



## A Two-Days Workshop at the Chair of Structural Mechanics

**1. Day:** Thursday, 18 September 2014

**Venue:** PB - B 014

Time	Name	Title of the presentation
Chair: Prof. Chuanzeng Zhang		
9:00 – 9:45	Prof. Chyanbin Hwu	A unified definition of stress intensity factors
9:45 – 10:30	Dr. Peter Stanak	Meshless MLPG modeling of smart piezoelectric materials
<b>10:30 – 11:00</b>	<b>Break</b>	
Chair: Prof. Chyanbin Hwu		
11:00 – 11:45	Tianxue Ma	Investigation of surface acoustic and optical waves in two-dimensional phoxonic crystals
11:45 – 12:30	Yanfeng Wang	Bandgap characteristics and design of phononic crystals with resonant elements
<b>12:30 – 13:30</b>	<b>Lunch</b>	
<b>13:30 – 19:30</b>	<b>Walking tour and guided tour to Krombacher brewery</b>	
<b>20:30</b>	<b>End of the first day's program</b>	

**2. Day:** Friday, 19 September 2014

**Venue:** PB - B 014

Time	Name	Title of the presentation
Chair: Dr. Peter Stanak		
9:00 – 9:45	Dr. Mikhail Golub	Simulation of wave propagation in multi-layered composites with imperfect contact at the interfaces via spring model
9:45 – 10:30	MSc. Hui Zheng	On local RBF methods
<b>10:30</b>	<b>Break</b>	
Chair: Dr. Mikhail Golub		
10:30 – 11:15	MSc. Longtao Xie	Unified explicit expressions of Green's functions and their applications in BEM for 3D general anisotropic materials
11:15 – 12:00	MSc. Elias Perras	Examination and optimization of a fan using numerical methods
<b>12:00 – 13:00</b>	<b>Lunch</b>	
Chair: Prof. Chyanbin Hwu		
13:00 -13:45	Dipl.-Ing. Benjamin Ankey	Stress and strength analysis with special emphasis on contact mechanics in elastic component systems using analytical algorithms
13:45 – 14:30	Prof. Chuanzeng Zhang	BEM for wave and elastodynamic problems
<b>15:00</b>	<b>Walking tour and end of the workshop</b>	

Prof. Dr.-Ing. habil. Chuanzeng Zhang

Siegen, 17. September 2014