Harbour's**, for additional Marine CP Training. **Agreed in Principle.**

## Robotics and Autonomous Systems Testing and Validation



Testing and validating tomorrow's robotic and autonomous maintenance solutions.

- Marine Robotics & Autonomous Systems Testing
- Contact systems testing

Discussions initiated by Brian Wyatt and Josie Watson of CPGP, for additional Marine CP Training at Blyth. **Agreed in Principle.**



The Catapult's National Offshore Anemometry Hub (NOAH), off the coast of Blyth, Northumberland.





# YICorr and YEP

# Young ICorr Mission Statement

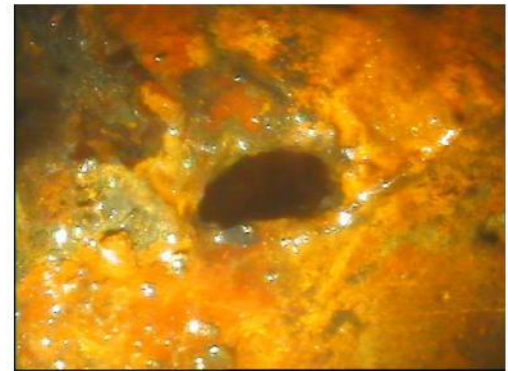
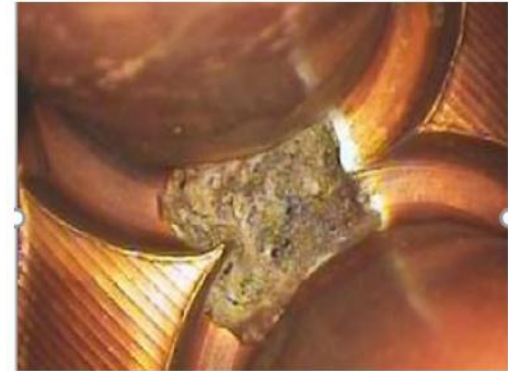
- The intent of Young ICorr is **to link the network of younger professionals** who are either working or interested in the field of corrosion.
- Key demographic for Young ICorr is members of ICorr who are **35 and under**, however non-members are also encouraged to join.
- One of their most important roles is management of our YEP – 12M Young Engineer Programme.

