



CCQTA Update for COQA meeting

Thursday June 5, 2014



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 Projects

- CCQTA currently has 83 member companies from 6 different sectors of the industry.
- 54 companies participating in 11 member funded projects
- 1 other project funded by the CCQTA
 - Crude Quality Tutorial





CCQTA Member Funded Projects



- Tan Phase IV
- Oilsands Bitumen Processability – Phase III
- Heavy Oil Compatibility – Phase II
- Phosphorus
- Condensate Quality – Phase II
- H₂S PVT – Phase II
- Emulsion Characterization
- Organic Chlorides
- Bitumen Dewatering and Volume Discrepancy
- TVP/RVP
- Pipeline Corrosion



CCQTA Activities

What's new

- Two test methods submitted to ASTM for approval:
 1. Determination of Vapor Pressure of Crude Oil: $VPCR_x - F(T_m^\circ C)$ (Manual Expansion Field Method).
 2. Determination of Light Hydrocarbons and Hydrocarbon Boiling Point Distribution and Cut Point Intervals in Live Crude Oils and Condensates via Gas Chromatography.
- Working on the development of a field method for measuring H_2S in vapor at various V/L ratios.





CCQTA Activities

What's new

- The Association is considering changing its structure and operation.
 - Moving from a Working Board (volunteer) to a Governance Board (some hired staff).
 - Increasing annual fees to:
 - Pay staff (e.g. Executive/Technical Director)
 - Fund more CCQTA sponsored projects
 - Support the Association's teaching/education function





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New Project Proposals

- Olefins in Crude
 1. Gain a better understanding of refinery fouling, product contamination and operational issues associated with olefin content of crude.
 2. Develop an analytical method for measuring olefin and di-olefin content of crude oil.
- Hg in Crude
 1. Determine the quantity, source, and impact of Hg in Canadian crude.
 2. Assess the effectiveness of sampling and testing methods, and the suitability of existing specifications.



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New Project Proposals

- Dilbit and Conventional Crudes Flammability Study
 1. Determine whether dilbits are more/less/equally flammable as other North American crudes.
 2. Project work will focus on proper sample collection (piston/pressurized cylinders) and proper sample analysis (use of HPLIS).
 3. Review existing test methods for flash, fire point, flammability and if required, upgrade testing to meet rail car design, specifications for crude oil transport.



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Next Project Meetings

Tuesday June 17th

8:30 am - 10:30 am

Tan Phase 4

10:30am – 12:30pm

Oilsands Bitumen Processability

1:30 pm - 4:30 pm

Organic Chlorides

Wednesday June 18th

8:30 am - 10:30 am

H₂S PVT

10:30 am - 12:30 pm

TVP/RVP

1:30 pm - 3:00 pm

Pipeline Corrosion

3:00 pm – 5:00 pm

New Projects

Thursday June 19th

8:30 am - 11:30 am

Bitumen Dewatering & Shrinkage

11:30 am - 1:30 pm

Executive Meeting

1:30 pm - 4:30 pm

AGM

CCQTA Contact Information

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