


Event:  
Date:  
Place:

**ENERGY in BUILDINGS 2018**  
Saturday November 3, 2018  
Athens, Hellas



#	<b>Prof. Dr.-Ing. CONSTANTINOS SOURKOUNIS</b>  (German Diploma in Mechanical Engineering, main field Power Engineering)	
Title:	Head of Power Systems Technology at the Faculty of Electrical Engineering and Information Technology Ruhr-University Bochum, Germany	
email:	office@enesys.rub.de	•
Presentationtitle:	<b>Control and Monitoring System for High Energy and Cost Efficiency</b>	
<p>This presentation will give a general overview of the TESSe2b system and it will present the different modes of operation for space heating, cooling and domestic hot water provision in residential buildings. The main focus will be the control and monitoring system of the TESSe2b solution including the selection of sensors and actuators for the demonstration houses and the data acquisition process for remote monitoring. Furthermore, optimization techniques will be discussed for increasing energy and cost efficiency of the whole system using different techniques such as variable-flow operation, state-of-charge estimation of PCM storage and adaptive self-learning.</p>		
CV:		
<p><b>Prof. Dr.-Ing Constantinos Sourkounis</b> (IEEE member) studied mechanical engineering at the TU Clausthal, Germany and received his Dipl.-Ing and his Dr.-Ing degrees from the TU Clausthal in 1989 and 1994 respectively. After he received his Ph. D. at the Institute of Electrical Power Engineering at the TU Clausthal, he occupied the position of the chief engineer. In 2003 he received his habilitation. Since 2003 he is professor at the Ruhr-University Bochum, heading the Power System Technology Research Institute. Since 2013 he is the Chairman of the Advisory Council of the "Energy Efficiency Center Bochum" and Member of the board of Trustees of the Fraunhofer Institute for Wind Energy and Power Systems Technology (Fraunhofer IWES). In 2017 he was appointed Goup leader of the working group "Flexibilisation of the Energy System" as part of the "Energy Research Network of Power Supply Systems" of the German Federal Ministry for Economic Affairs and Energy (BMWi). His main research areas are mechatronic drive systems, renewable energy sources, decentralized energy systems supplied by renewable energy sources, energy supply systems for transportation systems and energy storage systems for renewable applications.</p>		

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**Study and Research Activities:**

since 2003	Professorship of Power Systems Technology at the Faculty of Electrical Engineering and Information Technology, Ruhr-University Bochum
1999-2003	Administration of the research group for Drive Engineering as Senior Engineer at the institute for Electrical Power Engineering, TU Clausthal
1994-1999	Head of the research group AMOEVES (Autonomous Modular Power Supply Systems) and responsible for the IEE sub-project from the project A18 "Increase of availability and occupancy rate for shredder facilities" by SFB 180, TU Clausthal
1994	Ph. D. with the subject: Wind power converter with maximum energy yield at under-performing mains
1989-1998	Research Assistant at the institute for Electrical Power Engineering, TU Clausthal
1989	German Diploma in Mechanical Engineering, main field Power Engineering in Mechanical Engineering, TU Clausthal

**Collegiate and other Activities:**

since 2017	Group leader of the work group "Flexibilisation of the Energy System" as part of the "Energy Research Network - Power Supply Systems" (BMW I)
since 2013	Member of the board of Trustees of the Fraunhofer Institute for Wind Energy and Power Systems Technology (Fraunhofer IWES)
since 2013	Chairman of the Advisory Council of the "Energy Efficiency Center Bochum"
since 2013	Reviewer for IET Renewable Power Generation
2011/2012	Member of the international Jury for the Austrian Research and Technology Programme "New Energies 2020" as well as "e-Mission" of the Austrian Research Promotion Agency (FFG)
since 2014 2006-2008	Member of the Faculty Council of the Faculty of Electrical Engineering and Information Technology of the Ruhr-University Bochum
2009-2015	Member of the Board of the NRW Research School "Energy Efficient Production and Logistics" (MIWF NRW)
2009-2014	Member of the platform "E-Mobility: Infrastructure" of the Federal Ministry of Transportation, Construction and Urban Development
2008-2014	Chairman of the examination board of the Faculty for Electrical Engineering and Information Technology, Ruhr-University Bochum
2008-2011	Expert for the Federal Court of Justice in Wind Energy
2008-2011	Member of the Senate of the Ruhr-University Bochum
since 2006	Reviewer for IEEE Industrial Electronics Society (IEEE IES)
since 2005	Member of the Scientific Advisory Board of the Magazine "Drive Technology" (drive systems of wind energy converters)
1996-2003	Member of the examination board for the department Mechanical Engineering and Process Engineering, TU Clausthal
1990-1992	Chairman of the Greek student community, TU Clausthal
1987-1988	Member of the student parliament, TU Clausthal
1986-1988	Member of the foreigner council, TU Clausthal
1984-1988	Chairman of the Greek student community, TU Clausthal