SHORT COURSE EuCAP 2014, The Hague, THE NETHERLANDS

Course Title: Propagation and channel modelling for beyond 4G cellular networks

Claude Oestges received the MS degree in Electrical Engineering and the PhD degree in Applied Science from the Université catholique de Louvain (UCL), Louvain-la-Neuve, Belgium, respectively in 1996 and 2000. From January to December 2001, he joined, as a post-doctoral scholar, the Smart Antennas Research Group (Information Systems Laboratory) of Stanford University, CA, USA. From October 2001 to September 2005, he was a post-doctoral fellow of the Belgian National Science Foundation (FRS) associated with the Microwave Laboratory UCL. He is presently Associate Professor at UCL and FRS Senior Research Associate affiliated with the Institute for Information and Communication Technology, Electronics and Applied Mathematics (UCL-ICTEAM). His research interests cover wireless and satellite communications, with a specific focus on propagation and propagation-related signal processing. He has taken part in the European COST Action 255, 273 and 2100, and is currently chairing the radio Channel Working Group within COST IC1004 Action. Claude Oestges received the 1999-2000 IEE Marconi Premium Award and the IEEE Vehicular Technology Society Neal Shepherd Award in 2004 and 2012. Claude Oestges is the co-author of two books (*MIMO Wireless Communications*, Academic Press, 2007; *MIMO Wireless Networks*, Academic Press, 2012), the co-editor of one book (*MIMO*, Academic Press, 2011) and the author of more than 150 research papers and communications in international journals and conferences. He currently serves as an Associate Editor for the IEEE Transactions on Vehicular Technology, the IEEE Transactions on Antennas and Propagation and the EURASIP Journal on Wireless Communications and Networking.

Thomas Kürner received his Dipl.-Ing. degree in Electrical Engineering in 1990, and his Dr.-Ing. degree in 1993, both from Universität Karlsruhe (Germany). From 1990 to 1994 he was with the Institut für Höchstfrequenztechnik und Elektronik (IHE) at the University of Karlsruhe working on wave propagation modelling, radio channel characterisation and radio network planning. From 1994 to 2003, he was team manager radio network planning support within the radio network planning department at the headquarters of the GSM 1800 and UMTS operator E-Plus Mobilfunk GmbH &Co KG, Düsseldorf. He was responsible for radio network planning tools, algorithms, processes and parameters. Since 2003 he is Professor for Mobile Radio Systems at the TU Braunschweig. His working areas are propagation, traffic and mobility models for automatic planning of mobile radio networks, self-organization of cellular networks, car-to-x communications as well as indoor channel characterisation for high-speed short-range systems including future terahertz communication systems and accuracy of satellite navigation systems. He has been engaged in several international bodies such as ITU-R SG 3, UMTS Forum Spectrum Aspects Group, COST 231/ 273/ 259/2100/IC1004. He participated in the European projects FP5-IST-MOMENTUM on methods for “Automatic Planning of large-scale Radio Networks”, ICT-FP7-SOCRATES on “Self-Organisation in Wireless Networks”, FP7-SME-GreenNets on “Power consumption and CO2 footprint reduction in mobile networks by advanced automated network management approaches” and FP7-ICT-Semafour “Self-Management for Unified Heterogeneous Radio Access Networks”. Currently he chairs the IEEE802.15 SG 100G (100 Gbit/s Wireless) and the WG Propagation of the European Association on Antennas and Propagation. He has served as Vice-Chair Propagation at the European Conference on Antennas and Propagation (EuCAP) in 2007, 2009 and 2014 and at the Vehicular Technology Conference (VTC) Fall 2010. He is one of the initiators and co-organizers of the yearly organized International Workshop on Self-Organizing Networks (IWSON). Since 2008 he is Associate Editor of IEEE Transactions on Vehicular Technology. In 2012 he was a guest lecturer at Dublin City University giving a course on Propagation and Channel Modelling.