CCQTA Update

Randy Segato
Suncor Engineering Specialist,
Crude Quality and GHG,
President CCTQA

Houston
October 25, 2018
CCQTA Background

The Canadian Crude Quality Technical Association membership consists of companies from multiple segments of the Canadian oil industry. The Association is established with the following educational and scientific objectives:

– To facilitate communications among industry stakeholders
– To provide a forum for the presentation and consideration of proposals for industry projects related to any aspect of crude oil quality.
– To improve industry knowledge and awareness of crude oil quality through the cooperative exchange of technical information among industry sectors.

CCQTA currently has 76 (international) member companies from 6 different sectors of the industry (Producers, Refiners, Midstream, Pipeliners, Additive Suppliers, Government Agencies, Labs, Others).
CCQTA Active Projects

1. Amines in Crude
2. Condensate Quality Sub-Committee
3. Crude Oil Compatibility
4. Emulsion Characterization
5. H₂S PVT
6. Light Ends Characterization
7. Pipeline Corrosion / Transmission Pipeline Sour Service
8. Properties of Thermally Processed Material
9. Toluene Insoluble Organic Material

....plus more

...and our very successful OPEN Forum

All members have access to all projects, and historical completed projects (TAN, Bitumen Processibility, RVP, Heavy Oil Manual etc…)
CCQTA deliver real results!

Vapor Liquid Separation System

- Synthesize MOFs with narrow pores
  - Size exclusion of all components $\text{H}_2\text{S}$ and smaller molecular diameter.
CCQTA deliver real results!

Emulsion Interface Seen in UV Images

Number of samples: 462
Mean Interface value: 0.306
Median Interface value: 0.115

UV Fluorescence Imaging in Centrifuge Tests
# Directors of the CCQTA

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Sector Represented</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Randy Segato</strong></td>
<td><strong>Suncor Energy</strong></td>
<td><strong>President</strong></td>
</tr>
<tr>
<td>Scott Smith</td>
<td>Cenovus</td>
<td><strong>Vice President</strong></td>
</tr>
<tr>
<td>Gerald Bruce</td>
<td>GWB Consulting</td>
<td><strong>Treasurer</strong></td>
</tr>
<tr>
<td><strong>Dave Murray</strong></td>
<td><strong>Omnicon Consultants Inc.</strong></td>
<td><strong>Secretary &amp; Website Manager</strong></td>
</tr>
<tr>
<td>Andre Lemieux</td>
<td>Omnicon Consultants Inc.</td>
<td><strong>Technical Director</strong></td>
</tr>
<tr>
<td>Shaun Serediak</td>
<td>Enbridge Pipelines</td>
<td><strong>Director of Pipelines</strong></td>
</tr>
<tr>
<td><strong>Scott Blumenshine</strong></td>
<td><strong>Flint Hills Resources</strong></td>
<td><strong>Director of International Members</strong></td>
</tr>
<tr>
<td>Chris Ryan</td>
<td></td>
<td><strong>Director of Midstream</strong></td>
</tr>
<tr>
<td>Ron Parise</td>
<td>Nalco Canada</td>
<td><strong>Director of Additives</strong></td>
</tr>
<tr>
<td><strong>Derek Fraser</strong></td>
<td><strong>Maxxam Analytics</strong></td>
<td><strong>Director of Industry Services</strong></td>
</tr>
<tr>
<td>James Johnson</td>
<td>Marathon Petroleum</td>
<td><strong>Director of Refining</strong></td>
</tr>
<tr>
<td>Charles Ward</td>
<td>Alberta Department of Energy</td>
<td><strong>Director of Government Agencies</strong></td>
</tr>
<tr>
<td><strong>Dennis Sutton</strong></td>
<td><strong>COQA</strong></td>
<td><strong>Director - Crude Oil Quality Association</strong></td>
</tr>
<tr>
<td>Scott McNally</td>
<td>Crescent Point Energy</td>
<td><strong>Director of Production</strong></td>
</tr>
</tbody>
</table>
CCQTA Key Contacts and next meeting…

Edmonton  Dec 4-6 2018
dial-in possible 😊

President
Randy Segato
• 403.296.4561
• rsegato@suncor.com

Secretary
Dave Murray
• 780.218.3759
• secretary@ccqta.com

…End