

euro puss	T				
Curriculum vitae					
Personal information					
First name(s) / Surname(s)	Sebastian MUNTEAN				
Telephone(s)	(004)0256 40 3692; 3698				
Fax(es)	(004)0256 40 3692				
Web sites:	http://acad-tim.tm.edu.ro/cctfa				
E-mail	seby@acad-tim.tm.edu.ro sebastian.muntean@upt.ro				
Nationality	Romanian				
Marital status	Married				
Date of birth	September 15, 1970				
Gender	Male				
Present Activity					
Workplace / Occupational field	Romanian Academy-Timisoara, Center for Fundamental and Advanced Technical Research (CFATR); Hydrodynamics and Cavitation Laboratory, Bv. Mihai Viteazu, No. 24, Ro-300223, Timisoara, ROMANIA engineer, senior researcher – 1st degree				
Key Words	turbomachinery hydrodynamics, cavitation, flow control, computational fluid dynamics, magneto-rheological devices, numerical methods, parallel computing, fluid mechanics				
Domains of competence	efficiency and cavitational behavior of the hydraulic machines unsteady phenomena associated to the full operating range				
Domains of interest	hydraulic turbomachinery hydrodynamics flow control of the hydraulic machines				
Education					

	 2002 Ph.D. in Mechanical Engineering with Magna cum Laude / "Politehnica"				
Postgraduate Education	July 25 – 29, 2005 / International Center for Mechanical Sciences (CISM), Udine, Italy / International advanced course on <i>Fluid Dynamics of Cavitation and Cavitating Turbopumps</i> October 31 – November 2, 2001 / Tensor Srl., Engineering Software, Bucharest, Romania / <i>GAMBIT & FIDAP Training Courses</i> January 25 – 26, 1999 / Enervac – Flutec Ltd., Software & Services for Design and Development, Thessaloniki, Greece / <i>GAMBIT & FLUENT Training Courses</i> September 23 – 27, 1996 / École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland / Computation in Sciences Methods and Algorithms on Supercomputing for Engineering (COSMASE): Grid Generation and Parallel Computing				
Invited Researcher	January 25 – March 31, 2005 / University of Stuttgart, Institute of Fluid Mechanics and Hydraulic Machinery Project title: High Performance Computing for 3D Unsteady Swirling Flow Simulation in Draft Tube, HPC-Europa Project No. 506079 Advisor: Dr. Albert Ruprecht, Head of Fluid Mechanics Group				
Management Training	 March 11 – 12, 2009 / European Association of Research Managers and Administrators (EARMA) / Helmholtz Office, Brussels, Belgium / Training Course on "Intellectual Property Rights and Contract Management", Lecturer: Susanne Burnett June 26 – 27, 2008 / European Association of Research Managers and Administrators (EARMA) / Helmholtz Office, Brussels, Belgium / Training Course on "Effective Negotiations", Lecturer: Kenneth Taylor April 28 – 29, 2008 / European Association of Research Managers and Administrators (EARMA)/ Helmholtz Office, Brussels, Belgium / Training Course on "Advanced International Project Management", Lecturer: Susanne Burnett March 28 – 29, 2008 / European Association of Research Managers and Administrators (EARMA) / Helmholtz Office, Brussels, Belgium / Training Course on "Leadership: Managing and Motivating Teams", Lecturer: Kenneth Taylor July 12, 2007 / Romanian Ministry of Industry and Business Timisoara Chamber of Business and Industry, Romania / Training Course on "How to write a FP7 Proposal Successfully", Lecturer: Sean McCarty May 21-22, 2007 / European Association of Research Managers and Administrators (EARMA) / Helmholtz Office, Brussels, Belgium / Training Course on "Financial Management in EU Projects", Lecturer: Paul Drath 				

