HRVATSKO **D**RUŠTVO ZA **M**EHANIKU
CROATIAN **S**OCIETY OF **M**ECHANICS

PODRUŽNICA OSIJEK

i

Sveučilište Josipa Jurja Strossmayera u Osijeku

Građevinski fakultet Osijek

p o z i v a j u

na popularno–znanstveno predavanje

"Concepts for the seismic vulnerability assessment of a building stock: On the example of the SERAMAR project"

koje će održati

Dr.-Ing. Lars Abrahamczyk

s Bauhaus-Universität Weimar

u ponedjeljak, 28. rujna 2015. u 11:45 sati

na Građevinskom fakultetu Osijek, Crkvena 21,

predavaonica 3/P.

PREDSJEDNIK PODRUŽNICE:

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CURRICULUM VITAE

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ACADEMIC HISTORY

2002 – 2014	Research Assistant	Bauhaus-Universität Weimar, Earthquake Damage Analysis Center
since 03.2014	Chief Executive Officer	Research Training Group 1462, Bauhaus-Universität Weimar
since 2008	Project coordinator	2 research projects in the field of earthquake engi neering, building monitoring, risk studies and damage scenarios
2009	Coordinator	Workshop „Case studies of seismic building instru mentation and monitoring“ at Bauhaus-Universität Weimar
since 2010	Co-Lecturer	Seismic Monitoring, Earthquake Engineering; Risk projects at Master Course NHRE at Bauhaus-Uni versität Weimar
2010 – 2013	Coordinator and Lecturer	Bauhaus Summer School – “Model Validation and Simulation”
2014	Coordinator and Lecturer	Bauhaus Summer School – “Forecast Engineering”
2013	Member of the Org.Team	Exhibition “Wunden eines Erdbebens” zum Chile Erdbeben 2010 at the Parkhöhle Weimar

SELECTED PUBLICATIONS

Abrahamczyk, L; Schwarz, J. (2014): Model Validation and Simulation – Vol. II. *Proceedings*. Schriftenreihe des Instituts für Konstruktiven Ingenieurbau der Bauhaus-Universität Weimar, Band 23, VDG Verlag Weimar

Abrahamczyk, L (2014): Kenngrößen zur Prognose des Verhaltens von Geschossbauwerken in Erdbebengebieten und Kriterien für den Ertüchtigungsbedarf. *Thesis*. Schriftenreihe des Instituts für Konstruktiven Ingenieurbau der Bauhaus-Universität Weimar, Band 24, VDG Weimar

Abrahamczyk, L.; Schwarz, J.; Langhammer, T.; Genes, M.C.; Bikce, M.; Kacin, S. and Gülkan, P. (2013): Seismic Risk Assessment and Mitigation in the Antakya-Maras Region (SERAMAR): Empirical Studies on the basis of EMS-98. *Earthquake Spectra* Vol. **29 (3)**, 683-704.

Abrahamczyk, L.; Schwarz, J.; Lobos, D.; Maiwald, H. (2010): Das Magnitude 8.8 Maule (Chile)-Erdbeben vom 27. Februar 2010 – Ingenieuranalyse der Erdbebenschäden. Bautechnik 87, 8, 462–473

Abrahamczyk, L.; Schwarz, J. (2014): Qualification of seismic risk studies on the basis of instrumentally verified vulnerability functions for R.C. building types. In Proceedings: *10th U.S. National Conference on Earthquake Engineering*, Anchorage Alaska, 21-25 July 2014.

Schwarz, J.; Abrahamczyk L.; Leipold, M.; Wenk T. (2014): Vulnerability assessment and damage description for R.C. frame structures following the EMS principles. *Bullettin of Earthquake Engineering* 11/2014, Special Issue.

Abrahamczyk, L.; Schwarz, J.; Lang, D.H.; Leipold, M.; Golbs, Ch.; Genes, M.C.; Bikçe, M.; Kaçin, S. and Gülkan, P. (2008): Building monitoring for seismic risk assessment (I): Instrumentation of RC frame structures as a part of the SERAMAR project. In Proceedings *14th World Conference on Earthquake Engineering*, 12-17 October 2008, Abstract ID: 09-01-0140, Beijing, China.

Abrahamczyk, L.; Schwarz, J.; Langhammer, T.; Genes, M.C.; Bikçe, M.; Kaçin, S.; Yakut, A.; Erberik, A.M.; Gülkan, P. (2012): Empirical and Analytical Vulnerability Assessment of the Masonry Building Stock in Antakya (Hatay/ Turkey). In Proceedings *15th World Conference Earthquake Engineering*, Lisboa 2012, *Paper 1081*.

Schwarz, J.; Abrahamczyk, L.; Langhammer, T. (2006): Zuordnung von Verwaltungseinheiten zu den Erdbebenzonen der DIN 4149:2005- Nachtrag zum Beitrag, Erdbebengebiete der Bundesrepublik Deutschland – eine statistische Auswertung. *Bautechnik* **83**, Heft 2, 144--146.

SELECTED RESEARCH PROJECTS

- Damage and seismic response prognosis for RC frame structures on the basis of a hybrid approach combining instrumental and numerical data. (TUR 07/I09 IntenC: Promotion of German-Turkish Higher Education Research)
- Empirical and analytical assessment of masonry structures under seismic action (TUR 10/I59)