

## Draft outline for DSS on CCUS, July 2022

### Monday 4 July 2022

8:30 – 8:40	Opening Session	Head of Department
8:45 – 9:30	Why CCS?	Owain Tucker
9:30-10:30	Five pillars of CCS	Owain Tucker
10:30 – 10:45	Coffee Break	All
10:45 – 11:30	Storage exploration	Owain Tucker
11:30-12:30	CO <sub>2</sub> source and CO <sub>2</sub> production	Raul Valdez
12:30 – 13:30	Lunch	All
13:30 – 14:30	CO <sub>2</sub> transportation, distribution, and injection	Raul Valdez
14:30 – 14:45	Coffee break	All
14:45 – 15:30	CO <sub>2</sub> transport and storage business models	Owain Tucker
15:30 – 16:15	Production gathering and separation	Raul Valdez
16:15-16:30	Coffee break	All
16:15 – 17:30	Legacy wells	Owain Tucker

### Tuesday 5 July 2022

8:30 – 9:00	Gas gathering and transportation	Raul Valdez
9:00-10:30	CO <sub>2</sub> phase behavior and phase management	Owain Tucker
10:30 – 10:45	Coffee Break	All
10:45 – 12:15	CO <sub>2</sub> trapping mechanisms	Bill Rossen
12:15 – 13:30	Group photo and Lunch	All
13:30 – 15:00	CO <sub>2</sub> storage in aquifers	Owain Tucker
15:00 – 15:15	Coffee break	All
15:15– 16:15	Chemistry of water/rock interactions	Eric Oelkers
16:15 – 16:30	Coffee break	All
16:30 – 17:30	Inset and ex-situ mineral carbon efforts - 1	Eric Oelkers
19:00 – 22:30	Course dinner	All + Guests

### Wednesday 6 July 2022

8:30 – 10:30	Inset and ex-situ mineral carbon efforts - 2	Eric Oelkers
10:30-10:45	Coffee Break	All
10:45 – 11:30	Review of technology of CO <sub>2</sub> EOR	Larry Lake
11:30 – 12:30	CO <sub>2</sub> EOR to CCUS	Larry Lake
12:30 – 13:15	Lunch	All
13:30 – 14:30	Lab Visit	Interested people

**Thursday 7 July 2022**

<b>8:30 – 9:30</b>	Simple methods to predict recovery factor from CO <sub>2</sub> EOR	Larry Lake
<b>9:30 – 10:30</b>	Reservoir monitoring and surveillance	Raul Valdez
<b>10:30 – 10:45</b>	Coffee Break	All
<b>10:45 – 12:30</b>	Foam assisted CO <sub>2</sub> sequestration: opportunities and challenges	Bill Rossen
<b>12:30 – 13:30</b>	Lunch	All
<b>13:30 – 15:00</b>	Risk-based monitoring Surveillance for CCS	Marcella Dean, Shell
<b>15:00 – 15:15</b>	Coffee Break	All
<b>15:15 – 16:00</b>	Dispersion and mixing	Larry Lake
<b>16:00 – 17:30</b>	Baseline technology of CCS simulation	Denis Voskov

**Friday 8 July 2018**

<b>8:30 – 10:00</b>	Modern approaches and challenges in modelling of CCS	Denis Voskov
<b>10:00 – 10:15</b>	Coffee Break	All
<b>10:15 – 11:15</b>	How new modelling technology can improve CCS?	Denis Voskov
<b>11:15 – 11:30</b>	Coffee break	All
<b>11:30 – 12:30</b>	CCS in depleted gas fields	Thijs / EBN
<b>12:30 – 13:30</b>	Lunch	All
<b>13:30 – 14:30</b>	Flow assurance	Wouter / EBN
<b>14:30 – 15:30</b>	Injectivity, cold CO <sub>2</sub> propagation	Thijs / EBN
<b>15:30 – 15:45</b>	Coffee break	All
<b>15:30 – 17:15</b>	Open Discussion	All
<b>17:15 – 17:30</b>	Closing	