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NEREID-SINANO-Workshop "Nanoelectronics and Smart System Technologies for Future applications"

2018/06/01

Embedded in the **ESSDERC/ESSCIRC 2018 conference** [1], in Dresden, Germany, NEREID had a workshop on 3/09/2018 to report and exchange on its recent findings on the way to map the future of European Nanoelectronics. The program is available below.



Topic: "Nanoelectronics and Smart System Technologies for Future applications"

Schedule and Location



Schedule: Monday, September 3, 2018, 08:15-19:00

Location:

TU DRESDEN Chemistry (CHE),
Room 183 (1st Floor) [2]
Bergstrasse 66,
01069 Dresden
Germany

Contact



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Registration



Registration: <https://www.esscirc-essderc2018.org/howtoregister> [3]

Program



The program is also available here: [Link to the program](#) [4]

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|-------|--|
| 08.15 | Welcome and Introduction
-- Enrico Sangiorgi (IUNET, Director SINANO Institute) |
| 08.30 | "General Presentation of the NEREID Project"
-- Francis Balestra, NEREID Coordinator (Grenoble INP/CNRS) |
| 08.50 | "Beyond CMOS Roadmap for
Emerging technologies and Alternative Computing Paradigms"
-- Jouni Ahopelto (VTT) & Clivia Sotomayor Torres (ICN2) |

Advanced Logic and Connectivity
09:20 1) **Nanoscale FETs Roadmap**: Anda Mocuta (IMEC)
09:40 2) **Connectivity Roadmap**: Didier Belot (CEA-LETI)

10.00 Coffee Break

Functional Diversification
10.30 **Smart Energy Roadmap**: Enrico Sangiorgi (IUNET, Director SINANO Institute)
10:50 **Smart Sensors Roadmap**: Adrian Ionescu (EPFL)
11:10 **Energy for Autonomous Systems Roadmap**: David Holden (CEA- LETI)

11.30 **"System Design and Heterogeneous Interaction Roadmap"**
-- Georgios Fagas (Tyndall)

12.00 **"Equipment and Manufacturing Science"**
-- Markus Pfeffer (Fraunhofer)

12.30 Lunch

13:30

Nanonets2Sense: Nanonet-based integrated sensors for health and well-being

13:30-13:55 "Integration concept and project overview": Mireille Mouis, CNRS-GINP Nanonets2Sense Coordinator
13:55-14:20 "Engineering of Si and ZnO nanonets for the fabrication of functional devices": Céline Ternon, GINP
14:20-14:45 "Si nanowire-based biosensors integration with CMOS": Per-Erik Hellström, KTH
14:45-15:10 "Characterization and modelling of Nanonet-based FETs in the presence of percolating effects": Thibault Cazimajou, CNRS-GINP
15:10-15:35 "Low-power readout for threshold voltage shifts detection": Saul Rodriguez, KTH
15:35- 16:00 "Chemiresistors for breath analysis": Claudio Zuliani, ams UK

16:00 Coffee Break

Convergence: Frictionless Energy Efficient Convergent Wearables for Healthcare and Lifestyle Applications

16:30-16:55 General Presentation: Adrian Ionescu, EPFL, Convergence Coordinator
16:55-17:20 "Wearable physical and physiological low power sensors": Denis Flandre, UCL
17:20-17:45 "Wearable environmental sensors: gas and particles": Cosmin Roman, ETHZ
17:45-18:10 "Energy harvesting/ Energy management": Aldo Romani, IUNET
18:10-18:35 "Sensor and Energy Harvesting flexible platform": Elise Saoutieff, CEA
18:35-19:00 "Application scenarios and validation plan": Saverio De Vito, ENEA

Most recent information on the workshop and the location is to be found on the website of ESSDERC/ESSCIRC at <http://www.essc-essderc2018.org/workshops> [5]

The NEREID project (ICT-CSA-685559) is supported within the Research and Innovation Programme **Horizon 2020** by the EU.

Source URL: <https://www.neroid-h2020.eu/content/neroid-sinano-workshop-nanoelectronics-and-smart-system-technologies-future-applications>

Links:

- [1] <http://www.essc-essderc2018.org/>
- [2] <https://navigator.tu-dresden.de/etplan/che/01?language=en>
- [3] <https://www.essc-essderc2018.org/howtoregister>
- [4] <https://www.neroid-h2020.eu/system/files/files/workshops/Programme%20Joint%20SINANO-NEREID-NN2S-Convergence%20ESSDERC2018%20Workshop.pdf>
- [5] <http://www.essc-essderc2018.org/workshop>