
WP 9 - Dissemination and Education

Academic Training and Student Feedback

Task 9.4, Deliverable 9.10

Stefan Radl

Graz University of Technology

Christoph Goniva

DCS Computing GmbH

Part 1 - Course Portfolio Update

TUG

Courses Offered (weblink: <https://online.tugraz.at>)

- **Design of Multiphase Flow Processes / Pharmaceutical Multiphase Reactors**

Focus on multiphase flow modeling (with/without reactions), pharma applications, rheology of granular matter, fluidized beds, and **filtered flow models** (new!)

- **Bachelor / Master / PhD Projects**

Focus on equipment design and software training

Online Resources

- Some courses are public, e.g., the multiphase course of Dr. Radl
<https://tc.tugraz.at/main/course/view.php?id=579>

Participation

- SS 2017: **17 students**

DCS

Training Offered (weblink: <http://www.cfdem.com/>)

- **2-day Short Course LIGGGHTS®**
Tool-specific training on a soft-sphere simulator
- **2-day Short Course CFDEM®coupling and CFDEM®workbench (new!)**
Tool-specific training on an Euler-Lagrange simulator and GUI

Online Resources












- LIGGGHTS® <http://www.cfdem.com/media/DEM/docu/Manual.html>
CFDEM®coupling http://www.cfdem.com/media/CFDEM/docu/CFDEMcoupling_Manual.html
Course documents handed out to participants (commercial training; free for NanoSim partners)

Participation

- 2017 (Linz Workshop, March): **18 participants**
- 2017 (Linz Workshop, September): **15 participants**

Part 2 – The Feedback

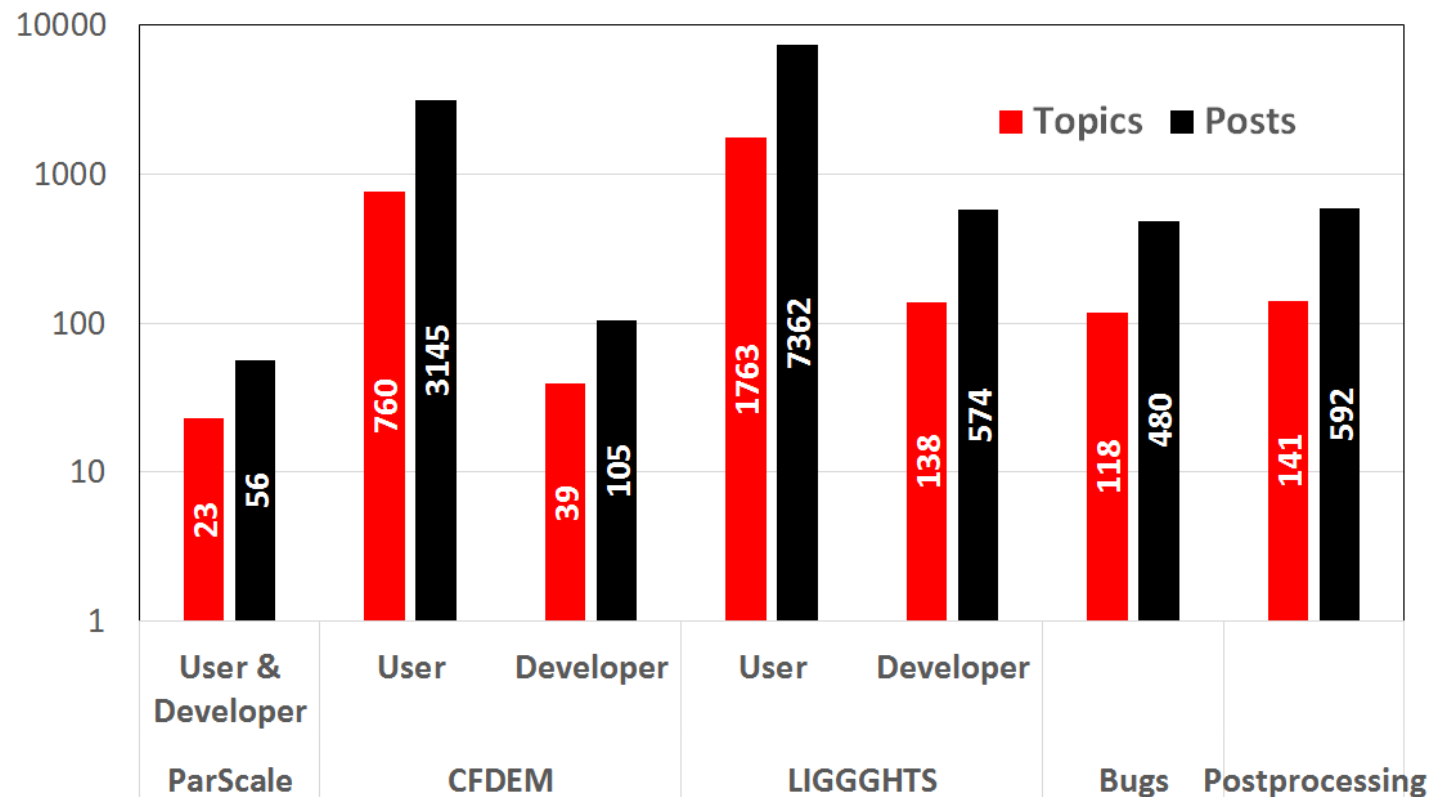
The OpenFOAM®, LIGGGHTS® and CFDEM® Forum

Forum	Topics	Posts	Last post
 CFDEM®workbench For questions and feed-back related to CFDEM®workbench STARTER, please post here!	17	53	By alice 2 weeks 3 days ago
 Contributed simulations, cases, scripts, tutorials Whenever you make something work which you think could be useful for others as well, please put it here!	17	40	By richti83 1 day 8 hours ago
 ParScale - User and Developer Forum Discussions about the ParScale simulation engine go here!	23	56	By nextdaysprint 3 hours 42 min ago
 CFDEM®coupling - User Forum This is a forum dedicated to CFDEM®coupling using the LIGGGHTS® DEM code and OpenSource CFD.	769	3180	By yesaswi92 20 min 38 sec 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	42	116	By medvedeg 8 hours 25 min ago
 LIGGGHTS® - User Forum LIGGGHTS® related topics can be discussed here: discussion about models, installation, feature requests and general discussion	1781	7453	By limone 48 min 21 sec ago
 LIGGGHTS® - Developer Forum Topics related to developing with LIGGGHTS® can be discussed here: discussion about implementation details, C++, MPI and debugging tools	139	579	By Daniel Queteschiner 2 days 8 hours 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/fixed)	118	483	By paul 1 week 20 hours ago
 Post Processing Post processing of LIGGGHTS®/CFDEM®coupling/ParScale based simulations is discussed here	141	598	By richti83 11 hours 4 min ago
 CFDEM®coupling, LIGGGHTS® and ParScale - Announcements from the developers Announcements from the developers go here	146	194	By arnom 2 weeks 1 day ago
 CFD and DEM - General Discussion Anything that is related CFD and DEM modelling can be discussed here	49	138	By akottian 2 days 9 hours ago

<https://www.cfdem.com/forum>

The OpenFOAM®, LIGGGHTS® and CFDEM® Forum

- Overview (December 2017, log-scaling)



The Questionnaire

- Hosted at <https://app.feedbackr.io/#/auditor/interact/SWFJF>
(The code is: **SWFJF**)
- Input **continuously** collected

Questions are related to:

- **Level of Study** (Bachelor / Master / PhD / Industry?)
- **Type of course**
- **How many people in the course?**
- **Quantity & quality of training material**
- **Suggestions**