•Collaboration Meeting 4<sup>th</sup> December 2023

# •Reality (YEP Case Study)

ICorr London Branch - Thursday 14th March 2024

## •Heat Exchanger Failure



•Collaboration Meeting 4<sup>th</sup> December 2023

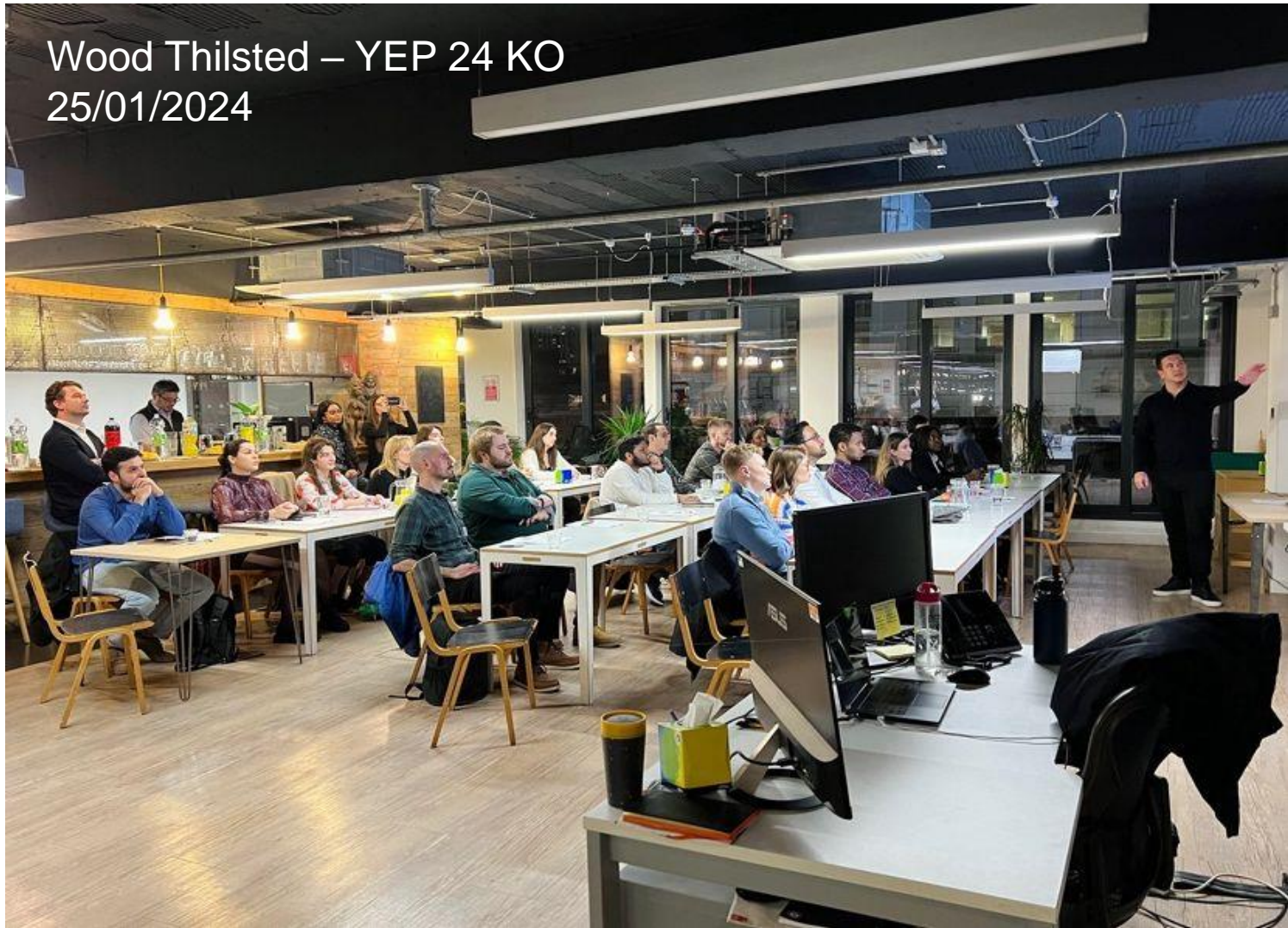


# •YICorr and YEP CORROSION TRAINING



# •YICorr and YEP CORROSION TRAINING

Wood Thilsted – YEP 24 KO  
25/01/2024







# Forward Event Opportunities and Sponsorships

### Electrochem

The 65<sup>th</sup> CSS will again be a joint meeting with **Electrochem 2024**, in Manchester Metropolitan University, between 11<sup>th</sup> and 13<sup>th</sup> Sept.

## Other 2024 Event Possibilities:

- 100<sup>th</sup> Anniversary of UR Evans publication – Corrosion of Metals (Shagufta is already working on this for a Corrosion Management feature).
- 200<sup>th</sup> Anniversary of Sir Humphrey Davy (inventor of CP).
- HM Government P&SC Meeting and July 1<sup>st</sup> Event Sponsorship - Repair Reuse. Science in Parliament [office@scienceinparliament.org.uk](mailto:office@scienceinparliament.org.uk)
  - ❑ The original repair reuse concept was proposed by Trevor Crichton, who is also a member of the Institute of Corrosion.

# •Continuity - President and Vice President

•**President - Stephen Tate** MBA, P.G  
Dip. Eng, MICorr

- Senior Corrosion Engineer at TOTAL
- Energies E&P UK (Technical Services - ABZ)
- Past 2x Chair, ICorr Aberdeen**
- Branch.**



•**Vice President – Dr Yunnan Gao**  
•PhD CEng, CSci, FICorr, FIMMM.  
•Pressure System & Integrity Engineer, BP,  
Sunbury-on-Thames  
•**Past 2x Chair, ICorr Aberdeen**  
•**Branch.**





# Thank You for Attending

