



Event:
Date:
Place:

ENERGY in BUILDINGS 2017
Saturday October 21, 2017
Athens, Hellas



WORKSHOP
Research and Innovation activities in nanotechnology
concerning Energy Efficient Buildings

 http://www.lawin.uni-jena.de/en/startpage/	Benjamin Heiz M.Sc., Dipl.-Ing.	
Title:	Research associate at Friedrich Schiller University, Jena, Germany	
Project title:	LaWin - Large Area Fluidic Windows	
Presentation title:	Ultrathin fluidic laminates for thermodynamically active windows and large-area facade systems	
<p>In this presentation, we report on glass-glass fluidic devices for large-area integration with adaptive facade and smart windows. Combining a microstructured glass pane, a thin cover sheet with tailored mechanical properties, and a liquid acting as a tunable cooling (or heating) reservoir, a thin glass laminate is generated which enables harnessing and dedicated control of various liquids for added functionality in the building envelope. With an overall thickness adapted to a single glass sheet in conventional windows, the device can be integrated with state-of-the-art glazings and facades to harvest thermal as well as solar energy by wrapping buildings into a thin fluidic layer.</p> <p>Experimental demonstration and computational verification of the concept are given in this presentation.</p>		
CV:	<p>Benjamin Heiz currently is a PhD candidate at the Laboratory of Glass Science with Prof. Wondraczek where the focus of his work is on the development and characterization of fluidic façade elements in the framework of the EU project <i>LaWin</i>. He holds a French engineering diploma in materials science and materials engineering from the EEIGM in Nancy.</p> <p>Work experience <u>Jan. 2015 – today</u> Research Associate, PhD Student Otto-Schott-Institute for Materials Research, FSU Jena D-07743 Jena, Germany</p> <p><u>Apr. 2014 – Sep. 2014</u> Industrial Internship / Master Thesis Robert Bosch GmbH D-70839 Gerlingen-Schillerhöhe, Germany</p> <p><u>July 2013 – March 2014</u> Research Internship / Research Assistant Fraunhofer Institute for Mechanics of Materials IWM D-79108 Freiburg im Breisgau, Germany</p>	

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Education

Sep. 2011 – Sep. 2014

EEIGM, European School of Materials Sciences and Engineering

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