



CCQTA Introduction

CCQTA-COQA Joint Meeting

May 22-24, 2018

Denver, CO



What is the CCQTA?

The Canadian Crude Quality Technical Association membership consists of companies from multiple segments of the Canadian oil industry. The Association was established in 1997 with the following educational and scientific objectives:

- To facilitate the resolution of common crude oil quality issues by establishing direct lines of communications among crude oil 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.

The CCQTA does not discuss issues of a commercial nature nor does it endorse specific suppliers. The Association focus is on the technical aspects of the industry alone.

The strength of the CCQTA lies in its ability to pool resources from multiple sectors of the oil industry in response to an issue or concern. Pooled resources allow more productive research than work in isolation.





Membership

- Currently 76 Members Representing the following industry sectors:
 - Producers
 - Refining
 - Pipeline
 - Midstream
 - Additive Suppliers
 - Government Agencies
 - Other
 - Technical Consultants
 - Laboratories
 - Service companies
 - Instrument Manufacturers



CCQTA Operation

- Board -14 members
 - 5 Executive – 9 Directors representing various industry sectors
- Annual Budget
 - Revenue ~ \$ 325K - membership dues
 - Expenses ~ \$ 100K - operations
 - ~ \$ 225K - funded projects





CCQTA Board of Directors

Name	Company	Sector Represented
Randy Segato	Suncor Energy	President
Scott Smith	Cenovus	Vice President
Gerald Bruce	GWB Consulting	Treasurer
Dave Murray	Omnicon Consultants Inc.	Secretary
Andre Lemieux	Omnicon Consultants Inc.	Technical Director
VACANT		Director of Pipelines
Scott Blumenshine	Flint Hills Resources	Director of International Members
Chris Ryan	Tundra Energy Marketing Ltd (TEML)	Director of Midstream
Ron Parise	Nalco Canada	Director of Additives
Derek Fraser	Maxxam Analytics	Director of Industry Services
James Johnson	Marathon Petroleum	Director of Refining
Charles Ward	Alberta Department of Energy	Director of Government Agencies
Dennis Sutton	COQA	Director - Crude Oil Quality Association
Scott McNally	Crescent Point Energy	Director of Production

Canadian Crude Quality Technical Association

- www.ccqta.com/index.php






CCQTA The Canadian Crude Quality Technical Association

[forgot password?](#)

****Vapor Pressure Measurement Best Practice Published**** ****CCQTA-CO

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- To improve industry knowledge and awareness of crude oil quality through the cooperative exchange of technical information among industry sectors. The CCQTA is careful to stay clear of commercial issues, concentrating instead upon the technical aspects.

[Download the Summary of CCQTA Achievements](#)

[Vapor Pressure Best Practice](#)

[Download the Alberta Department of Energy Bitumen Assay report](#)

Calendar of Events

[View Events Calendar](#)

Join the CCQTA

[Download Application Form](#)

Membership Fees

[Pay Membership Fees Online](#)

Event Registration

[Register for Event](#)

Current Projects

- » [Open Forum](#)
- » [TAN Phase IV](#)
- » [TVP-RVP Relationship](#)
- » [Phosphorus in Crude Oil](#)
- » [Pipeline Corrosion](#)
- » [Condensate Quality Sub-Committee](#)
- » [Crude Oil Compatibility](#)
- » [Current Project Listing](#)

CCQTA PROJECTS

Participant Funded

1. Condensate Quality (closed)
2. Organic Chlorides (suspended)
3. Phosphorus (suspended)
4. TAN (closed)
5. Emulsion Characterization (active)

Sub-Committees

1. Condensate Quality
2. Education (pending)

CCQTA Sponsored

1. Water in Crude
2. Amines in Crude
3. TVP/RVP
4. H₂S PVT
5. Crude Oil Flammability
6. Crude Compatibility Method
7. VLE Method Development
8. TIOM
9. Properties of Thermally Processed Material
10. Organic Chlorides in Distillate (not active)
11. Pipeline Corrosion
12. Pipeline Sour Service



OPEN FORUM

Open Forum

1. First meeting held in December 2016.
2. Meetings well attended and held quarterly
3. Opportunity for members to discuss quality issues/propose projects.
 - Previously held at AGM/GM meetings
4. Recurring items or items with multiple member support presented to the Board for approval/funding.
5. Two recent projects originate from open forum meetings



AMINE IN CRUDE



Amine in Crude

- Project established in December 2017.
- Objective is to develop a “Best Practice” designed to educate industry on additive use, selection and the upstream and downstream impacts of additive use.
- Document to be published on public side of the CCQTA website.





Amine in Crude

Best Practice Key Sections

1. Problem definition & resulting impact
2. Source and entry point flowchart/schematics
3. Test method discussion/recommendations
4. Guidelines for scavenger selection/qualification
5. Guidelines of effective scavenger use and application



Amine in Crude - Best Practice

Member requested items to be included



1. Potential damage to EOR & injection/disposal well plugging.
2. Scavenger impact on WWTP “bug plant”.
3. Impact of other amines on plant issues.
4. Why is scavenger used – EHS, transportation/public safety
5. Scavenger use/misuse
6. Highlight plant corrosion & product quality concerns





Amine in Crude – Project Activities

- Collecting plant data from refiners
 - MEA testing in tower overheads & desalter brine
 - Corrosion failure data
- Enlisting input from Additive Suppliers on additive selection and use.
- Collecting information on available test methods
 - Lab methods
 - Field methods
 - H₂S vapor phase testing (CCQTA equipment)





WATER CONTENT TEST METHODS



Water Content Test Methods

- Project established in December 2017.
- Objective is to prepare a White Paper outlining the capabilities of existing test methods and factors to consider during method selection – fit for purpose.
- Document to be published on public side off the CCQTA website.





Water Content –

White Paper Key Sections

1. Important variables to consider during a “fit for purpose” determination
2. Provide guidelines on test method capabilities and reliabilities based on published repeatability/reproducibility.
 - Provide advice on data significance
 - Develop sample/example cases
3. Collect data on the effects of sub sampling variability
 - Centrifuge method(s)
 - Karl Fisher method(s)
4. Explore options for referee method(s)





Water Content - Project Activities

- Gathering available method comparison test data from members.
- Reviewing previous publications/work on the S&W measurement issue.



CCQTA Contact Information



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