

IEEE Summer School 2017

Nanoelectronic technologies & devices - From basic principles to highly reliable applications

July 10-14, 2017

School venue: LAAS-CNRS, Toulouse (France)



Scope

Last year IRT Saint Exupéry successfully organized the first **Nanoscale Runners International Forum – NANORUN 2016** and has the willingness to continue such effort to build a long term series of event in this discipline in the coming years and oriented for the benefits of this community.

Today, IRT launches the IEEE Summer School on Nanoelectronics oriented to an overview of current fundamental and applied research topics covering from the physics of wide bandgap semi-conductor devices (GaN, SiC) to the final system and application.

The course will give strong insight on the following themes:

- Introduction to nanoscience and nanotechnology applied to semiconductors and concept descriptions in solid-state physics of semiconductors, nanoelectronics and related material technology (CMOS bulk, FinFET, SOI, FD-SOI, Nanowire and Carbon nanotube transistors, 3D packaging).
- Notions in the fundamental solid-state physics of Wide-Bandgap semiconductor devices (GaN, SiC).
- Aeronautics, space and automotive applications with strong emphasis to give fundamental description of what the impact of harsh stress environment on nanoelectronics reliability engineering and Product Life Cycle are.

Early¹ registration Fees² - Before May 26th 2017

Student regular subscription	288 €
IEEE member regular subscription	720 €
Non IEEE member regular subscription	900 €
Extra ticket (Welcome cocktail, Gala dinner, Cité de l'Espace)	105 €
Exhibitor booth extra-subscription	250 €
Bundles for multiple subscription program³	
Gold pack (set of 2 full access badges)	1,400 €
Premium pack (set of 3 full access badges)	2,000 €
Titanium pack (set of 4 full access badges)	2,450 €

1. Before May 26th. Add 15% for late registrations.

2. **Tax included:** Registration fees include full access to course and poster sessions, slide and course proceeding, round tables, networking and cocktail venue, coffee breaks (morning and afternoon), lunch buffets, free transportation tickets, Cité de l'Espace free access and Gala Dinner.

3. Bundle multiple subscription give full access to the event respectively for two, three or four attendees each day. List of name of attendees and corresponding dates of presence must be registered. Badges with list of attendees/dates must be visible at any time during the courses.

Organized by IRT Saint Exupéry, this Summer School is oriented to PhD students, post-docs and engineers.

To be held in Toulouse (France) - world center for aeronautics known as Airbus valley - European capital of the space industry and number 1 in France for embedded systems.

In this reach environment, the IEEE NTC Summer School offers a great opportunity to learn how disruptive technologies are playing key role in interdisciplinary research and industry leaders.



IEEE
Nanotechnology
Council
Advancing Nanotech for Humanity

Lecturers:

Prof. Joseph BERNSTEIN, Ariel Univ., Ariel, Israel
Dr André CABARBAYE, CNES, Toulouse France
Prof. Marc CAHAY, Univ. of Cincinnati, Cincinnati (OH), USA
Prof. Patrick CHASKIEL, CERTOP Laboratory, Univ. of Toulouse, Toulouse, France
Prof. Mauro CIAPPA, ETH, Zurich, Switzerland
Dr Nadine COLLAERT, IMEC, Leuven, Belgium
Dr Sombel DIAHAM, Laplace Laboratory, Univ. of Toulouse, France
Prof. Jérémie GRISOLIA, LPCNO, Univ. of Toulouse, Toulouse, France
Dr Guilhem LARRIEU, LAAS-CNRS, Univ. of Toulouse, Toulouse, France
Dr Marie-Laure LOCATELLI, Laplace Laboratory, Univ. of Toulouse, Toulouse, France
Prof. Adnen MLAYAH, CEMES-CNRS, Univ. of Toulouse, Toulouse, France
Prof. Frédéric MORANCHO, LAAS-CNRS, Univ. of Toulouse, Toulouse, France
Prof. James E. MORRIS, Life Fellow IEEE, Portland State Univ., Portland (OR), USA
Dr Sebastien PLISSARD, LAAS-CNRS, Univ. of Toulouse, Toulouse, France
Prof. Ninoslav STOJADINOVIC, Fellow IEEE, Univ. of Nis, Serbia
Prof. Qing ZHANG, Nanyang Technological University, Singapore

Conference Secretariat

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More information: www.irt-saintexupery.com/ieee-summer-school/

REGISTER BEFORE May 26th 2017 DEADLINE: www.irt-saintexupery.com/ieee-summer-school/registration-2/