	April 16, 2007 / European Association of Research Managers and Administrators (EARMA) / Helmholtz Office, Brussels, Belgium / Training Course on "FP7 Agreements", Lecturers: Lotte Jaspers, Jet van Dijk, Margot Spaargaren March 20-23, 2007 / Romanian Ministry of Economy and Finance, Timisoara Chamber of Business and Industry, Romania / Training Course on "Horizontal Training for Structural Instruments", Lecturer Team Leader: Dr. Dimitra Ioannou May 16, 2006 / European Association of Research Managers and Administrators (EARMA) / Forschungszentrum Karlsruhe, Germany / Training Course on "Risk Management in Projects", Lecturer: Prof.dr. Bernd J. Madauss May 15, 2006 / European Association of Research Managers and Administrators (EARMA) / Forschungszentrum Karlsruhe, Germany / Training Course on "Coordination of Complex Projects", Lecturer: Prof.dr. Bernd J. Madauss
Work experience	
Dates / Occupation or last position held/ Name of employer	 Since 2001 / Senior Researcher/ Numerical Simulation and Parallel Computing Laboratory, "Politehnica" University of Timişoara, National Center for Engineering of Systems with Complex Fluids, Numerical Simulation and Parallel Computing Laboratory, Timisoara, Romania Since 2008 / Senior Researcher I / Romanian Academy – Timisoara Branch, Center of Advanced Research in Engineering Sciences, Hydrodynamics and
Management experience	
Dates / Position / Name of employer	 Since 2015 / Member/ Energy, Environment and Climate Change Commission of the Advisory Council for Research, Development and Innovation (CCCDI) 2012 - 2014 / Member / National Council of Higher Education, Statistics and Forecast (CNSPIS) 2009 - 2011 / Member / Mechanical Engineering Commission of the National Council of the Higher Education's Scientific Research (CNCSIS) Since 2012 / Scientific Secretary / Center of Advanced Research in Engineering Sciences, Romanian Academy – Timisoara Branch Since 2010 / Legal Entity Appointment Representative (LEAR) / Romanian Academy – Timisoara Branch at the European Commission Since 2002 / Head of Numerical Simulation and Parallel Computing Laboratory, "Politehnica" University of Timişoara, National Center for Engineering of Systems with Complex Fluids, Numerical Simulation and Parallel Computing Laboratory, Timisoara, Romania
Professional affiliations	Romanian Magnetic Liquids Association European Association of Research Managers and Administrators (EARMA) Romanian Coalition for Education in Engineering

Books

- **Muntean S.**, *Numerical Analysis Fluid Flow in Hydraulic Francis Turbines*, Orizonturi Universitare Publishing House, (380 p.), ISBN 978-973-638-355-7, 2008. (in Romanian)
- Resiga R., **Muntean S.**, Bernad S., Balint D., Balint I., *Modern Methods for Parallel Computing in Fluid Flow Simulation*. Orizonturi Universitare Publishing House, (296 p.), 2003. ISBN 973-638-064-5, (in Romanian)
- Anton L., Balint D., Baya A., Badarau R., Bej A., Milos T., Muntean S., Resiga R., Stuparu A., Fluid Mechanics, Hydraulic Machinery and Hydraulic systems. Aplications", Orizonturi Universitare, Timişoara Publishing House 2004. ISBN 978-973-638-076-9

Member of the Editorial Board

- Susan-Resiga R., **Muntean S.**, Bernad S., (Eds.), Proceedings of the "25th IAHR Symposium on Hydraulic Machinery and Systems", Timisoara, 20-24 Sept. 2010, in Institute of Physics. Conference Series Earth and Environment Science, Issue 12, 2010. ISSN 1775-1315 (http://iopscience.iop.org/1755-1315/12/)
- Susan-Resiga R., Bernad S., **Muntean S.** (Eds.), Proceedings of the "2nd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Timisoara, 24-26 Oct. 2007, in Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, Issue 6, Tom 52(66), (244 pp.), 2007. ISSN 1224-6077
- Susan-Resiga R., Bernad S., **Muntean S.** (Eds.) Vortex Hydrodynamics and Applications, Eurostampa Publishing House, (600 pp.), 2, 2007. ISBN: 978-973-687-659-
- **Muntean S.**, Ruprecht A. (Eds.), Proceedings of the 3rd Romanian-German Workshop on Turbomachinery Hydrodynamics, Orizonturi Universitare Publishing House, (160 pp.), 2007. ISBN 978-973-638-329-8
- Bernad S., **Muntean S.**, Susan-Resiga R. (Eds.), Proceedings of the "3rd Workshop on Vortex Dominated Flows. Achievements and Open Problems", in Scientific Bulletin of the "Politehnica" University of Timisoara, Transactions on Mechanics, Issue 3, Tom 52(66), (158 pp.), ISSN 1224-6077, 2007.
- Bernad S., **Muntean S.**, Susan-Resiga R. (Eds.), Proceedings of the 2nd Workshop on Vortex Dominated Flows Achievements and Open Problems, in Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Special Issue, (196 pp.), ISSN 1224-6077, 2006.
- Bernad S., **Muntean S.**, Susan-Resiga R. (Eds.), Proceedings of the Workshop on Vortex Dominated Flows Achievements and Open Problems, in Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Special Issue, (214 pp.), ISSN 1224-6077, 2005.
- Susan-Resiga R., Bernad S., **Muntean S.**, Popoviciu M. (Eds.), Proceedings of the 6th International Conference on Hydraulic Machinery and Hydrodynamics, Scientific Bulletin of the 'Politehnica' University of Timisoara, Romania, Transactions on Mechanics, Tom 49(63), Special Issue, (740 pp.), ISSN 1224-6077, 2004.
- Anton I., Resiga R., Sofonea S., Bernad S., Muntean S., (Eds.) Proceedings of Workshop on Numerical Methods in Fluid Mechanics and FLUENT Applications, Orizonturi Universitare Publishing House, (312 pp.), ISBN 973-638-022-X, 2003.

