



IWCM² WORKSHOP 2019

INTERNATIONAL WORKSHOP ON CHARACTERIZATION AND MODELING OF MEMORY DEVICES

October 3rd-4th, Politecnico di Milano, Milan, Italy

3 October 2019 – Aula De Donato, P.zza Leonardo da Vinci 32

09:30 Registration

10:10 Welcome

1st Session: Plenary Talks

10:30 *Memory Technology as a Key Enabler for Future Computing Systems* - Greg **Atwood**, Micron Technology - USA

11:15 *Novel Technologies for Artificial Intelligence: prospects and challenges* - Stefano **Ambrogio**, IBM Almaden Research Center - USA

12:00 Lunch

2nd session: Phase Change Memories

13:45 *Chemical design principles for cache-type Sc-Sb-Te phase-change materials* - Wei **Zhang**, Xi'an Jiaotong University - China

14:20 *Embedded Phase Change Memories for 2020s* - Paola **Zuliani**, ST Microelectronics - Italy

14:55 Coffee Break

3rd Session: Atomistic simulations

15:30 *First-principles modeling of OTS chalcogenides for SELECTORS* - Sergiu **Clima**, University of Antwerp, Belgium

16:05 *Defects in Crystalline and Amorphous gate oxide films* - Alex **Schluger**, Department of Physics and Astronomy, UCL - UK

16:40 Social Program

4 October 2019 – Aula De Donato, P.zza Leonardo da Vinci 32

4th Session: Plenary talks

09:00 *Discovery and characterization of novel materials for electronic applications* - Nicola **Marzari**, École Polytechnique Fédérale de Lausanne - CH

09:45 *Memory-Centric Artificial Intelligence with Memory Nanodevices* - Damien **Querlioz**, Université Paris Saclay - France

10:30 Coffee Break

5th Session: Emerging neuromorphic devices

11:00 *Intelligent Computing in Memristors* - Huaqiang **Wu**, Tsinghua University - China

11:35 *Organic Electronics for Neuromorphic Computing* - Yoeri **van de Burgt**, Eindhoven University of Technology - NL

12:10 Lunch

6th Session: Emerging memory materials

14:00 *Antiferromagnetic spintronics* - Tomas **Jungwirth**, Institute of Physics of the Czech Academy of Sciences – Czech Republic

14:35 *Interoperable solutions for the simulation of phase change memories* - Arrigo **Calzolari**, CNR - Italy

15:10 Adjournal

More info available on the workshop website at www.iwcm2.eu

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