

Collaboration between Northern and Southern organizations with the aim to facilitate and analyze the impact of the technologies on the society

IngénieuxSud – a collaborative initiative between Northern and Southern organizations for helping scientists to raise questions about the impact of the technologies on the society

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Higher education is the time for many students to focus on the complex functioning of our society and to reflect on social inequalities and environmental issues it generates. In science and technology, initiatives are emerging to integrate these questions to training. Many universities and colleges are motivated to develop the teaching of social and environmental complexity linked to the technical choices, to develop critical thinking with students against models of society conveyed by technology... We are talking about scientific citizenship, ethics applied to engineering, socio-technical integration, political technology assessment, ...

Higher education is fully active in sustainable development and can help to promote more equitable and sustainable societies in forming the European civil society of tomorrow with alliances and synergies.

The purpose of this seminar is to share current practices for developing a civic education of science and technology to students. The reflection will also focus on possible partnerships between NGOs and universities to introduce the themes of sustainable development and social issues in the curriculum, the role of the multidisciplinary and the need to address issues with a multi-stakeholder approach. With the objective to strengthen partnerships and to demonstrate that scientific citizenship is an inseparable element of a European active, aware and informed citizenship multiple causalities of the human development process.

Jean-Pierre RASKIN (IEEE M'97, IEEE SM'06, IEEE F'14) was born in Aye, Belgium, in 1971. He received the Industrial Engineer degree from the Institut Supérieur Industriel d'Arlon, Belgium, in 1993, and the M.S. and Ph.D. degrees in Applied Sciences from the Université catholique de Louvain (UCL), Louvain-la-Neuve, Belgium, in 1994 and 1997, respectively. From 1994 to 1997, he was a Research Engineer at the Microwave Laboratory, UCL, Belgium. He worked on the modeling, characterization and fabrication of MMIC's in Silicon-on-Insulator (SOI) technology for low-power, low-voltage applications. In 1998, he joined the EECS Department of The University of Michigan, Ann Arbor, USA. He has been involved in the development and characterization of micromachining fabrication techniques for microwave and millimeter-wave circuits and microelectromechanical transducers/amplifiers working in harsh environments. In 2000, he joined the Microwave Laboratory of UCL, Louvain-la-Neuve, Belgium, as Associate Professor, and he has been a Full Professor since 2007. From September 2009 to September 2010, he was visiting professor at Newcastle University, Newcastle Upon Tyne, UK. Since 2014 he has been the head of the Electrical Engineering Department of UCL.

His research interests are the modeling, wideband characterization and fabrication of advanced SOI MOSFETs as well as micro and nanofabrication of MEMS / NEMS sensors and actuators, including the extraction of intrinsic material properties at nanometer scale.

He is IEEE Fellow, EuMA Associate Member, Société de l'électricité, de l'électronique et des technologies de l'information et de la communication (SEE) Member, and Material Research Society (MRS) Member. He was the recipient of the Médaille BLONDEL 2015, famous French reward that honors each year a researcher for outstanding advances in science which have demonstrated a major

impact in the electrical and electronics industry. He received the SOI Consortium Award in 2016 in recognition in his vision and pioneering work for RF SOI. He is author or co-author of more than 500 scientific articles.