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# Advances in Mathematical Models and Production Systems in Engineering

- Proceedings of the 7<sup>th</sup> International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '14)
- Proceedings of the 5<sup>th</sup> International Conference on Mathematical Models for Engineering Science (MMES '14)

Brasov, Romania, June 26-28, 2014.

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## Plenary Lecture 1

### New Product Development, Multi-BOARD – From Idea to Prototype



**Professor Mihaiela Iliescu**  
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**Abstract:** There is the opportunity of new product development when a customer need, or market opportunity are estimated and, consequently sales and profit are expected. The steps followed in order to get from idea generation to prototype demonstration are evidenced. Aspects of strategic marketing, project management, as long as manufacturing of main component elements are evidenced by this lecture so, that, finally, a demonstration of how does the Multi-BOARD prototype work is offered.

**Brief Biography of the Speaker:** Graduated in 1989, "POLITEHNICA" Institute of Bucharest, ROMANIA. 1989 – 1991 worked as engineer – in the Design Department of Romanian Peripheral Equipment Factory, FEPER 1991 - 2013 worked in "POLITEHNICA" University of Bucharest, ROMANIA – Manufacturing Department, graduating from Associate Assistant (1991), to Assistant (1993), Lecturer (1998) and Associate Professor (2004). The Doctoral Thesis, in 2000 was about "Quality and Machinability of Thermal Sprayed Layers".

Teached courses, advised students research and worked into the fields of: Applied Statistics in Engineering; Manufacturing Technologies; Injection Moulding; Customized Products Manufacturing and Quality Assurance. Since 2013, has been working in a private company, innovative SME, SC OPTOELECTRONICA-2001 SA. Coordinates the research activity of this company, focused on EEA Grants, ERA-NET (FP7) and, specially, H 2020 Programmes.

Scientific researcher and project manager, in about 30 Research Projects and Grants. Also, expert evaluator for EU programs on human resources development First-author or, co-author, of about

- 140 studies and papers - published in International/National Conferences, Sessions, Workshops, Platform Meetings etc;

- 14 books on Applied Statistics, Manufacturing Technology, Geometrical Precision Inspection.

Member of some professional associations, as Plastics Industry Producers Association – ASPAPLAST, ROMANIA, Rapid Manufacturing Association – RAPIMAN; has some international awards as: Best Innovation Award - at Brussels INNOVA Fair, 2007, Golden Medal – in INVENTIKA –2008, Bucharest, Romania.

Performed organizing activities for WSEAS Conferences in Bucharest, in June (2008 and 2010) and, specially, in November, 2008 – when was General Chairman.

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