



NETWORKING CENTER FOR EXCELLENCE IN NANOELECTRONIC DEVICES FOR AIR MONITORING

‘Smart Sensor Technologies for Next-level Air Quality Monitoring’

Workshop at the International Semiconductor Conference CAS 2025

10th of October 2025

Hotel Sinaia, Sinaia, Romania

WORKSHOP AGENDA

Time	Topic	Presenter
Fri 10th Oct		
11:30 – 11:35	Opening statement	Carmen Moldovan National Institute for R & D in Microtechnologies
11:35 – 11:55	Electrodeposited PANI/Azulene Films on IDEs for Formaldehyde Detection: A Preliminary Study <i>Alexandru Grigoroiu, Mihaela Savin, Costin Brasoveanu, Veronica Anastasoae, Carmen Marinela Mihailescu</i>	Alexandru Grigoroiu National Institute for R & D in Microtechnologies
11:55 – 12:15	PANI- based resistive chemosensors: a morphological study <i>Alessia Famengo, Francesca Visentin, Naida El Habra, Alexandru Grigoroiu, Carmen-Marinela Mihailescu, Mihaela Savin, Carmen Moldovan, Silviu Dinulescu, George Stelian Muscalu, Bogdan Firtat, Maria Losurdo</i>	Alessia Famengo Institute of Condensed Matter Chemistry and Tehnologies for Energy
12:15 – 12:30	Modular reconfigurable electronics for a better database in air quality monitoring <i>Silviu Dinulescu, Alexandru Grigoroiu, Savin Mihaela, Carmen Mihăilescu, Costin Braşoveanu, George Muscalu, Marian Ion, Adrian Anghelescu, David Dragomir, Bogdan Firtat, Carmen Moldovan</i>	Silviu Dinulescu National Institute for R & D in Microtechnologies
12:30 – 12:45	Piezoelectric MEMS energy harvester systems for portable array sensors <i>George Muscalu, Silviu Dinulescu, Bogdan Firtat, Adrian Anghelescu, Costin Brasoveanu, Alexandru Grigoroiu, Carmen Moldovan</i>	George Muscalu National Institute for R & D in Microtechnologies
12:45 – 13:00	Magnetic behavior and antisite defects in Sm ₂ CoMnO ₆ double perovskite: insights from first-principles calculations <i>Claudia Caddeo, Genis Lleopart Motis, Alessandra Satta, Tapati Sarkar, Francesco Congiu, Giuseppe Muscas</i>	Claudia Caddeo Istituto Officina dei Materiali
13:00 – 13:15	PANI-based resistive chemosensors for sensitive and selective gas detection <i>I. Antohe, A.M. Popa, A. Stochioiu, L.I. Toderascu, O. Gherasim, V.A. Antohe, E. Manaila, G. Craciun, C. Luculescu, G. Socol</i>	Iulia Antohe National Institute for Laser, Plasma & Radiation Physics
13:15 – 14:00	Lunch	



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