



## Brief biographical note

**Professor Alexandru M. Morega** (M'90, SM'2007) was born in Bucharest, Romania, in 1955. He received the B.E. and M.S. degrees in electrical engineering from the University POLITEHNICA of Bucharest, Bucharest, Romania, in 1980, the Doctoral degree in Electrical Engineering from the University POLITEHNICA of Bucharest, in 1987, and the Doctor of Philosophy degree in Mechanical Engineering from Duke University of Durham, North Carolina, USA, in 1993.

In 1983, he joined the Faculty of Electrical Engineering, University POLITEHNICA of Bucharest, as an Assistant Professor, and in 1998 he became Professor. He was Associate Professor at the Department of Mechanical Engineering, Yamaguchi University, Tokiwadai, Ube, Japan, in 1995-96. He is the head of the Chair of Electric Machines, Materials and Drives, the Faculty of Electrical Engineering, University POLITEHNICA of Bucharest, and the Director of the Department of Bioengineering and Biotechnology. His current research interests include electromagnetism, heat and mass transfer, field-substance interactions, energy conversion and sources, multiphysics modeling. Prof. A. M. Morega is a senior researcher of "Gh. Mihoc – C. Iacob" Institute of Statistical Mathematics and Applied Mathematics, Bucharest, at the Romanian Academy. He is Member of the American Society of Mechanical Engineers (ASME, M'90), and Chair of the Romanian Chapter of the Engineering in Medicine and Biology Society, IEEE (IEEE-EMBS). <http://www.iem.pub.ro/~amm>

**Professional and scientific activity:** handbooks/textbooks (11); papers published in peer-refereed journals (70); papers published in the proceedings to international conferences (170); papers published in the proceedings to national conferences (30); member of the Editorial Board of Revue Roumaine des Sciences Techniques, Electrotechnique et Energetique; "Tudor Tănăsescu" prize of the Romanian Academy awarded in 2000.

**Name, salutation:** Alexandru M. Morega, Professor

**Current appointment:**

University Politehnica of Bucharest, Romania

Faculty of Electrical Engineering,

Chair of Electric Machines, Materials and Drives

Laboratory of Electrical Engineering in Medicine,

Laboratory of Multiphysics Modeling

Department of Bioengineering and Biotechnology,

"Gh. Mihoc – C. Iacob" Institute of Statistical Mathematics and Applied Mathematics, Bucharest, at the Romanian Academy

**Educational Background:**

- B.E. and M.S. degrees in Electrical Engineering from the University POLITEHNICA of Bucharest, Bucharest, Romania, in 1980
- Doctoral in Electrical Engineering, the University POLITEHNICA of Bucharest, in 1987
- Doctor of Philosophy in Mechanical Engineering, Duke University of Durham, North Carolina, USA, in 1993.

**Research interests:** include electromagnetism, heat and mass transfer, field-substance interactions, energy conversion and sources, multiphysics modeling.

**Title of your BIOMMEDD 2010 lecture:**

*Medical imaging reconstruction for numerical modeling in Biomedical applications.*

