

2nd Colombian School on Magnetism and Magnetic Materials

3-6 December 2019, Bogotá, Colombia

Universidad de los Andes, Universidad ECCI

Keynote Speakers

Dr. Krzysztof Chwastek

Czestochowa University of Technology, Poland

"Fundamentals on magnetism for science and engineering"

Dr. Daniel Salazar Jaramillo

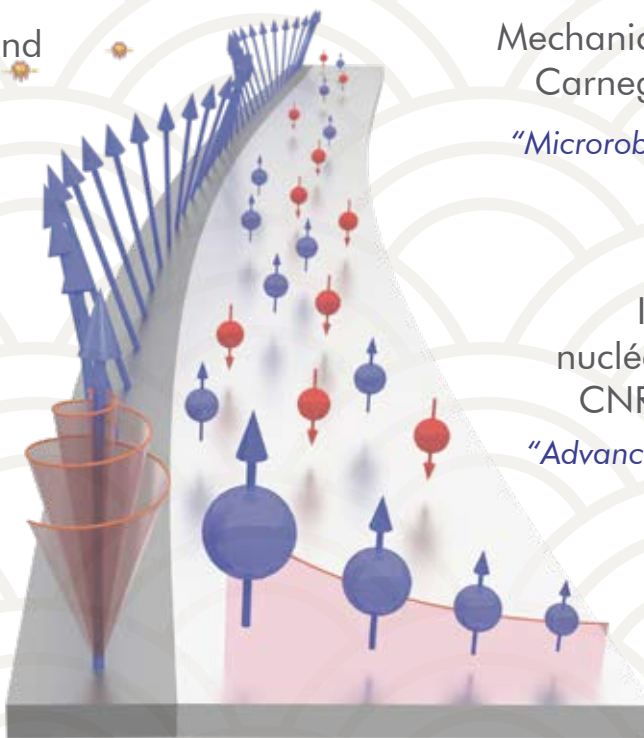
BCMaterials,
Basque center for materials, applications
& nanostructures, Spain

"Advance functional materials for magnetism"

Dr. Alex Frano

University of California San Diego, USA

"Advance X-ray based techniques in magnetism"



Dr. Camilo Vélez

Mechanical Engineering Department
Carnegie Mellon University, USA

"Microrobots and magnetic microsystems"

Dr. Andrés Santander

Institut national de physique
nucléaire et de physique des particules
CNRS - Université Paris Sud, France

"Advance X-ray techniques: Spin-resolved ARPES"

Dr. Diego Muraca

IFGW - Campinas, Brazil

"Magnetism in nanostructures"

Experimental Sessions

- Growth of magnetic nanostructures (0D to 2D)
- Micromagnetic simulations
- Montecarlo and DFT methods in magnetism
- Nanostructures for magnetic hyperthermia
- Use of magnet nanoparticles for textile wastewater treatment inside microfluidics
- Scanning microscopy techniques for characterization of magnetic nanostructures
- Electronic transport of magnetic nanostructures (high fields and low temperatures)
- Synthesis and separation of magnetic nanoparticles by coprecipitation and microfluidics

Tutorial Sessions

"Fundamentals of Microrobots Fabrication and Applications"

by **Dr. Camilo Vélez**, Mechanical Engineering Department,
Carnegie Mellon University, USA.

"Functionalization of Magnetic Nanocompounds for their use in the Pharmaceutical, Chemical, Biological and Material Industries"

by **Dr. Johann Osma**, Electronic Engineering Department,
Universidad de los Andes.

Further information and registration:



<http://cs3m.uniandes.edu.co>

Inscriptions open!

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