

SSF project progress meeting minutes – 20141015

Participants:

Johan Liu, Per Hyldgaard, Zhibin Zhang, Subimal Majee, Andrei Vorobiev, Michael Andersson, Murali Murugesan, Di Jiang, Wei Mu, Yong Zhang, Nan Wang, Shuangxi Sun, Josef Hansson, Yifeng Fu

- Project homepage is created, Zhibin sends photo to Johan so that it can be uploaded. All partners send related fancy pictures (if you have) to Johan for uploading on homepage.
- First deliverable to be sent, JL-D1, due Nov 2014. Pics of printed G based ink could be needed from Zhibin.
- GaN substrate is wide bandgap and should be prevented from doping for quality control.
- G or GO used for inkjet printing? What's the concentration of oxygen group in reduced GO solution? This is very important for simulation for Per. Zhibin will measure the density of oxygen group and defects, Johan provides GO solution with and without Ag coating.
- Particles size: graphene flake size and Ag coating size, both influence printing process, decrease of G flake size is ongoing, further optimization on graphene and Ag coating needed. Zhibin & Johan.
- Per: GO could wet better than G, eventually we could not want to remove oxygen group, printing tests will be performed to decide.
- Control of G layers needed by Zhibin for inkjet printing, say 3-5 layers preferred.
- CNT doping: dopant should be selected for Per's simulation. Effect of density of doping on CNT performance is of interesting. Per needs picture on the surface, molecules for functionalization and doping. How many molecules attached on the CNT surface? Doping/functionalization priority list should be provided to Per. Johan.
- All PPTs will be circulated/uploaded onto webpage and only be internally used.
- Table showing all deliverables will be circulated around, Johan will send.
- All involved persons and their emails should be sent to Johan for info circulation.
- Next meeting: Mar 24, 2015. Starting from 10am in Chalmers.