



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. Universiy 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:

Prof. Francesca Garescì

University of Messina

Dr. Luis Sánchez-Tejerina

Politecnico di Bari

Contact information: f.garesci@unime.it

Scientific commitee:

Prof. Giovanni Finocchio (chair)

University of Messina

Dr. Anna Giordano

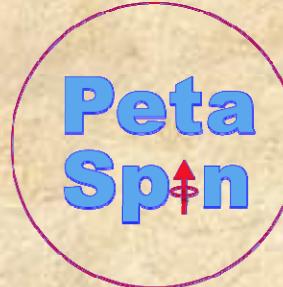
National Institute of Geophysics and Vulcanology

Prof. Mario Carpentieri

Politecnico di Bari

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





Workshop New direction for magnetic and mechanical sensors

IEEE Magnetic society (Italy Chapter)

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



PROGRAM

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





Workshop New direction for magnetic and mechanical sensors

IEEE Magnetic society (Italy Chapter)

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



PROGRAM

9:00 – 11:30

Visit to the Laboratory of the University of Messina

Wednesday the 26th of February

**Peta
Spin**