

Grant Agreement No.: 604656

Project acronym: NanoSim

Project title: A Multiscale Simulation-Based Design Platform for Cost-Effective CO₂ Capture Processes using Nano-Structured Materials (NanoSim)

Funding scheme: Collaborative Project

Thematic Priority: NMP

THEME: [NMP.2013.1.4-1] Development of an integrated multi-scale modelling environment for nanomaterials and systems by design

Starting date of project: 1st of January , 2014










Duration: 48 months

| WP N° | Del. N° | Title | Version | Lead beneficiary | Nature | Dissemin. level | Delivery date from Annex I | Actual delivery date dd/mm/yyyy |
|-------|---------|--|---------|------------------|--------|-----------------|----------------------------|------------------------------------|
| 9 | 5 | Description of the project within the NanoSim web-portal and user forum for support (18) | 0 | DCS | R | PU | 30/06/2014 | 30/06/2015 |

One of the main objectives of the dissemination WP9 is to bring NanoSim as close as possible to a wide audience of stakeholders, both from the general public as well as specialists. Fig. 1 shows a snapshot of the user forum for the COSI components CFDEM®coupling, LIGGGHTS® and ParScale – created administered by DCS. Fig 2. shows a snapshot of the NanoSim web portal, created and maintained by SINTEF.

FORUMS

✚ Log in to post new content in the forum.

| Forum | Topics | Posts | Last post |
|--|--------|-------|---|
|  ParScale - User and Developer Forum Discussions about the ParScale simulation engine go here! | 8 | 21 | By Riccardo Maione 3 weeks 1 day ago |
|  CFDEM®coupling - User Forum This is a forum dedicated to CFDEM®coupling using the LIGGGHTS® DEM code and OpenSource CFD. | 457 | 1951 | By j-kerbl 21 hours 58 min ago |
|  CFDEM®coupling- Developer Forum Topics related to developing with CFDEM®coupling can be discussed here: discussion about implementation details, C++, MPI and debugging tools | 18 | 41 | By Daniel Queteschner 1 month 3 weeks ago |
|  LIGGGHTS® - User Forum LIGGGHTS® related topics can be discussed here: discussion about models, installation, feature requests and general discussion | 1084 | 4827 | By aaigner 51 min 51 sec ago |
|  LIGGGHTS® - Developer Forum Topics related to developing with LIGGGHTS® can be discussed here: discussion about implementation details, C++, MPI and debugging tools | 74 | 273 | By richti83 2 weeks 6 days ago |
|  Bug Reports for CFDEM®coupling, LIGGGHTS®, and ParScale (Possible) bugs / suspicious behavior should be reported as a new thread here, not in the user forum. This should give both you and the developers a clear idea about the status of your bug report (submitted/assigned/fixe) | 65 | 271 | By naceur 1 week 2 days ago |
|  Post Processing Post processing of LIGGGHTS®/CFDEM®coupling/ParScale based simulations is discussed here | 107 | 494 | By JoshuaP 2 days 20 hours ago |
|  CFDEM®coupling, LIGGGHTS® and ParScale - Announcements from the developers Announcements from the developers go here | 129 | 156 | By ckloss 1 month 2 days ago |
|  CFD and DEM - General Discussion Anything that is related CFD and DEM modelling can be discussed here | 32 | 80 | By xlibp 1 week 1 day ago |

ACTIVE FORUM TOPICS

Cylindrical container with a random packing of spheres

stl files for LIGGGHTS_Benchmarking

What is the correct syntax for servo control wall in LIGGGHTS 3.X?

Insertion of particles takes too much time!

(CFDEM Tutorial) Only error occurs on 'cfdemPostproc/fillCylinder'

cfdem tutorial errors

CFDEMcoupling with latest OF-2.3.x FIX

More

WHO'S ONLINE

There are currently 4 users online.

aaigner

leila khajenoori

Riccardo Maione

suzdal

LOGIN

Login

Create new account

Request new password

Figure 1: User forums for support, available at <http://www.cfdem.com/forum>



NanoSim

NanoSim - A Multi-scale Simulation-Based Design Platform for Cost-Effective CO₂ Capture Processes using Nano-Structured Materials



NanoSim

NanoSim - A Multi-scale Simulation-Based Design Platform for Cost-Effective CO₂ Capture Processes using Nano-Structured Materials



NanoSim

Objectives

Summary

Consortium

Publications

News and Events

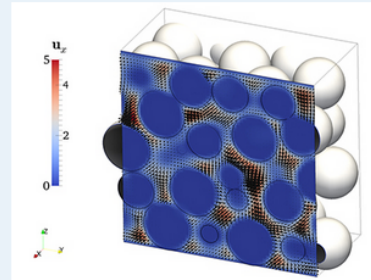
User forum

A Multi-scale Simulation-Based Design Platform for Cost-Effective CO₂ Capture Processes using Nano-Structured Materials (NanoSim)

The main objectives of the project are to:

1. Develop an open-source computational platform that will allow the rational design of the second generation of gas-particle CO₂ capture technologies based on nano-structured materials
2. Design and manufacture nano-structured material and shorten the development process of nano-enabled products based on the multi-scale modelling
3. Design and demonstrate an energy conversion reactor with CO₂ capture based on the superior performance of nano-structured materials

The figure shows a result for DNS of the flow through a particle bed



Project information

Duration: 01.01 2014 - 31.12 2017

Work programme: FP7 – NMP.2013

Total budget: 5,200 K€

Internal pages

These pages are for partners only and requires username and password.

Link to [NanoSim eroom](#)

Contact

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Figure 2: Description of the NanoSim project at the NanoSim website, available at

<http://www.sintef.no/projectweb/nanosim/>