

BIGCCS contributions at the GHGT-13 Conference

Task 1.1

- Solid-liquid solubility in AMP-KSAR-CO₂-H₂O System, Ugochukwu Edwin Aronu, Xiaoguang Ma (**ORAL**)
- Study of degradation and heat of dissolution of solids in aqueous blend of AMP and KSAR loaded with CO₂, Solrun Johanne Vevelstad, Inna Kim, Andreas Grimstvedt, Ugochukwu Edwin Aronu (**POSTER**)

Task 1.2

- Hybrid Membranes for CO₂ separation, Gabriel Heredia, NTNU (**POSTER**)

Task 1.4

- Capturing CO₂ from biogas fuelled power generation, Hailong Li, Yuting Tan, Mario Ditaranto, Jinying Yan (**ORAL**)

Task 1.5

- Evaluation of a natural gas-fired CLC boiler for industrial steam generation, Vidar Skjærvold, Rebecca Gullberg, Kristin Jordal, Øyvind Langørgen, Carl Schander, Adriana Reyes Lua (**ORAL**)

Task 1.6

- A comparison of post-combustion capture technologies for the NGCC, Avinash Shankar, Rammohan Subramanian, Kristin Jordal, Rahul Anantharaman (**ORAL**)

Task 1.7

- Performance of a 150 kW Chemical Looping Combustion reactor system for gaseous fuels using natural minerals, Øyvind Langørgen, Inge Saanum, Vincent Thoréton, Nils Erland L. Haugen (**ORAL**)

Task 2.1

- Fracture-propagation control in pipelines transporting CO₂-rich mixtures, E. Aursand, S. Dumoulin, M. Formeau, G. Gruben, M. Hammer, S.T. Munkejord, H.O. Nordhagen (**POSTER**)

Task 3.3

- Imaging constraints using applications of optimal AVO to CO₂ storage monitoring, A. Ghaderi, B. Dupuy (**POSTER**)
- Uncertainty quantification in waveform-based imaging methods - a Sleipner CO₂ monitoring study, P. Eliasson, M. Amaya, A. Romdhane, M. Jordan (**POSTER**)

Task 3.4

- Investigation of shale creep as a healing mechanism of cement to caprock microannulus, Pierre Cerasi, Elisabeth Lund, Marta Laukeland Kleiven, Anna Stroisz and Erling Fjær (**ORAL**)
- Innovation achieved in geomechanics research in the BIGCCS centre, Pierre Cerasi, Alexandre Lavrov, Anna Stroisz, Jørn Stenebråten, Idar Akervoll, Raheleh Farokhpour and Amir Taheri (**ORAL**)

Task 3.5

- Avoiding damage of CO₂ injection wells caused by temperature variations, Malin Torsæter, Jelena Todorovic, Alexandre Lavrov, Kamila Gawel, Halvor Lund, Pratanu Roy, Susan Carroll. (**ORAL**)

- Porosity changes in mud-affected rock and cement upon reaction with CO₂, Ragnhild Skorpa, Jelena Todorovic, Malin Torsæter (**POSTER**)
- Synchrotron study of cement hydration near a wall: implications for well integrity at CO₂ storage sites, Elvia Anabela Chavez Panduro, Alexandre Lavrov, Malin Torsæter, Dag W. Breiby (**POSTER**)
- Closing of micro cavities in well cement upon CO₂-brine exposure, Elvia Anabela Chavez Panduro, Malin Torsæter, Kamila Gawel, Ruben Bjørge, Claus Kjøller, Peter Frykman and Dag W. Breiby (**POSTER**)
- Assessment of thermal stress on well integrity as a function of size and failure strength, Pratnu Roy, Stuart D. C. Walsh, Joseph P. Morris, Jaisree Iyer, Yue Hao, Susan Carroll, Jelena Todorovic, Kamila Gawel, Malin Torsæter (**POSTER**)

Task 3.6

- Pressure control for managing and optimizing adjacent subsurface operations in large scale CCS, Carsten M. Nielsen, Alv-Arne Grimstad, Robert Drysdale (**POSTER**)

Task 4.1

- The benefits of an integrated multi-criteria analysis of CCS chains, Jana Jakobsen, Simon Roussanaly, Rahul Anantharaman, and Geir Skaugen (**ORAL**)