



Professor Paul-Alain ROLLAND

Paul-Alain ROLLAND received an engineer diploma from ISEN (Lille France) in 1971 then a PhD and a These d'Etat degrees from the University of Lille in 1973 and 1978 respectively. He became Assistant Professor at the University Lille 1 in 1973 and was currently Professor at this university from 1985 to 2011. He retired end 2011 and he is now Emeritus Professor. In 1971 he joined the Centre Hyperfrequence et Semiconducteur (CHS University Lille1) and from 1971 to 1992 he worked on millimeter wave two terminal devices and on X band Heterojunction Bipolar Transistors for radar power modules in close connexion with Thomson. He was one of the first to propose in 1976 the concept of harmonic balance to study highly non linear circuits while working on high rank avalanche diode frequency multipliers. He spent 2 years (1985-1987) at Thomson to develop w band CW Si IMPATT diode and InP Gunn diode oscillators and high power pulsed IMPATT oscillators in the framework of a NATO programme dealing with 94 GHz self driving missiles.

In 1992 the CHS became the major department of the new institute IEMN (Institute for Electronics Microelectronics and Nanotechnology) and Paul-Alain ROLLAND was head of this department from 1996 to 2010. He moved his research activity from devices to systems and subsystems in the field of communication and radars and participated to numerous European programs DRIVE, RACE, ACTS, ESPRIT ...).

From 1996 to 2002 he was expert for the EC in the framework of the ESPRIT program for projects dealing with automotive safety.

From 1993 to 1998 he was scientific consultant for the French MoD in the framework of the European projects IEPG-RFP7 and RFP8 dealing with Xband power modules for beam steering radars.

In 2005 he became head of a pluridisciplinary Institute IRCICA (120 searchers), the activity of which is devoted to advanced communication and wireless sensor networks merging hardware and software competences and technical platforms. In the framework of this new institute he launched of novel activity concerning microsources of energy (storage and energy scavenging) for autonomous WSN or smart microsystems which was labelled in 2011 by the French network of excellence on electrochemical energy storage(RS2E Prof.TARASCON).

From 1995 to 2000 he was member of the national scientific research council (Co CNRS) and chair of the micro opto-electronic section of this council from 2000 to 2004.

Paul-Alain ROLLAND was member of numerous EuMC TPCs and member of the organization committee of the first EuMW in Amsterdam in 1998. He was member of the EuMA Board of Directors from 2003 to 2009 and Chair of the EuMA Award Committee (Oct.2008 – Oct.2009).

Paul-Alain ROLLAND is author or co-author of more than 160 technical papers mostly on millimeter wave devices and subsystems. He was active in the field of microwave in France as a member of the TPCs of the French microwave national days, JNM, 3 days every 2 years from 1990 to 2006 and chair of the JNM 2003 in Lille.