

PROGRAM

Trends in nanostructured carbon materials and devices

Friday, January 28th, 2022

Ore 9:15 Welcome - Gabriele Ferrini

Ore 9:30 Sergio Pezzini, CNR-NANO Laboratorio NEST, Italy
Twisted devices from CVD graphene

Ore 10:00 Alessandro Tredicucci, University of Pisa, Italy
On-chip strain engineering of two-dimensional materials

Ore 10:35 Steven De Feyter, KU Leuven, Belgium
Nanostructuring (2D) materials using molecules: from structure to function

Ore 11:10 Luca Petaccia, Elettra Sincrotrone Trieste, Italy
Band structure and many-body effects in doped graphene

Ore 11:45 Marco Polini, University of Pisa, Italy
Collective modes in graphene and twisted bilayer graphene: an introduction

Ore 12:20 Gianluca Fiori, University of Pisa, Italy
Printable and wearable electronics enabled by two-dimensional materials

Ore 12:55 Lunch

Ore 14:30 Cristina Africh, CNR-IOM, Italy
Aligned Zigzag "Pseudo-Ribbons" Embedded in Graphene on Ni(100)

Ore 15:05 Daniele Perilli, Università di Milano Bicocca, Italy
Chemical activated graphene layers for sensing applications

Ore 15:40 Aleksei Emelianov, National Research University of Electronic Technology, Moscow, Russia
Area-selective ALD on graphene enabled by two-photon oxidation

Ore 16:15 Sonia Freddi, Università Cattolica del Sacro Cuore, Italy
Gas sensor arrays for breathomics based on nanostructured carbon: from CNTs to graphene

Ore 16:50 Ivan Bobrinetskiy, Biosense Institute Novi Sad, Serbia
Graphene-field effect transistors for on-site detection of mycotoxins

Ore 17:25 Conclusions
