Microbial Corrosion Issues in Heating and Cooling Systems

26 April 2016

Nick Smart
Contents of presentation

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Safety

► No alarms expected
► Fire escapes
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 in the UK.
- A forum to facilitate the exchange of information and experience.
- 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.
  - Existing CED documents could be updated as part of working group activities.
  - Template available for new documents
- A means of liaising and communicating with the working parties of international organisations (e.g. EFC, NACE) and standards bodies (e.g. ISO, BSI)
- Collaboration, not competition
- Supported by EFC, NACE
- Allows focused discussion of local UK issues
CED organisation and management

- CED Chair (council member): Nick Smart (AMEC)
- CED Coordinator (I Corr technical secretary): Douglas Mills (Northampton University)
- Working groups (contact details on web site):
  - Coatings (chair David Horrocks)
  - Nuclear (chair Nick Smart)
  - Oil-field chemicals and corrosion (chair Alistair Seton)
  - Water treatment (chair Pam Simpson)
  - Cathodic protection (chair Ross Fielding)
  - Corrosion in concrete (chair Chris Atkins)
- Each working group operates autonomously
- Others can be set up as required
CED Awards

► Lionel Shreir Young Corrosion Engineer Award
► New CED Award: the Paul McIntyre award
  ► 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).
  ► Not a current member of the Council of the Institute of Corrosion
  ► Aged over 30.
► Details in Corrosion Management
Background to meeting

- ICorr Corrosion Engineering Division has held an annual working day since 2008
- The theme of this year’s meeting is Microbial Corrosion Issues in Heating and Cooling Systems
- Organised jointly with the International Biodeterioration and Biodegradation Society (IBBS)

Working groups today:
- Coatings - chair David Horrocks
- Nuclear - chair Nick Smart
- Oil-field chemicals and corrosion - chair Alistair Seton
- Water treatment - chair Pam Simpson
- Cathodic protection - chair Ross Fielding
  - merge with Corrosion in Concrete group today
  - Chris Atkins not attending: recent meeting of the group as part of the Corrosion Prevention Association
Introduction to IBBS – John Gillatt
Practical arrangements

► Refreshments
► Exhibition
► Toilets
► Working group meetings and exhibition
  ► Start at 15:00
► Please try and return on time for lectures (hand bell!)
► Speakers to stay for panel discussion at 16:30 – 16:45
► Museum open until 17:30
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter/Location</th>
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<tbody>
<tr>
<td>09.00-9.30</td>
<td>Registration and coffee</td>
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<tr>
<td>9.30-9.45</td>
<td>Welcome and Introduction</td>
<td>Nick Smart</td>
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<td>9.45-10.15</td>
<td>MICrobes – what’s lurking in your system?</td>
<td>Elise Maynard Water Management Society</td>
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<td>10.15-10.45</td>
<td>The role of SRB in MIC</td>
<td>Jill Cooper, Suez</td>
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<td>10.45-11.15</td>
<td>Refreshments and exhibition</td>
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<td>11.15-11.45</td>
<td>Pre-Commissioning Cleaning Process and What can go Wrong</td>
<td>Pam Simpson, WWTL Chris Parsloe Parsloe Consultants</td>
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<td>12.15-13.30</td>
<td>Lunch</td>
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<td>13.30-14.00</td>
<td>Non-Biocidal Antifouling Coatings</td>
<td>Robert Moorcroft University of Manchester</td>
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<td>14.00-14.30</td>
<td>Design, Installation and Protection of Closed Loop Systems</td>
<td>Les Bekesi, Lendlease</td>
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<td>14:30-15:00</td>
<td>Refreshments and exhibition</td>
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<tr>
<td>15.00-16.30</td>
<td>Working Group Meetings/ Equipment Demonstrations / Exhibition</td>
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<td>16.30-16.45</td>
<td>Closing discussion</td>
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And finally…. 

► Please get involved in the working groups between working days

► Thanks to:
  ► All the speakers and chairs
  ► Presentations will be put in members area of ICorr web site
  ► Organisers at ICorr
  ► Exhibitors
  ► Staff at The National Conference Centre
  ► You for coming!

► Please send feedback to: admin@icorr.org or post discussion to the LinkedIn Institute of Corrosion Group

► CPD certificates available on request

► If not a member of Icorr, forms are available or check on-line

► Have a safe journey ….