Mission Innovation Carbon Capture, Utilization and Storage Experts’ Workshop  
Hilton Hotel North, Houston Texas  
September 25-29, 2017

Monday, September 25, 2017

6:00 PM – 7:00 PM  Social Hour (Invitation Only)  
Co-Hosts, Co-Chairs, Panel Leads  
Location: Donatello

7:00 PM – 8:00 PM  Dinner (Invitation Only)  
Welcome, Introductions, Workshop Plan/Logistics  
Co-Hosts, Co-Chairs, Panel Leads  
Location: Donatello

Tuesday, September 26, 2017

7:00 - 8:00 AM  Workshop Registration/Breakfast  
Location: Raphael AB Foyer

Opening Plenary Session – Raphael AB

8:00 – 8:30 AM  Welcome - Workshop Co-Sponsors  
Dr. Randy Gentry, Deputy Director  
National Energy Technology Laboratory, U. S. Department of Energy  
Khalid Abuleif, Sr. Advisor, Chief Negotiator for Climate Agreements, Ministry of Energy, Industry and Mineral Resources, Saudi Arabia

8:30 – 8:45 AM  Mission Innovation Overview  

8:45 – 9:15 AM  Chair Welcome, Workshop Charge/Structure and Co-Chair Introductions  
Michelle Buchanan

9:15 – 10:15 AM  Topic Overview and Panel Introductions – Workshop Co-Chairs (15 min. each)  
Jørild Svalestuen – Capture  
Alissa Park – Utilization  
Don DePaolo – Storage  
Joe Powell – Crosscut

10:15 – 10:20 AM  Closing Remarks and Panel Instructions  
Michelle Buchanan

10:20 – 10:30 AM  Refreshment Break
10:30 – 12:00 PM  Theme/Focus Area parallel sessions: align, discuss interfaces, and other issues relevant to the panels  
Capture – Location: Donatello  
Utilization – Location: Raphael C  
Storage – Location: Raphael D  
Crosscut – Location: Galileo I & II

12:00 PM – 1:30 PM  Working Lunch  
Location: Raphael AB Foyer

1:30 – 5:00 PM  Organize into parallel panel sessions  
Locations: See last page of Agenda

3:00 - 4:00 PM  Refreshments available  
Panels continue working; break at your leisure  
Location: Outside of Panel Locations

4:30 – 5:00 PM  Technical Committee Meeting (Invitation Only)  
Review Workshop proceedings, change to Panels, Logistics, and other issues  
Location: Board Room

5:30 – 7:00 PM  Opening Reception  
Location - Alfresco

7:00 – 9:00 PM  Parallel Panel Discussions continue – OPTIONAL  
Locations: See last page of Agenda

**Wednesday, September 27, 2017**

7:00 - 8:00 AM  Breakfast  
Location: Raphael AB Foyer

8:00 – 9:30 AM  Parallel Plenary Sessions for Focus Areas  
(Chair, Co-chairs, Panel Leads, and Panel Participants review PRDs)  
Capture – Location: Donatello  
Utilization – Location: Raphael C  
Storage – Location: Raphael D  
Crosscut – Location: Galileo I & II

9:30 – 10:00 AM  Break

10:00 – 10:40 AM  Mission Innovation Updates (20 minutes each)  
Business/Investor Engagement Group  
MI Challenge Group  
Jordan Kislear and Tidjani Niass  
Location: Raphael AB
10:40 – 12:00 PM  
Plenary Session  
Co-Chairs Report Out (progress, issues, etc.) – 20 min. each with 5 min. intro  
Jørild Svailestuen - Capture  
Alissa Park – Utilization  
Don DePaolo – Storage  
Joe Powell – Crosscut  
Location: Raphael AB

12:00 - 5:00 PM  
Panels/PRD Discussions (continue)  
Locations: See last page of Agenda

12:00 – 1:30 PM  
Working Lunch  
Location: Outside of Panel Locations

3:00 – 4:00 PM  
Refreshments available  
(Panels continue working; break at your leisure)  
Location: Outside Panel Locations

4:30 – 5:00 PM  
Technical Committee Meeting (Invitation Only)  
Review Workshop proceedings, change to Panels, Logistics, and other issues  
Location: Board Room

