

# IEAGHG Risk Management Network & Monitoring Network Combined Meeting

27-28<sup>th</sup> August 2025

Agora, The Shell Centre, The Hague, The Netherlands

	<b>DAY 1: WEDNESDAY – 27<sup>TH</sup> AUGUST 2025</b>
8:00-8:30	REGISTRATION (please allow 30 minutes for security – PASSPORT NEEDED)
8:30- 9:00	WELCOME & HOUSEKEEPING <i>Marcella Dean-Elsener &amp; Tim Dixon</i>
9:00- 10:30	<b>SESSION 1: SAFEGUARDING FUTURE STORAGE NEEDS – RISKS &amp; OPPORTUNITIES</b> <i>CHAIR: Owain Tucker</i>
9:00-9:20	<b>Risks to damaging future stores – well abandonment practice</b> <i>Gwilym Lynn, Shell</i>
9:20-9:40	<b>Classification of reservoirs, e.g. as USDWs and implications for use</b> <i>Katherine Romanak, GCCC, BEG</i>
9:40-10:00	<b>Competing surface infrastructure</b> <i>Adrian Topham, The Crown Estate</i>
10:00-10:30	<b>Discussion</b>
<b>10:30 -11:00 COFFEE</b>	
11:00-12:45	<b>SESSION 2: FAULTS – HOW RISKY ARE THEY?</b> <i>CHAIR: TBC</i>
11:00-11:20	<b>DETECT fault leakage risk assessment methodology and applications</b> <i>Jeroen Snippe, Shell</i>
11:20-11:40	<b>Investigating fault risk and associated monitoring technologies at In-Situ Lab</b> <i>Ludovic Ricard, CSIRO</i>
11:40-12:00	<b>Water and CO<sub>2</sub> injection into fault experiment</b> <i>Ziqiu Xue, RITE &amp; Charles Jenkins, CSIRO</i>
12:00-12:30	<b>Discussion</b>
<b>12:30-13:30 LUNCH</b>	
13:30-15:45	<b>SESSION 3: LEGACY WELL RISK – THRESHOLDS OF DETECTION- WHAT IS MATERIAL?</b> <i>CHAIR: Marcia Coueslan</i>
13:30-13:50	<b>Risk tolerance criteria and well leakage</b> <i>Aaron Cahill, Heriot-Watt University</i>
13:50-14:10	<b>Materiality of leakage and impact of USDW remediation requirements</b> <i>Marcia Coueslan, Vault 44.01</i>
14:10-14:30	<b>Quantifying leakage magnitude in legacy wells considering cement channels</b>

14:30-14:50	<i>Al Moghadam, TNO</i> <b>Cross-Flow in Legacy Wells: Between Data and Uncertainty</b> <i>Anna Peksa, Shell</i>
14:50-15:10	<b>Near-surface monitoring – a controlled release simulating a failed well</b> <i>Susan Hovorka (GCCC) &amp; Sahar Bakhshian (Rice)</i>
15:10-15:30	<b>Discussion</b>

**15:30-15:45 COFFEE**

15:45-16:05	<b>SESSION 4: WELL DESIGNS AND OPERATIONS</b> <i>CHAIR: Shell TBC</i>
15:45-16:05	<b>Decatur Storage Site – an update</b> <i>Randy Locke, Illinois Geological Survey</i>
16:05-16:25	<b>Historic experience in managing well corrosion in the US</b> <i>Sue Hovorka, GCCC</i>
16:25-16:45	<b>Norwegian offshore CO<sub>2</sub> well design</b> <i>Philip Ringrose, NTNU</i>
16:45-17:05	<b>CO<sub>2</sub> cement integrity sleeve performance, deployment methods and its capability to preserve self-sealing properties of standard class G cements</b> <i>Walter Stam, Shell</i>
17:05-17:30	<b>Discussion</b>

Close Day 1

**18:00-18:30 for MUSEUM TOUR AND DINNER RECEPTION at MAURITSHUIS**



## DAY 2: THURSDAY 28<sup>TH</sup> AUGUST 2025

8:00-8:30 Security – please allow at least 30 minutes for security PASSPORT NEEDED

### 8:30- 11:15 SESSION 5: NOVEL MONITORING SOLUTIONS

*CHAIR: Marcella Dean-Elsener*

8:30-8:50 **Adapting multiparameter measurements with distributed optical fibre sensor for CO<sub>2</sub> storage monitoring: A case study in North Dakota**

*Ziqiu Xue, RITE*

8:50-9:10 **Offset VSP Gorgon**

*Roman Pevzner, Curtin*

9:10-9:30 **Seabed fiber optic cables for CO<sub>2</sub> storage monitoring : status and next steps**

*Estelle Rebel, TotalEnergies*

9:30-9:50 **Shear wave resonance effects and potential use for CO<sub>2</sub> monitoring purposes**

*Martin Landro, NTNU*

9:50-10:10 **Gravity field monitoring, Viking and Morcambe CCS**

*Martha Lien, NORCE*

10:10-10:30 ***Advances in sparse, cost-effective monitoring***

*Don Lawton CAMI*

10:30-11:00 **Discussion**

### 11:00-11:30 COFFEE

### 11:30-13:15 SESSION 6: RISK PROFILE THROUGH TIME – POSITIVE RISK REDUCTION FACTORS

*CHAIR: Tim Dixon*

11:30-11:50 **MMV evolution at Quest**

*Marcella Dean-Elsener, Shell*

11:50-12:10 **Sequential multi-physics trapping models (Markov chains)**

*Philip Ringrose, NTNU – Centre for Geophysical Forecasting*

12:10-12:30 **Impact of shale creep on CO<sub>2</sub> containment**

*Pierre Cerasi, SINTEF*

12:30-13:50 **Porthos – a discussion on risk**

*Willem-Jan Plug, Porthos*

12:50-13:15 **Discussion Panel**

### 13:15-14:00 LUNCH

### 14:00-15:45 SESSION 7: PRESSURE PLUME RISK

*CHAIR: Philip Ringrose*

14:00-14:20 **Induced seismicity risk from multiple stores**

*Stephen Bourne, Shell*

14.20-14:40 **Cooperative strategies for maximizing storage capacity of gigatonne-scale regional resources**

*Sarah Gasda, NORCE*

- 14:40-14:50 **Light-touch Pressure Monitoring: Keeping an Eye on a Multi-Actor System without Breaking the Bank**  
*Alex Bump, GCCC, BEG*
- 14:50-15:00 **Fibre optic strain sensing from Japan and Otway**  
*Ziqiu Xue, RITE*
- 15:00-15:20 **Natural seismicity in the North Sea: the benefits and limits of unified seismological data**  
*Tom Kettlety, University of Oxford*
- 15:20-15:45 **Discussion**

**15:45-16:00 COFFEE**

- 16:00-17:30 SESSION 8: DISCUSSION PANEL – ROLE OF INSURANCE & FINANCE**  
*CHAIR: Franz Hiebert*  
*Hiroyasu Konno, Nishimura & Asahi– Japanese CCS Business Act*  
*Jan-Erik Berre DNB*  
*Ian Catterall, Howden*  
*Others TBC*
- 17:30-18:00 CLOSING DISCUSSION**  
*Sue Hovorka, Charles Jenkins, Tim Dixon*

---

Close Day 2