Member of the Scientific Committee

- 8th International Conference on Energy and Environment (CIEM2017), 19-20 Octombre 2017, Bucharest, Romania.
- 19th International Seminar on Hydropower Plants, Flexible Operation of Hydropower Plant in the Energy System, 9-11 November 2016, Vienna, Austria.
- 7th International Conference on Energy and Environment (CIEM2015), 22-23 Octombre 2015, Jasy, Romania.
- 6th International Conference on Energy and Environment (CIEM2013), 7-8 Novembre 2013, Bucharest, Romania.

Member of the Organizing Committee	Conference "Diaspora in Scientific Research and Higher Education from Romania", Renewable Energy Workshop, 25-28 April 2016, Timisoara. 4th CREDING conference "Engineering education. The challenges for the XXI century", 14-15 May 2015, Timişoara. 9th German-Romanian Workshop on Turbomachinery Hydrodynamics, 16-18 July 2013, Timisoara. 7th German-Romanian Workshop on Turbomachinery Hydrodynamics, 26-28 May 2011, Timisoara. 25th IAHR Symposium on Hydraulic Machinery and Systems, 20-24 Septembre 2010, Timisoara. 5th German-Romanian Workshop on Turbomachinery Hydrodynamics, 2-4 July 2009, Timisoara. 2nd IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, 24-26 Octombre 2007, Timisoara. 3rd German-Romanian Workshop on Turbomachinery Hydrodynamics, 10-12 May 2007, Timisoara. 3rd Workshop on Vortex Dominated Flows. Achievements and Open Problems, 1 - 2 June 2007, Timisoara. 2nd Workshop on Vortex Dominated Flows Achievements and Open Problems, 30 June – 1 July 2006, Bucharest. 1st German-Romanian Workshop on Turbomachinery Hydrodynamics, 24-26 Noiembre 2005, Timisoara. 1st Workshop on Vortex Dominated Flows Achievements and Open Problems, 10-11 June 2005, Timisoara. 6th International Conference on Hydraulic Machinery and Hydrodynamics, 21-22 Octombre 2004, Timisoara. Workshop on Numerical Methods in Fluid Mechanics and FLUENT Applications, 22-23 Mai 2003, Timisoara. 8th International Conference on Magnetic Fluids (ICMF8), 29 June - 3 July 1998,					
Organizer	Timisoara. Numerical Methods in Fluid Dynamics and FLUENT applications, 18-23 September					
of the course	2006, Timisoara.					
Mother tongue(s)	Romanian					
Other language(s)	Self-assessment	Understanding	Speaking	Writing		
Language	English	Good	Good	Good		
Awards	 "Diploma of Merit for Outstanding Results in Scientific Research", prize awarded to the management team of the Research Center for Engineering of Systems with Complex Fluids, 2004 Academy for Technical Sciences of Romania – Timisoara Branch Award, "PhD Thesis of the year 2002", 2004. Timisoara Orizonturi Universitare Association Award for special results in the research activity, "Eminent Young Researcher", 2003. CASA Auto Timisoara Award for Excellent Results, "Ion Tiriac", 2003 					

Date: May 10, 2017 Sebastian Muntean, PhD