



ACADEMIA ROMÂNĂ
Secția de știința și tehnologia informației

Forum României în Micro- și nanoelectronică

INVITAȚIE-PROGRAM

6-7 noiembrie 2018

Forum Romanians in Micro- and Nanoelectronics

(6-7 November, 2018)

Aula Magna of the Romanian Academy

Forum I (6th of November, 2018)

9.00 a.m. Opening of the Forum **Acad.Dan Dascălu**

Session I A (9.10 a.m.-10.30 a.m.). Chair SORIN CRISTOLOVEANU

IONUT RADU, Parc Technologique des Fontaines, 38190 Bernin, France, *Material physics and technologies for substrate engineering to address challenges of semiconductor nanotechnologies*, Soitec.

MIRCEA DUSA, ASML Belgium, Kapeldreef 75, B-3001 Leuven, Belgium, *Moore's Law and Optical Lithography Drive of the Semiconductor Industry Progress*.

FLORIN UDREA, Cambridge University, Cambridge CB3 0FA, *Challenges in power semiconductor devices: technologies of the future*.

VIOREL BANU, D+T Microelectrónica A.I.E., Campus UAB, 080193 Bellaterra-Barcelona, Catalunya, Spain, *The wide-gap semiconductors, a new trend of power semiconductor devices development*.

Session I B (11.00 a.m.-12.40 p.m.). Chair ANDREAS WILD

MARIUS NEAG, Technical University, Cluj-Napoca, Romania, *Systematic and optimized design of analog ICs*.

IOAN-LUCIAN PREJBEANU, CEA, CNRS, INAC-SPINTEC, Grenoble, France, *Magnetoresistive random-access memory (MRAM) concepts for extended scalability and ultrafast switching*, Univ.Grenoble Alpes.

ALEXANDRU MULLER, IMT Bucharest, Romania, *Novel high performance sensors using SAW resonators constructed on GaN/Si and operating at GHz frequencies*.

ADRIAN IONESCU, EPFL Laussane, Elveția, *Energy Efficient Electronics to Revolutionize Artificial Intelligence and its Applications*.

ANA RUSU, Royal Institute of Technology (KTH), Stockholm, Sweden, *Future Smart Connected Society Enabled by Electronics*.

(6th of November, 2018)

2 p.m. **Official opening** of the event with **welcome addresses**. **Academician Ioan Dumitrache**, Secretary General, on behalf of the Presidium of the Romanian Academy and **Academician Nicolae Zamfir**, President of the Section of Physics of the Romanian Academy, on behalf of ELI (Extreme Light Infrastructure), Măgurele, Romania.

2.20 p.m. – 4 p.m. **Round table** on **Strategic perspectives on Romanian micro-/nanoelectronics as Romania chairs the Council of the EU** attended by high-level representatives of companies active in Romania and other representative organisations. The debate will be moderated by Dr. Andreas Wild (former Executive Director of ENIAC/ECSEL, the European public-private partnership in nanoelectronics).

Forum II (7th of November, 2018)

Aula of the Library of the Romanian Academy

Session 8.30 a.m.-10.30 a.m. Chair DAN DASCALU

MIHAI MIHAILA, IMT Bucharest, Romania, *Microscopic origin of 1/f noise..*

SORIN MELINTE, Université catholique de Louvain, Belgium, *Nanoarchitectonics with Si nanowires.*

MIRCEA DRAGOMAN, IMT Bucharest, Romania, *Nanoelectronics at the atomic scale: computing, harvesting, networking.*

SORIN CRISTOLOVEANU, MINATEC, Grenoble, Franța, *The growing family of electrostatically-doped devices.*

GHEORGHE BREZEANU, University Politehnica of Bucharest, Romania, *Silicon Carbide for Sensing: a continuous challenge.*

CORNEL COBIANU, IMT Bucharest, Romania, *From thin films to nanosensor technology.*

European Excellence in Nanotechnology (EXCELNANO)

Romanian Academy, Bucharest, 6-7 November 2018

A event dedicated to the Centenary of the Romanian State (1918-2018)

and to the Romanian Presidency of the European Council (first semester, 2019)

(www.romnet.net/EXCELNANO for full information)

EXCELNANO is also including **SNN 2018** (7th of November, 2018),

the **17th edition** (focussed on European cooperation),

of the **National Seminar on Nanoscience and Nanotechnology**, www.romnet.net/nano/SNN2018



ORGANIZERS

European Excellence in Nanotechnology (EXCELNANO), Romanian Academy, Bucharest, 6-7 November 2018 is a combined event organized by the *Romanian Academy, Commission for Science and Technology of Microsystems*, www.lik2nano.ro/acad/STMS (Acad. Dan Dascălu) in partnership with the *National Research and Development Institute for Microtechnologies (IMT Bucharest)*, Ministry for Research and Innovation, www.imt.ro

Media partners: Market Watch and Romanian Radio (Cultural branch).



Press Conference and Launching of the volume *Advances in Micro- and Nanotechnologies* (No. 27 in the *Micro- and Nanoengineering* series, Publishing House of the Romanian Academy) – 6th of November 2018, 1.30 p.m., Hall of the Presidium, Romanian Academy (by invitation, only)