BGCE Research Day
Summer Term 2015
CE @ FAU
July 9th 2015
13:45 – 14:15 Welcome of Our Guests

14:15 – 14:30 Announcements

14:30 – 15:00 CSE students: Pro&Contra
After Studies: Stay abroad or stay home?

15:00 – 16:00 David B. Emerson (Tufts University):
Finite-Element and Multigrid Methods for Liquid
Crystal Configurations under the Frank-Oseen Free-
Energy Model

16:00 – 16:30 Coffee Break

16:30 – 17:00 Michael Rippl: Fluid-Particle Interaction with
Lattice Boltzmann.

17:00 – 17:30 COME students Work-in-Progress:
  – Massimo Carraturo: Lagrange multipliers in
    Contact Mechanics using Finite Cell Method
    (FCM).
  – Daniel Scheffold: Numerical shaker simulation -
    Dynamic FE-simulation for the lifetime
    assessment of the car front section.
  – Martin Ruchti: Shape Sensitivities in Flow
    Problems.

17:30 – 18:00 Boddu Vishal: Atomistic-to-Continuum Modeling.

18.00 Pizza
Location:
Room 01.150, Cauerstr. 11

Upcoming Events:

- **Compact Course (Erlangen):** 27-31. Juli 2015
  “Introduction to numerical analysis of stochastic differential equations” (Mattias Sandberg, KTH Stockholm)