Graphene Day: fundamentals, electronics, renewable energy

Workshop on Monday, July 9, 2012
at NEST Lab, Pisa, Italy
Contact: Stefan Heun (stefan.heun@nano.cnr.it)
Workshop “Graphene Day: fundamentals, electronics, renewable energy”

Monday, 9 July 2012 at Seminar Room, NEST Lab, Pisa, Italy

9:00 – 9:15 Opening, Welcome (Fabio Beltram, Lucia Sorba, Angelo Bifone)

9:15 – 10:55 Session  
**Graphene Fundamentals**  
*(Chair: Fabio Beltram)*

9:15 – 9:45 Chia-Hao Chen, National Synchrotron Radiation Research Center, Taiwan: *Dependence of core level energy of graphene with number of layers*

9:45 – 10:15 Chung-Lin Wu, National Cheng Kung University, Taiwan: *Graphene on Au-coated SiO₂ substrate: Its core-level photoelectron micro-spectroscopy study*

10:15 – 10:35 Deborah Prezzi, CNR-Nano, Modena, Italy: *Graphene nanoribbons: electronic and optical properties*

10:35 – 10:55 Camilla Coletti, IIT, Pisa, Italy: *Graphene Growth*

10:55 – 11:20 Coffee Break

11:20 – 13:00 Session  
**Graphene Electronics**  
*(Chair: Lucia Sorba)*

11:20 – 11:50 Forest Chien, Tunghai University, Taiwan: *Optical-controlled graphene/azocopolymer field effect transistor*

11:50 – 12:10 Pasqualantonio Pingue, SNS, Pisa, Italy: *SPM on suspended graphene nanostructures*

12:10 – 12:30 Stefano Roddaro, CNR-IOM, Trieste, Italy: *Suspected graphene devices*

12:30 – 12:45 Andrea Iagallo, SNS, Pisa, Italy: *SGM on graphene devices*

12:45 – 13:00 Massimo Morandini, SNS, Pisa, Italy: *STM and transport on graphene*

13:00 – 14:00 Lunch Break

14:00 – 15:50 Session  
**Hydrogen Storage in Graphene**  
*(Chair: Angelo Bifone)*

14:00 – 14:30 Amelia Montone, ENEA, Rome, Italy: *COST Action MP1103 – “Nanostructured Materials for Solid State Hydrogen Storage”*

14:30 – 15:00 Alessandra Sanson, CNR - Institute of Science and Technology for Ceramics, Faenza (RA), Italy: *EEA JP Energy storage*

15:00 – 15:20 Valentina Tozzini, CNR-Nano, Pisa, Italy: *Reversible Hydrogen Storage by Controlled Buckling of Graphene Layers*

15:20 – 15:35 Sarah Goler, IIT, Pisa, Italy: *Scanning tunnelling microscopy to image the zero layer of epitaxial graphene grown on SiC(0001)*
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15:35 – 15:50  Torge Mashoff, IIT, Pisa, Italy: *Functionalized graphene for hydrogen storage*

15:50 – 16:30  Coffee Break

16:30 – 18:00  Session  

**Plasmons in Graphene**  

*(Chair: Vincenzo Piazza)*

16:30 – 16:50  Marco Polini, CNR-Nano, Pisa, Italy: *The Plasmograph FIRB project*

16:50 – 17:10  Alessandro Tredicucci, CNR-Nano, Pisa, Italy: *Graphene-based THz detectors*

17:10 – 17:30  Andrea Gamucci, CNR-Nano, Pisa, Italy: *Artificial Graphene*

17:30 – 17:45  Davide Spirito, CNR-Nano, Pisa, Italy: *Hybrid Graphene/GaAs systems*

20:00 – 22:00  Dinner

Tuesday, 10 July 2012, 9:00 – 12:00: Lab tour at NEST, Pisa.