

Scope

The INFOS conference is a prestigious biennial event which brings together electrical engineers, technologists, materials scientists, device physicists and chemists from Europe and around the world to debate the newest developments on thin insulating films on semiconductors and identify the challenges ahead in this highly diversifying field. The first day will be devoted to tutorials.

Conference topics

- High-k dielectrics, metal gate materials and SiO₂ for future scaling
- Gate stack materials for high mobility substrates (e.g. Ge, SiGe, InGaAs)
- Materials for non-volatile memories: flash, PCM, RRAM, MRAM
- Dielectrics for MIM and DRAM
- Low-k dielectrics
- 2D materials, nanowires and relevant dielectrics
- Materials for steep slope devices (e.g. tunnel FETs)
- Materials for neuromorphic computing
- Physics and chemistry of dielectrics and defects
- Modelling of atomic and electronic structure of insulators, interfaces and thin films
- Characterization techniques for dielectrics and interfaces
- Electrical reliability, leakage and related modelling
- Surface cleaning technologies
- Ferroelectrics and functional oxides
- Dielectrics on wide bandgap semiconductors (e.g. GaN, SiC) for power devices
- Dielectrics and thin film materials for TFTs, amorphous or organic devices and photovoltaics
- Dielectrics for photonics and sensing
- Materials for biomedical micro/nano devices

Technical Program Committee

M.A. Alam, Purdue University (USA)
T. Ando, IBM (USA)
C. Dubourdieu, Helmholtz Zentrum Berlin (Germany)
J. Franco, imec (Belgium)
F. Gamiz, University of Granada (Spain)
P. Hurley, Tyndall National Institute (Ireland)
D. Ielmini, Politecnico di Milano (Italy)
H. Iwai, University of Tokyo (Japan)

Steering Committee

V. Afanasiev - University of Leuven (Belgium)
S. Cristoloveanu - IMEP (France)
A. Dimoulas - NCSR Demokritos (Greece)
B. Majkusiak - Warsaw University of Technology (Poland)
J. Robertson - University of Cambridge (Great Britain)
L. Selmi – University of Modena and Reggio Emilia (Italy)

4-page versions of all accepted abstracts will be published in an open special issue of *Solid-State Electronics* “Letters from Insulating Films on Semiconductors 2021”. Authors of selected accepted INFOS2021 papers will be invited to submit full-length (7-10 pages) papers which will be published in another special issue of *Solid-State Electronics* “Selected papers from Insulating Films on Semiconductors 2021”.

The **Best Student Paper Award** will be delivered at the end of the conference.

Submission deadlines

2-page camera ready abstracts:
February 1, 2021 (23:59 Pacific Time)

4-page papers for the SSE special issue:
April 9, 2021 (23:59 Pacific Time)

website: <http://events.dimes.unical.it/infos2021>

email: infos2021@dimes.unical.it

H.D. Kim, Sejong University (Korea)
K. Kita, University of Tokyo (Japan)
C. Leroux, CEA-LETI Grenoble (France)
M. Nafria, Universitat Autònoma de Barcelona (Spain)
L. Pantisano, Global Foundries (USA)
K. L. Pey, SUTD (Singapore)
S. Slesazek, NamLab (Germany)

Local Organizing Committee

F. Crupi (General Chair) - University of Calabria
M. Lanuzza - University of Calabria
R. De Rose - University of Calabria

