




# SimPhoNy Dissemination file, M12

 SimPhoNy Joint Dissemination Activities:

- [Github](#)
  - [Simphony Website](#)
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 SimPhoNy Activities from Quantech - Pooyan Dadvan  
Conference Cluster Presentations: "Complete process simulation: requirements and solutions" Integrated Computational Materials Engineering Experts Group (ICMEg) 1st International Workshop, Aachen/Rolduc, June 24th to 27th 2014. [ICMEg](#)

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 SimPhoNy Activities from Biodfluidix: <http://www.biofluidix.com/en-research-projects-simphony.html>

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 SimPhoNy Activities from Enthought - Didrik Pinte - none yet

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 SimPhoNy Activities from Fraunhofer IWM:

Workshop/symposia Organization:

- Symposium on Multi-scale multi-physics modelling for nanomaterials and systems by design in the MSE 2014- Materials Science and Engineering Conference, September, 23 to 25, 2014 in Darmstadt, Germany

Conference Cluster Presentations:

- "Simulation framework for multiscale phenomena in micro and nano systems". Adham Hashibon, The Industrial Technologies 2014, April 2014 Athens, Greece.
- "Simulation framework for multiscale phenomena in micro and nano systems", Integrated Computational Materials Engineering Experts Group (ICMEg) 1st International Workshop, Aachen/Rolduc, June 24th to 27th 2014. [www.icmeg.info](http://www.icmeg.info) ICMEg Posters:

- "SimPhoNy: Simulation framework for multiscale phenomena in micro and nano systems". Industrial Technologies 2014, April 2014, Athens, Greece (1200 participants)
- "Computational design of wetting and spreading behaviour for

enhanced in-vitro-diagnostic applications". The 2nd International Conference on MicroFluidic Handling Systems, Freiburg, Conference Proceedings:

- "Computational design of wetting and spreading behaviour for enhanced in-vitro-diagnostic applications". Adham Hashibon, Matthias Gurr, Pit Polfer, Frank Burmeister, Torsten Kraft. The 2nd International Conference on MicroFluidic Handling Systems, 8-10 October 2014, Freiburg, Germany (<https://www.mfhs2014.uni-freiburg.de/conference/proceedings>)


Peer Reviewed Papers:

- T. Breinlinger, A. Hashibon, T. Kraft: Simulation of the influence of surface tension on granule morphology during spray drying using a simple capillary force model, submitted to Powder Technology on Dec. 23, 2014.
- T. Breinlinger, A. Hashibon, T. Kraft: Simulation of the spray drying of single granules: The correlation between microscopic forces and granule morphology, submitted to Journal of the American Ceramic Society on Dec. 22, 2014.

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 SimPhoNy Activities from MTT - Jari Hyvaluoma - none yet

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 SimPhoNy Activities from Mattila Keijo

Articles:

- Siebert D, Philippi P, Mattila K, Consistent lattice Boltzmann equations for phase transitions, Physical Review E 90 (5): 053310, 2014. (Phys. Rev. E)


Conference talks:

- Conference: Exascale Applications and Software Conference (EASC 2014), 2.-3.April 2014 Title: A hybrid OpenMP/MPI implementation of the lattice-Boltzmann method for large-scale fluid flow simulations in porous media (presented by Keijo Mattila) Session: 15.10 - 16.00 Paralell Sessions, 2.April 2014 Audience: approx. 20 (experts in the research topic)
- Conference: Discrete Simulation of Fluid Dynamics (DSFD 2014), 28.July-1.August 2014 Title: A finite-difference lattice-Boltzmann scheme for hydrodynamic simulations (presented by Keijo Mattila) Session: Simulation-1, 29.July 2014 Audience: approx. 60 (experts in the research topic)
- Conference: Materials Science Engineering (MSE 2014), 23.-25.September 2014 Title: Modelling diffusion across a membrane by the lattice-Boltzmann method (presented by Vesa Aho) Session: Multiscale multi-physics modelling for nanomaterials

and systems by design, 25.September 2014 Audience: approx. 20 (experts in the research topic)

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 SimPhoNy Activities from Technion-IIT

- Poster for Israel Physical Society Meeting on December 1st 2013, to announce Symphony project to Israeli Physicists - [poster\\_IIT\\_20131201.pdf](#)
  - ``A Rosetta Stone for AViz" Joan Adler's talk for 27th Athens,GA, USA CSP Workshop February 24-28, 2014. (Symphony Acknowledgement) that deals with AViz applications and python wrappers [-50 participants](#).
  - Manuscript from above talk (Symphony Acknowledgement) J. Adler, Hila Glanz and Nadir Izrael, ``A Rosetta stone" for AViz" [DOI10.1016/j.phpro.2014.08.122](#) Physics Procedia, 57c , pp2-6, (2014).
  - Talks about Symphony for Technion Undergraduates for local recruiting - Excellence program (23/12/14): <http://phycomp.technion.ac.il/~newphr76ja/metz/talktitle1.html> - [20 students](#) Senior undergraduates (25/3/2014): <http://phycomp.technion.ac.il/~phr76ja/doh/dohindex.html> - [40 students](#)
  - Presentation for researchers at NTU and A-Star HPC Center, Singapore on the Symphony project and AViz: <http://phycomp.technion.ac.il/~newphr76ja/athens15/ntuindex.html> - [5 participants](#). This was previous to a meeting (IUPAP world assembly), where Joan Adler was the Israeli representative and held discussions with the organisers of IUPAP sponsored CCP2016 in Suth Africa on outreach activities in nanoscience for black township children.
  - Manuscript submitted to Computer Physics Communications (Symphony Acknowledgement and three Symphony co-authors, Joan Adler, Adham Hashibon and Bastien Grosso), entitled ``Visualization of electronic density" Bastien Grosso, Valentino R. Cooper, Polina Pine, Adham Hashibon, Yuval Yaish and Joan Adler. Preprint [here](#).
  -  The AViz Listserv has been reopened and is located at: <http://listserv.technion.ac.il/ph-aviz-l.html>.
  - Numerous educational webpages with instructions for simulations using LAMMPS, QUANTUM ESPRESSO and AViz, full listing to be presented next year.
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