5:00 – 6:00 PM  
Break

6:00 – 8:00 PM  
Workshop Dinner  
Location: Raphael AB

Thursday, September 28, 2017

7:00 – 8:00 AM  
Breakfast  
Location: Raphael AB Foyer

8:00 – 10:00 AM  
Panel Discussions/PRDs refined (continued)  
Locations: See last page of Agenda

8:00 – 9:30 AM  
MI Steering Committee Meeting/Call (Invitation Only)  
Discuss next steps for report, CCUS Challenge Next Steps, focus and direction, and other Committee Business

10:00 – 10:30 AM  
Break

10:30 – 11:30 AM  
Panel Discussions/PRDs refined (continued)

11:30 – 12:30 PM  
Lunch  
Location: Raphael AB
12:30 – 2:30 PM
Plenary Session
Report out from Co-Chairs on Theme/Focus Areas (30 min. each)
Jørild Svalestuen – Capture
Alissa Park - Utilization
Don DePaolo - Storage
Joe Powell - Crosscut
Location: Raphael AB

2:30 – 2:45 PM
Summary of Workshop and Next Steps
Michelle Buchanan

2:45 – 3:15 PM
Closing Remarks – US and Saudi Arabia Workshop Chairs

3:15 PM
Workshop Adjourned

3:30 – 5:30 PM
Crosscutting Panel Group Meeting
Location: Raphael D

3:30 – 5:30 PM
Co-Chairs, Panel Leads and Lead Authors begin writing session
Location: Raphael C

5:30 PM
Dinner – On your own

**Friday, September 29, 2017**

**Attendance by Invitation Only**

7:30 – 8:30 AM
Breakfast
Location: Raphael C

8:30 – 12:30 PM
Writing sessions (Invitation Only)
Location: Raphael C

12:30 PM
Lunch available/continue writing

3:00 P.M.
Adjourn
Parallel Panel Sessions

**Theme/Focus Area 1: CO₂ Capture (C)** Jørild Svalstuen (NOR), Co-Chair
**Panel C1:** Solvents – Raphael C
Panel Leads: Gary Rochelle (USA) and Mohammed Abu Zhara (UAE)

**Panel C2:** Sorbents and Looping Systems – Raphael D
Panel Leads: Mohamed Eddaoudi (SAU) and Jochen Ströhle (DEU)

**Panel C3:** Membranes - Campobello
Panel Leads: Earl Goetheer (NLD) and Rune Bredesen (NOR)

**Panel C4:** Combustion and Other Technologies – Galileo II
Panel Leads: Jon Gibbins (UK) and Robin Hughes (CAN)

**Theme/Focus Area 2: CO₂ Utilization (U)** Alissa Park (USA), Co-Chair
**Panel U1:** Thermochemical Conversion and Hydrogenation of CO₂ – Room 1
Panel Leads: Peter Styring (UK), Xinbin Ma (CHN), Rebecca Boudreaux (USA)

**Panel U2:** Electrochemical and Photochemical Conversion of CO₂ - Room 2
Panel Leads: Tom Jaramillo (USA) and Marc Robert (FRA)

**Panel U3:** CO₂ Conversion to Solid Carbonates – Room 3
Panel Leads: Eric Kennedy (AU) and Giulia Costa (ITA)

**Panel U4:** Biological Conversion of CO₂ – Donatello
Panel Leads: Marc Strous (CAN) and Greg Stephanopoulus (USA)

**Theme/Focus Area 3: CO₂ storage (S)** Don DePaolo (USA), Co-Chair
**Panel S1:** Injectivity and Capacity – Room 5
Panel Leads: Philip Ringrose (NOR) and Curt Oldenburg (USA)

**Panel S2:** Monitoring, Verification and Performance Metrics – Room 11
Panel Leads: Ziqiui Xue (JPN) and Jonathan Pearce (UK)

**Panel S3:** Forecasting and Managing Induced Seismicity – Room 12
Panel Leads: Hideo Aochi (FRA) and David Eaton (CAN)

**Panel S4:** Well Diagnostics – Room 10
Panel Leads: Franz May (GER) and Rick Chalaturnyk (CAN)

**Crosscut (CC) Joe Powell (USA), Co-Chair – Galileo I**
Panel Leads: Jay Lee (KOR) and Andrea Ramirez (NLD)