

Newsletter from the SUCCESS centre – September 2014 – no. 15

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The CCS event this fall:

SUCCESS + CLIMIT Seminars

This year the annual SUCCESS Fall Seminar will go back-to-back with the PhD seminar of the CLIMIT program, giving you an excellent opportunity to meet top-of-the-class researchers as well as the upcoming generation of CCS scholars.

The CLIMIT seminar will take place at the new offices of the Research Council at Drammensveien 288 (Lysaker, Oslo) on October 21–22 (from lunch till lunch). For more info, check the CLIMIT web pages.

The SUCCESS seminar is at the same location, starting after lunch on October 22 and lasting all day the 23.



Fall seminar – preliminary program

Key note speakers (open session; October 22)

- **Anita Torabi:** Strain localization in porous sandstone and its implication for CO₂ storage.
- **Knut Andreas Lie:** The MatMoRA II – SUCCESS Story: Results and impact.
- **Marte Gutierrez:** Carbon Capture, Utilization and Storage (CCUS) in the US/Canada/USA?
- **Sylvain Thibeau:** Study from Total for using Frigg for CO₂ storage.
- Joint FME SUCCESS and BIGCCS Initiative: Large Scale Storage on Norwegian Shelf.

Other activities (closed session; October 23)

- The new SUCCESS work packages (Reservoir; Containment; Monitoring)
- Selected in-depth talks, mostly related to the CCS pilots (Snøhvit; Sleipner; Longyearbyen)
- Results from the NORDICCS project

For updated program and registration, see the SUCCESS web site.

Two new associated projects proposed:

PROTECT and Safe long term storage

The SUCCESS family is steadily increasing. Two new research projects will – pending acceptance at our forthcoming General Assembly – get collaboration agreements with the center.

Safe long term storage sealing of CO₂ in hydrate is a UiB hosted project led by Bjørn Kvamme. The main objective of the project is to develop a new state of the art reservoir simulator capable of reliable modeling of scenarios related to combined safe long terms storage of CO₂ and production of CH₄. Among important deliverables from the project are a new reservoir simulator for combined safe long terms storage of CO₂ and energy production, and studies of the impact of hydrate sealing in aquifer storage of CO₂ and new state of the art models for hydrate phase transition kinetics.

Protection of Caprock Integrity for Large-Scale CO₂ Storage (PROTECT) is a UNI hosted project led by Sarah Gasda. The primary objective is to understand the impact of geomechanics, flow and chemistry on caprock integrity in order to ensure injectivity, maximize storage capacity and protect against CO₂ leakage from large-scale injection operations. The work will provide insights towards the attainable injectivity and capacity for real geologic systems, such as the saline aquifers on the Norwegian shelf.

Web site: <http://protect.b.uib.no/>

SUCCESS Scientific Advisory Committee (SAC)

Auli Niemi new member



Auli Niemi, a professor in Groundwater Modeling at University of Uppsala, is a new member of the SUCCESS SAC.

Niemi has over 25 years of experience on various aspects of geohydrology, including multiphase modeling, upscaling and site characterization. She is the coordinator of MUSTANG (a large-scale EU FP7 project for CO₂ geological storage) and also has a major role in designing and implementing the related Heletz deep CO₂ injection experiment. She is a work package leader in other CO₂ related EU FP7 projects; PANACEA, TRUST, and CO2QUEST. She has been convening a number of CO₂ sessions at EGU and is associate editor of *International Journal of Greenhouse Gas Technologies*.

We heartily welcome Auli on board. She is joining Dag Nummedal, Nick Riley and Sylvain Thibeau in making our advisory committee fully staffed again. We thank Claus Otto and Stefan Bachu, that are leaving the committee, for their efforts.

(Foto: Forskarbladet.se)

SUCCESS (Subsurface CO₂ Storage – Critical Elements and Superior Strategy) is one of several Norwegian centres for environment-friendly energy research, funded by the Norwegian Research Council and industry partners. For more info and contact address: www.fme-success.no.

To subscribe to this newsletter, please mail Charlotte.Krafft@cmr.no.