

FOROPA Expert Database on Biomass and Biomass Supply Chains

Name and Surname	Dr. Ananias G. Tomboulides	
Field of expertise	<ul style="list-style-type: none"> ▪ Computational Methods in Reactive Flows , Combustion, Energy Systems ▪ Development and implementation of advanced numerical methods for the simulation of reactive and non-reactive flows of fundamental as well as applied interest on parallel platforms; large-scale computing. ▪ Simulation and efficiency increase of conventional power generation from fossil and bio-fuels for emissions reduction. ▪ Parallel computing using MPI; programming, optimization and parallel scalability. 	
Recent employment	Chairman and Professor of the Department of Mechanical Engineering at the University of Western Macedonia.	
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Main references	<p>The main professional experience of Dr. Ananias G. Tomboulides, except his current position, is:</p> <ul style="list-style-type: none"> ▪ Senior research scientist, ETHZ, Zurich, Switzerland. Laboratory of Aerothermochemistry and Combustion Systems Institute of Energy Technology, Dept. of Mechanical Engineering (2000 – 2002) ▪ Assistant Professor, Boston University, Boston USA Department of Aerospace and Mechanical Engineering (1997 – 2000) ▪ Research scientist, ETHZ, Zurich, Switzerland Laboratory of Combustion Engines and Combustion Technology Institute of Energy Technology, Dept. of Mechanical Engineering (1995 – 1997) <p>His basic professional affiliations are:</p> <ul style="list-style-type: none"> ▪ Chairman of the Department of Mechanical Engineering UOWM (formerly Department of Engineering and Management of Energy Resources) since 1-9-2006 ▪ Vice-Chairman of the Dept. of Engineering and Management of Energy Resources (UOWM) 1-9-2004 to 31-8-2006 ▪ Committee head for the University Network Operation Center (UOWM) since 1-3-2004 <p>Furthermore, Dr Ananias Tomboulides has been participated in many national and international projects such as the SynEnergeia - Advanced measures for the optimization of the operation of lignite power plants for the reduction of CO2 emissions and BIOCLUS (FP7/ Regions of Knowledge, 2009-2012) - Developing research and innovation environment in the field of sustainable use of biomass resources.</p>	