PREFACE

Edison 16

To cite this article: Luca Varani et al 2009 J. Phys.: Conf. Ser. 193 011001

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- 19th International Conference on Electron Dynamics in Semiconductors, Optoelectronics and Nanostructures (EDISON'19)
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On behalf of the organizing committee we welcome all participants to the 16th International Conference on Electron Dynamics In Semiconductors, Optoelectronics and Nanostructures (EDISON).

Since the first meeting, organized in 1973 in Modena (Italy), this international conference has been regularly organized mostly each two years, and after 28 years EDISON is back to Montpellier for its 16th edition.

This conference was previously known as "Hot Carriers In Semiconductors" (HCIS). For some years the name was changed into "Nonequilibrium Carrier Dynamics in Semiconductors" (keeping the acronym HCIS). Then, during the last meeting of the international advisory committee in Tokyo, the decision was taken to find a new denomination that should be more adapted to the latest evolutions in the domains covered by the conference. After several discussions and a vote within the committee, the new acronym of EDISON was chosen. Therefore EDISON 16 can be considered as the last of a long series of conferences and, at the same time, the first of a new cycle of conferences.

The primary focus of EDISON is to provide an international meeting place to discuss the latest progress in the field of nonequilibrium classical and quantum carrier dynamics, from semiconductor bulk materials up to advanced structures and nanometric devices. This includes: classical incoherent transport, as well as coherent transport, usually analyzed by means of ultrafast electrical and optical excitations. To accompany the newest developments, TeraHertz phenomena, with a special attention to quantum cascade lasers, have been added to the list of topics. More recently new subjects have been included such as spintronics, transport in organic materials, graphene and carbon nanotubes. This list of topics is regularly modified and updated at each edition of the conference to represent but also anticipate the latest scientific evolutions.
The distinctive features of EDISON are:

- A long-lasting history of 36 years.
- A fruitful interplay between fundamental and applied science due to a balanced participation of physicists and engineers.
- Emphasis is put on the physics of future devices rather than on the optimization of existing devices.
- A balance between theoretical and experimental contributions characterizes the scientific program.
- The scientific and advisory committees are composed by well-recognized scientists.

This year the scientific program was composed by more than 200 contributions divided into 60 oral presentations and 2 poster sessions. To keep a high scientific level, two independent referees have reviewed all submitted abstracts. We are happy to have drawn attendance from more than 30 different countries.

We hope that EDISON 16 has been an excellent opportunity for you to meet with colleagues from all over the world in an informal atmosphere, create an opportunity for networking, sharing of scientific and technical information and the building of trust relationships internationally.

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