Corrosion Control in Transport and Infrastructure
CED Working Day
Nick Smart (Jacobs)
April 29, 2020
Contents of presentation

• Introduction to Institute of Corrosion (Icorr) Corrosion Engineering Division (CED)
• Background to today’s meeting
• Meeting programme
• Practical arrangements for day
Introduction to Corrosion Engineering Division

• ICorr has six branches and two divisions:
  • Corrosion Engineering Division (CED)
  • Corrosion Science Division (CSD)
• CED is a mechanism for members to meet and discuss corrosion engineering issues related to their field of activity, mainly in the UK.
• A forum to facilitate the exchange of information and experience, for example through an annual CED working day.
• A mechanism for members to jointly prepare documents that are of immediate and practical use to them in their field of activity, e.g.
  • Codes of practice, guidelines for processes and techniques, input to standards bodies, etc.
  • New CED documents are being prepared
  • Existing CED documents are being updated as part of working group activities.
  • Template available for new documents
Introduction to Corrosion Engineering Division

• A means of liaising and communicating with the working parties of international organisations (e.g. EFC, NACE) and standards bodies (e.g. ISO, BSI)
• Allows focused discussion of local UK issues
CED organisation and management

- CED Chair (council member): Nick Smart (Jacobs)
- CED Coordinator: Douglas Mills (Northampton University)
- CED document editor: Ruth Bingham
- Working groups (contact details on web site):
  - Coatings (chair Phillip Watkinson)
  - Nuclear (chair Nick Smart)
  - Oil and gas (chair Alistair Seton)
  - Cathodic protection (chair Pablo Merino)
  - Corrosion in concrete (chair Chris Atkins)
- Each working group operates autonomously and voluntarily
- Other WGs can be set up as required
CED documents

- The coatings Working Group has produced several guidance documents
- Available through members area of ICorr web site
- Legacy Oil and Gas CED documents are being reviewed and revised
- Nuclear working group has compiled a reading list for new entrants to the industry
CED Awards

• Lionel Shreir Young Corrosion Engineer Award
• Main CED Award: the Paul McIntyre award (since 2017)
  • Established international reputation in the field of corrosion engineering
  • Demonstrably advanced European collaboration and international standards development in the field of corrosion engineering
  • Living and working in the European corrosion community
  • Member of a corrosion-related body in the European area (e.g. NACE UK, The Institute of Materials, or the Institute of Corrosion, or another European corrosion society).
Background to today’s meeting

• Five invited talks (25 mins + 5 mins discussion) on theme of ‘Corrosion Control in Transport and Infrastructure’ covering all WG interests
• Paul McIntyre award announcement and talk
• Afternoon – working group meetings:
  • Coatings
  • Oil and Gas
  • Nuclear
  • Concrete
  • Cathodic Protection
# Programme for day

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30-9:45</td>
<td>Welcome and Introduction</td>
<td>Nick Smart Jacobs</td>
</tr>
<tr>
<td>9:45-10:15</td>
<td>Fascinating Uses of Heavy Duty Glassflake Coatings in Transport Applications</td>
<td>Phillip Watkinson Corrocoat</td>
</tr>
<tr>
<td>10:15-10:45</td>
<td>Innovations in Preserving Transport Infrastructure</td>
<td>Chris Atkins Mott MacDonald</td>
</tr>
<tr>
<td>10:45-11:15</td>
<td>Refreshments break</td>
<td></td>
</tr>
<tr>
<td>11:15-11:45</td>
<td>Managing Corrosion in Ageing Offshore Infrastructures</td>
<td>Steve Paterson Arbeadie Consultants</td>
</tr>
<tr>
<td>11:45-12:15</td>
<td>Corrosion Monitoring of Dry Fuel Storage Containers in Nuclear Facilities</td>
<td>Cliff Harris and Clive Harrison Jacobs</td>
</tr>
<tr>
<td>12:25-12:40</td>
<td>Paul McIntyre Award presentation and talk</td>
<td></td>
</tr>
<tr>
<td>12:40-13:30</td>
<td>Lunch break</td>
<td></td>
</tr>
<tr>
<td>13:30-14:00</td>
<td>A New CP Approach on Non-Isolated and Aged Pipelines: A Case Study</td>
<td>Pablo Merino CLH Pipeline Systems</td>
</tr>
<tr>
<td>14:00-16:10</td>
<td>CED Working Group Meetings</td>
<td></td>
</tr>
<tr>
<td>16:10</td>
<td>Closing remarks</td>
<td></td>
</tr>
</tbody>
</table>
Use of Zoom in meeting

- Please keep on mute and no video unless asked to speak
- Please raise questions using the ‘chat’ box
- Please state name, affiliation and summary of question in chat post
- I will select speaker, unmute yourself for question, then re-mute afterwards
- Recording sessions
- Gareth Hinds (ICorr president) is the ‘Zoom-master’ and will move you into breakout rooms for the WG meetings
Afternoon working group session

Breakout room 1: Coatings (14:00 to 15:00)
Breakout room 2: Oil and gas (15:10 to 16:10)
Breakout room 3: CP (14:30 to 15:30)
Breakout room 4: Concrete (14:00 to 15:00)
Breakout room 5: Nuclear (14:00 to 15:00)
Close meeting at 16:10
And finally

- Please get involved in the working groups between working days
- Thanks to:
  - all the speakers and chairs
  - Gareth Hinds for managing the Zoom connection
  - organisers at ICorr HQ
  - you for attending the first on-line CED day
- Presentations will be put in members area of ICorr web site
- Please send any feedback to: admin@icorr.org
- If not a member of ICorr, application forms available on-line
- Next year – meeting in York if possible
- Keep safe....