

## DANUBIAN Delegation

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Dr. Carmen Moldovan is the Head of the "Laboratory for Microsystems in Biomedical and Environmental Applications" at IMT-Bucharest. She graduated in Electronics and Telecommunications and holds a PhD in Microsensors. She was working at Microelectronica Bucharest in CMOS Technology and joint IMT-Bucharest in 1995, working in simulation, design, technology and characterization of microsystems, data acquisition and signal processing. She was/is involved in more than 15 EU Projects and 20 National Projects and published more of 120 papers in journals and Conference Proceedings. She holds 7 patents. She was (1998-2010) part-time professor at Politehnica University of Bucharest providing courses on MEMS technology and applications.

Dr. Moldovan contributed and is currently coordinating several applications dedicated to the market: Piezoelectric MEMS for Efficient Energy Harvesting, Autonomous system for nitrites/nitrates and heavy metals monitoring of natural water sources; Blood pressure monitoring bracelet for early detection of preeclampsia; Integrated Platform for Pesticids Detection: Micro Immunosensors Platform for Metabolic Syndrome Investigation, Microbiosensor arrays fabrication and portable DETECTION apparatus development for Acute Myocardial Infarction diagnostic, Apparatus for optical and electrical monitoring of drugs toxicity using cell culture, and eNOSE (Electronic Nose for detection of low concentration pollutant and explosive gases).