



SiNANO-NEREID Workshop:

Towards a new NanoElectronics Roadmap for Europe

Leuven, September 11th, 2017



❖ **Members:**

23 laboratories from 12 European countries, representing leading partners from the Academic Community (> 1200 scientific/technical staff in Nanoelectronics)

❖ **Legal entity:** French Association

❖ **Structure:**

- General Assembly (all Members)
- Governing Board (5 Members)
- Director of the Institute



www.sinano.eu

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Enrico Sangiorgi - Director of SiNANO Institute

- **Establish** durable EU Network of researchers from European Scientific and Academic Community to form a *distributed Centre of Excellence* in the Nanoelectronics field
- **Promoting, proposing and executing European projects.** SINANO facilitate the involvements of its Partners in European projects starting from the Consortium build-up, project proposal preparation and execution (management & dissemination). Noticeable examples are the Projects Nanosil, Nanofunction, Guardian Angels, III-V-MOS, NEREID, Nanonets2Sense.
- **Coordinating the Roadmapping activities at European and International levels,** e.g. **NEREID H2020 Project** devoted to Nanoelectronics Roadmapping, European ECS (Electronic Components and Systems) Strategic Research Agenda, IRDS International Roadmap for Devices and Systems,
- **Dissemination events: workshops** – e.g. the Sinano Workshop during the ESSDERC-ESSCIRC Conference; **training** – e.g. the Sinano Modelling and Migas Schools, for disseminating the knowledge.,

13th edition of the SINANO Workshop in the framework of ESSDERC-ESSCIRC

- 09:00 Welcome: Enrico Sangiorgi (SiNANO Institute)
- 09:05 "**Presentation of the NEREID Project**" Francis Balestra (Grenoble INP/CNRS)
- 09:25 "**European Status, Vision and Perspectives in Nanoelectronics**" Francisco Ibanez (European Commission)
- 10:00 "**Emerging technologies for Beyond CMOS**" Jouni Ahopelto (VTT) & "**Alternative Computing Paradigms**" Clivia Sotomayor Torres (ICN2)
- *10:45 Coffee break*
- 11:00 "**Advanced logic: Nanoscale FET**" Anda Mocuta (IMEC) & "**RF and mmW Design / Connectivity**" Yann Deval (IMS Bordeaux)
- 11:45 Functional Diversification: "**Smart Sensors**" Adrian Ionescu (EPFL), "**Smart Energy Devices**" Steve Stoffels (IMEC) & "**Energy for Autonomous Systems**" Stéphane Monfray (ST Microelectronics)
- *12:45 Lunch*
- 14:00 "**System Design**" & "**Heterogenous Integration**" Danilo De Marchi (POLITO) & Holger Schmidt (Infineon)
- 14:45 "**Equipment and Manufacturing Science: Large area epitaxy of 2D materials for nanoelectronics**" Thanasis Dimoulas (NCSR)
- 15.30 Conclusions: Enrico Sangiorgi, SINANO Institute
- *15.45 End of the Workshop*

