



The Italian Chapter of IEEE Magnetics Society, in collaboration with the University of Messina,

organizes

New direction for magnetic and mechanical sensors

Messina (Italy) 24th - 26th February 2020

Speakers:

Prof. Oscar Alejos. University of Valladolid, Valladolid, Spain

Dr. Luca Boarino, INRIM Torino, Italy

Prof. Caterina Ciminelli. Politecnico di Bari, Italy

Prof. Vincent Cros. Unité Mixte de Physique CNRS/Thales, France

Prof. Giovanni Finocchio, University of Messina, Italy

Prof. Thomas Hauet. University of Lorraine, France

Dr. Olivier Klein. SPINTEC, CEA-Grenoble, CNRS, Université Grenoble Alpes, France

Dr. Paola Tiberto. INRIM Torino, Italy

Dr. Riccardo Tomasello. Foundation for Research and Technology-Hellas, Greece

Dr. Vito Puliafito. University of Messina, Italy

Prof. Rosario Sinatra. University of Catania, Italy



Co-chairs:

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Dr. Paola Tiberto

Istituto Nazionale di Ricerca Metrologica

Workshop New direction for magnetic and mechanical sensors

IEEE Magnetic society (Italy Chapter)

Messina (Italy), 24th-26th of February, 2020

PROGRAM

Monday the 24th of February



9:00 – 9:15	Welcome and Opening
9:15– 9:45	Prof. Vincent Cros. Unité Mixte de Physique CNRS/Thales, France Physics and opportunities of skyrmions in multilayers
9:45 – 10:00	Dr. Luca Boarino . Istituto Nazionale di Ricerca Metrologica, Torino, Italia Nanofabrication by supra molecular self assembly: application in magnetism
10:00 – 10:15	Dr. Paola Tiberto. Istituto Nazionale di Ricerca Metrologica, Torino, Italia Magnetisation reversal in high-density magnetic nanodots by diblock copolymer nanolithography
10:15 – 10:45	Coffee break
10:45 – 11:15	Prof. Thomas Hauet. University of Lorraine, France Magnetic properties of NiTi shape memory alloys and NiTi/Ni bilayers
11:15 – 11:45	Dr. Riccardo Tomasello. Foundation for Research and Technology-Hellas, Greece Skyrmion stabilization in magnetic multilayers
11:45– 12:00	Prof. Oscar Alejos. University of Valladolid, Valladolid, Spain Application of the two sublattice model to the field-driven and current-driven domain wall dynamics in ferrimagnets
12:15– 12:30	Round Table. Next directions in development of magnetic and mechanical sensors

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Tuesday the 25th of February

9:00 – 9:30	Dr. Olivier Klein. SPINTEC, CEA-Grenoble, CNRS, Université Grenoble Alpes, France Long range coupling of magnetic bi-layers by coherent phonons
9:30 – 10:00	Prof. Caterina Ciminelli. Politecnico di Bari, Italy Optoelectronic miniaturized systems for nave band chirped waveform generation in Ka-band
10:00 – 10:15	Dr. Valentino Romano. University of Messina, Italy Graphene-based electrodes for high areal-performance supercapacitors
10:15 – 10:50	Coffee break
10:50 – 11:20	Dr. Rosario Sinatra. University of Catania, Italy Virtual Biosensor for Medical Warning Precursors
11:20 – 11:50	Dr. Vito Puliafito. University of Messina, Italy Micromagnetic approach for studying THz dynamics in antiferromagnetic spintronic oscillators
11:50 – 12:05	Prof. Giovanni Finocchio. University of Messina, Italy Mass-in-mass periodic systems for the development of new mechanical devices
12:05 – 12:15	Closing



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Wednesday the 26th of February

9:00 – 11:30

Visit to the Laboratory of the University of Messina

