



TCI Carbon Capture and Storage

AMPP Annual Conference 2024, New Orleans, Tennessee
Monday, March 4, 13:00AM to 15:00PM (CST)
Ernest N. Morial Convention Center - Room 222

Chair: Hans Sonke

This forum of invited presentations and discussions on Carbon Capture and Storage - Information Exchange is being conducted starting this year with its first face to face meeting. The Forum will consist of 3 to 6 invited presentations, each 20 minutes in length including Q&A, with a group discussion at the end of the Forum. It is expected that speakers will include researchers from academia, private industry and commercial firms.

The aim of this Information Exchange is to provide the ability to review state-of-the-art information relevant to those who work with carbon capture and storage in relation to materials selection and corrosion control. The focus of this Information Exchange can be related to research and project development that addresses materials challenges and corrosion related to specific CCS process conditions including CO₂ processing, transport and injection, including effect of impurities.

1.0 13:00 – 13:05 Call to order. Introductory remarks, introduction of attendees, goals of the Information Exchange

2.0 13:05 – 14:45 Presentations. Technical Information exchange – Each presentation can be 20-25 minutes long followed by 5-10 minutes of questions.

**13:05 – 13:20 Introduction: SC 26 Carbon Capture and storage, Alternative fuels, Energy storage
Project development Materials Challenges – Update**

❖ Hans Sonke, Shell International B.V., Global SME (Subject Matter Expert): Corrosion Prediction & Control / CCUS Materials,

13:20 – 13:45 Corrosion due to impurity interactions in Industrial CO₂ streams – Special attention to Corrosion Rate

❖ Bjorn Morland, IFE, Kjeller Norway

Abstract: impurities can cause chemical interaction and liquid drop out that can cause corrosion, mechanism, what can we measure and what data is available to us now. Can we measure / predict corrosion

13:45 – 14:10 Material selection for CO₂ storage, test methodology and recommendation
Cecile Millet <cecile.millet@vallourec.com>

❖ Cecile Millet, Vallourec

Abstract: Material selection for CO₂ storage discussing test methodology and some input on material recommendation.

14:10 – 14:35 Barriers to control acid formation and drop-out in CO₂ transport

❖ Marc Wilms, Shell

Abstract: To control acid formation and drop-out for CO₂ transport control of critical upper limits in the CO₂ specification is the focus and first barrier for projects, however is this one barrier (that includes a lot of uncertainties) sufficient and are there secondary barriers possible.

3.0 14:35 – 14:50 Open Discussion some ad-hoc presentations

Q&A for previous speakers and these or other relevant topics.

Review of old business and open discussion and consideration of future program and format.

4.0 14:50 Suggestions next meetings topics + speakers

5.0 14:45 Next meeting:

6.0 15:00 Adjourn

We hope you will be able to join us at the conference in New Orleans!

Regards,

Hans Sonke (Chair)
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