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Dr. Damir Ilić: CURRICULUM VITAE

DAMIR ILIĆ was born on June 12, 1965 in Zagreb, Croatia, where he is still living. He finished the primary school in 1980, and the following four years he attended the Technical school; in 1984 he took his diploma in the field of Automatics. Since the four years of his schooling were excellent, he did not have to write his paper and take the final examination. By the end of 1985 he served the army in the former Yugoslavia.

He enrolled the study of Electrical Engineering at the Zagreb University in the academic year 1985/86 at the Electrotechnical Faculty (ETF), which in 1995 changed its name into *Faculty of Electrical Engineering and Computing* (FER, http://www.fer.hr/). He finished the study of the duration of nine semesters in the field of *Industrial Electronics* and graduated with flying colours on July 11, 1990. His diploma work elaborated the topic "Automatic checking of distant protection by checking devices controlled by computer". In 1991 he enrolled the postgraduate study at FER in the field of *Electrical Measurements and Measurement Techniques*, and defended his M.Sc. work under the title "Contribution to the determination of the unit volt and its maintenance by standards" on December 28, 1994. For that work he was awarded by "Silver Plaque Josip Lončar" as a very remarkable work, assigned by FER. A few following years he attended a Ph.D. study at the same faculty and finally defended his doctoral thesis under the title "Use of digital measuring instruments in maintenance of standards" on December 21, 1999.

He started to work at the Department of Electrical Engineering Fundamentals and Measurements at FER in 1991 as a young researcher on the project *Primary Electromagnetic Laboratory*, financed by the Ministry of Science and Technology of the Republic of Croatia. Since the academic year 1991/92, he has been involved in laboratory exercises of the subject *Measurements in Electrotechnics* (MUE) – attended on the second year of studies at FER – and since 1995/96, lecturing the introductory lessons. In 1995 he took the assistant position for the same subject, and in 2000 became the senior assistant, lecturing all lessons. Since 2002 he has been working as the assistant professor on the same cathedra. On the undergraduate study at FER he is also involved in lectures and laboratory exercises of the subject *Process Measurements*, and on the postgraduate study at the same faculty on the subjects *Laboratory Measurement Methods* and *Influence Quantities at Measurements*.

Tutored by Prof. Vojislav Bego and Prof. Josip Butorac he worked on researches regarding the Voltage Balance ETF-84 (primary standard of dc voltage) on measurement of the vertical displacement of high-voltage electrodes at the nanometre level of uncertainty, on the development of the electronic level indicator for measuring very small angles (microradian range), as well as on the method for monitoring stability of the kilogram (unit of mass) by means of the same balance. Later on he worked on precise measuring methods for comparing voltage and resistance standards and on the development of oil ulthrathermostat controlled by a computer for the maintenance of resistor standards. In the last period he has been working on the use of high-quality digital measuring instruments in the method of measurements controlled by a

computer, especially to establish a connection between the capacitance and resistance standards at the highest accuracy. For this reason the experimental work is oriented to the measurement of the RMS value and phase differences of ac voltages at low frequencies by means of the high-resolution digital voltmeters. These methods enable the measurement of the voltage ratios, too, and have further possibilities of implementation in the measurement of impedances, as well as of power and energy. Following these investigations, he spent four months during the 1998 at the German national laboratory *Physikalisch-Technische Bundesanstalt* (PTB) in Braunschweig, in the frame of the short-term scholarship given by Deutscher Akademischer Austauschdienst (DAAD). He published many scientific papers in the Proceedings of different conferences and a few in the IEEE Trans. on Instrumentation and Measurements. He was awarded with the "Young Scientist Support" on the Conference on Precision Electromagnetic Measurements in 1998 for the paper V. Bego, J. Butorac, D. Ilić: *Realisation of Croatian electromagnetic prototype of the Kilogram*, CPEM '98 Digest, pp. 627-628, Washington D.C., July 6-10, 1998. At the XVI IMEKO World Congress, which was held in Vienna (September 25-28, 2000), he received "György Striker Junior Paper Award" for the paper D. Ilić, J. Butorac: *Measurement of AC voltages with digital voltmeters*, Proc., vol. X, pp. 185-190.

Since the beginning of his employment he has participated in the establishment and work of the *Primary Electromagnetic Laboratory* (PEL) of the Republic of Croatia (a part of FER), in the field of electric and magnetic quantities (voltage, current, resistance, capacity, frequency, VF techniques). This work includes study elaboration and documentation, including device calibration of the highest measuring quality – such as voltage standards, dc and ac calibrators, high-level digital measuring instruments and ac-dc thermal transfer standards. He is a principal investigator – junior researcher on the project *High-Precision Measurement by means of Digital Voltmeters*, financed by the Ministry of Science and Technology of the Republic of Croatia.

Dr. Ilić is a member of the *Croatian Metrology Society* (HMD, http://www.hmd.hr) and a member of the Editorial Board of *Mjeriteljski vjesnik* (journal published by HMD in Croatian language). He is also a member of the *Croatian Society for Communications, Computing, Electronics, Measurement and Control* (KoREMA, http://www.rasip.fer.hr/resource/korema), as well as of the *IEEE Instrumentation and Measurement Society*. He was a member of the National Organizing Committee of the 18th Metrology Symposium (Cavtat, Croatia, October 8-10, 2001), and of the 12th IMEKO TC4 International Symposium (Zagreb, Croatia, September 25-27, 2002). He was a member of the National Programme Committee of the XVII IMEKO World Congress (Dubrovnik, Croatia, June 22-27, 2003). He was an editor of the Proceedings for all of three mentioned conferences.

He fluently speaks English and study German, too. He is married and a father of two children, he likes sports (especially tennis and skiing) and music (classic and rock), and enjoys in travelling.

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