



9th SiNANO Modelling and Simulation Summer School

12th June – 16th July, 2021, at University of Glasgow, Glasgow, Scotland, UK

Announcement

Organisation Committee

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General Information

The SiNANO Modelling and Simulation Summer School is a bi-annual comprehensive set of classes aimed at doctoral and postdoctoral level researchers, and young academics and modelling and simulation expert in industry. Via a programme consisting of lectures, tutorials, advanced discussion groups, the participants will expand and refine their knowledge of the modelling and simulation of cutting-edge semiconductor devices, with the world's leading device modelling and simulation experts. The need for advanced modelling and simulation will be motivated by lectures on extremely scaled and novel Nano electronic devices covering the *More Moore*, *More Than Moore* and *Beyond Moore* domains.

Scope

This year the SINANO Summer School will target multi-scale modelling and simulation of semiconductor devices. It includes a total of 15 lectures targeting topics related to the modelling and simulation as well as fabrication and characterization of different types of semiconductor nanoelectronic devices. The Summer School will cover to the following topics:

- Novel nanoelectronics devices and corresponding modelling challenges.
- Material modelling and atomic scale device simulation.
- Quantum transport and simulations.
- Monte Carlo and Wigner Monte Carlo simulations.
- Compact modelling
- Process simulations
- Design Technology Co-Optimization (DTCO)

Invited Speakers

Speaker	Organisation	Speaker	Organisation
Dr. Victor Moroz	Synopsys	Prof. Gerhard Klimeck	Purdue University
Prof. Adrian Ionescu	EPFL	Prof. Philippe Dollfus	University Paris Sud
Prof. Mathieu Luisier	ETH	Prof. Nicola Marzari	EPFL
Dr. Kirsten Moselund	IBM Zurich	Prof. Francisco Gamiz	University of Granada
Dr. Soren Smidstrup	Synopsys	Prof. Max Fischetti	The Uni. Texas - Dallas
Dr. Eberhard Bar	IISB Fraunhofer	Prof. Tibor Grasser	TU Vienna
Dr. Yann-Michel Niquet	CEA Leti	Dr. Cory Weber	Intel USA
Dr. Plamen Asenov	Synopsys		

Further Information

Information about the registration fees, hotel reservation and program will be provided in the first week of February 2020 at conference website [here](#).