

SEMICON® EUROPA

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ITF Beyond 5G

Opening



M. Peeters
VP of R&D for Connectivity
imec, Brussels, Belgium



Abstract

Coming Soon

Biography

Michael Peeters is VP of R&D for Connectivity at imec. His previous experience as CTO for both the Wireline and Wireless business lines at (what is now) Nokia was built on the culture, enthusiasm, and love for technology and science that he got from his time at Bell Labs—and the principles of Free Inquiry bestowed on him by his Alma Mater, the Vrije Universiteit Brussel (VUB).

During his research career starting with a Ph.D. in Applied Physics and Photonics from the Vrije Universiteit Brussel, he has authored more than 100 peer-reviewed publications, many white papers and holds patents in the access and photonics domains. An electrotechnical engineer by training, he is a senior member of IEEE and a Fellow of the VUB.

Outside of work, his quest to discover the recipe for a perfect lasagna is balanced by bouts of long-distance running to offset the inherent caloric intake.

Industry talk



C. Maleville
CTO, Executive VP Innovation Organization
Soitec, Bernec, France



Abstract

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Biography

Christophe Maleville has been appointed senior vice president of Soitec's Innovation.

He joined Soitec in 1993 and was a driving force behind the company's joint research activities with CEA-Leti. For several years, he led new SOI process development, oversaw SOI technology transfer from R&D to production, and managed customer certifications. He also served as vice president, SOI Products Platform at Soitec, working closely with key customers worldwide.

Maleville has authored or co-authored more than 30 papers and also holds some 30 patents. He has a PhD in microelectronics from Grenoble Institute of Technology and obtained an executive MBA from INSEAD.

Industry talk



G. U'Ren
Director RF Technologies X-FAB Group
X-fab, Dresden, Germany



Abstract

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Biography

Dr. Gregory U'Ren is the Director of RF Technologies at X-FAB responsible for incubating and subsequently delivering integrated device technology solutions including reference designs and foundational design IP. During his career, he has held both leadership and individual roles contributing to the advancement of a broad range of specialty technologies including SiGe BiCMOS, RF-SOI, MEMS, and GaN. Current activities are focused on the RF front end for 5G or 6G systems engaging various collaborations with academic and industrial partners on a wide range of topics including materials, process, RF/mmW characterization, advanced modeling, and EDA tooling enhancements to support several program initiatives at X-FAB.

He is a senior member of IEEE, a member of the American Physics Society, and holds over 30 patents. He completed his PhD and MS at the University of California Los Angeles.

Tech talk



N. Collaert
Program Director High-Speed Analog/RF
imec, Brussels, Belgium



Abstract

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Biography

Dr. Nadine Collaert is program director at imec. She is currently responsible for the analog/RF program looking at heterogeneous integration of III-V/III-N devices with advanced CMOS to tackle the challenges of next generation mobile communication. Before that she was program director of the LOGIC Beyond Si program focused on the research on novel CMOS devices and new material-enabled device and system approaches to increase functionality. She has been involved in the theory, design, and technology of FinFET devices, emerging memories, transducers for biomedical applications and the integration and characterization of biocompatible materials. She has a PhD in electrical engineering from the KU Leuven and she holds more than 400 publications and more than 10 patents in the field of device design and process technology.

Industry talk

F. Tillman
Head of Integrated Radio Systems
Ericsson Research, Brussels, Denmark



ERICSSON

Abstract

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Biography

Fredrik Tillman received the Msc and PhD degrees in Circuit Design from Lund University in 2000 and 2005 respectively. After graduation he joined Ericsson Mobile Platforms and participated in the first cellular modem CMOS radio development before moving on to the research branch of the company. Today Fredrik is heading a department at Ericsson Research with focus on integrated radio circuit design for both cellular infrastructure and device connectivity. Besides being responsible for internal R&D activities, Fredrik is active in the European research community and has been the Ericsson driver for multiple collaboration projects within the Horizon 2020 framework.