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Annex 4: List of teaching activities

1 Doctoral candidates supervised

1.1 Main supervisor of former PhD students (9 PhDs):

<p>Julien Michels (2005-2009)</p>	<p>„Shear transfer of steel fibre reinforced flat slabs“ („Schubtragverhalten von punktförmig gestützten Platten aus Stahlfaserbeton unter Berücksichtigung von Aussparungen in Stützennähe“) in collaboration with the company ArcelorMittal in Luxembourg. Dr. Julien Michels worked at the Structural Engineering Research Laboratory of Empa (“Eidgenössisches Material Prüfamt”) in Zürich from 2010-2016, Switzerland. Since 4/2016, he is the Managing Director & Structural Designer at the company “re-fer AG”, in Müllheim, Switzerland (Germany/www.re-fer.eu). In parallel, he is currently doing a MBA Master of Business Administration in a part-time program (from 2018-2020).</p>
<p>Edwige Nicolas (2005-2010)</p>	<p>„Compatibility and Incompatibility of Aggregates / Binder/ Superplasticiser“ (“Compatibilité et Incompatibilité Granulats/Liants/Superplastifiants”) in collaboration with the company CIMALUX in Luxembourg. She works as a teacher in a school in Nancy, France.</p>
<p>Nadine Leufgens (2006-2010)</p>	<p>“Research on the thermal insulation of external masonry walls out of lightweight concrete” (“Recherche sur l'isolation thermique d'un mur extérieur par des blocs en béton”) in collaboration with the company Contern in Luxembourg. She is an auditor for public road construction at the Highest Federal Authority – Federal Audit Office “Oberste Bundesbehörde – Bundesrechnungshof”), Germany.</p>
<p>Volker Bungard (2006-2010)</p>	<p>“Development and validation of dynamic testing methods to access the state of civil constructions and their comparison with known assessment technique” in collaboration with the administration Ponts et Chaussées Luxembourg in Luxembourg. He is project manager at the German Railway (“Deutsche Bahn”) in the department for construction projects (“ProjektBau”), Germany.</p>
<p>Sandro Weisheit (2006-2010)</p>	<p>„Characterisation study of the physical and chemical interactions of different components of self-compacting concrete“ („Charakterisierung der physikalischen und chemischen Wechselwirkungen verschiedener Komponenten von selbstverdichtendem Beton“) in collaboration with the company CIMALUX in Luxembourg. He is research assistant at the University of Weimar, Germany.</p>
<p>Andreas May (2009-2013)</p>	<p>„Load bearing capacity of steel concrete slabs out of wood chip concrete“ (“Zum Tragverhalten von Verbunddecken mit Holzleibbeton im Hochbau“) in collaboration with the company Eifelhaus in Luxembourg. He works as project manager at the company “Eriksen und Partner GmbH” Planning and Advising in the area of construction (“Planen und Beraten im Bauwesen”) in Germany.</p>

<p>Frank Scherbaum (2010-2014)</p>	<p>“Static evaluation of civil engineering structures” in collaboration with the administration Ponts et Chaussées Luxembourg in Luxembourg. He is responsible for inspections of structures for condition assessment, rehabilitation and repair at the company “WISSBAU beratende Ingenieurgesellschaft mbH” in Germany.</p>
<p>Shahriar Agaajani (2010-2015)</p>	<p>“Innovating solutions for wall structures by comparison of various component solution for their mechanical and physical characteristics” in collaboration with the company Contern in Luxembourg. He is administrator and owner of the company ASARS Constructions in Luxembourg.</p>
<p>Michael Weiler (2013-2017)</p>	<p>“Investigation of crack development in a fair-faced replacement screed based on hybrid fibre-reinforced concrete” in collaboration with the company Dyckerhoff in Germany. He is structural engineer at the company “SK-Ingenieurpartnerschaft” in Germany.</p>

1.2 Main supervisor of current PhD students (6 PhDs)

Dolgion Erdenebat (2015-ongoing)	“Condition assessment of bridges using and developing numerical and analytical methods” in collaboration with the administration Ponts et Chaussées Luxembourg in Luxembourg.
Gelen Chewe (2016-ongoing)	“Load-carrying behaviour of a dry-stacked bloc” in collaboration with the company Chaux de Contern in Luxembourg.
Patrick Pereira (2016-ongoing)	“Analysis of the structural behaviour of masonry blocks based on Miscanthus concrete” in collaboration with the company Chaux de Contern in Luxembourg.
Vishojit Thapa (2016-ongoing)	“Recycling of gravel wash mud for manufacturing CO2-reduced cement” in collaboration with the companies Carrières Feidt, CIMALUX and Contern in Luxembourg.
Lorenc Bogoviku (2018-ongoing)	“Circular Economy for concrete by using recycled concrete aggregates” in collaboration with the companies Carrières Feidt, CIMALUX, Cloos, ENECO, Entrapaulus, Recyma and the two administrations Administration of Environment (“Administration de l’Environnement”) and Laboratory of Public Road Administration (“Laboratoire des Ponts et Chaussées Luxembourg”) in Luxembourg.
N.N.	“Reusable and modular timber concrete composite flooring system” within the framework of the project Eco-Construction for Sustainable Development.

1.3 Co-supervisor at the University of Luxembourg of former PhD students (11 PhDs)

Markus Waltering (2005-2009)	“Development and validation of dynamic testing methods to access the state of civil constructions and their comparison with known assessment techniques”. He is now professor at the University for Applied Sciences in Münster in Germany.
Andreas Thielen (2005-2009)	“Optimisation of the load bearing capacity of antibiotic loaded interim hip prosthesis” (“Optimierung der Tragfähigkeit von antibiotikabeladenen PMMA-Hüftinterimsprothesen”). He is research engineer at Eurocomposites S.A. in Luxembourg.
Vincent Hanus (2006-2010)	« Analysis and modelling of acoustic emissions on vibration driven sheet piles » (« Analyse et modélisation de la génération du bruit lors du vibrofonçage de palplanches et détermination du potentiel d'optimisation »). He is professor at the „Haute École de Namur-Liège-Luxembourg in Arlon.
Andreas Thewes (2007-2011)	„Energy consumption of new school and administrative buildings with special focus on the new university building in Esch-Belval“ („Energieverbrauch neuer Schul- und Verwaltungsgebäude in Luxemburg mit besonderem Schwerpunkt auf den neuen Universitätsgebäuden in Esch-Belval“). He works as engineer at Paul Wurth S.A. in Luxembourg.
Thorsten Hoos (2008-2012)	„Energetic assessment of administrative buildings in Luxembourg: Inventory, Analysis, Improvement strategies“ („Der energetische Zustand der öffentlichen Verwaltungsgebäude in Luxemburg: Bestandsaufnahme, Analyse, Verbesserungsstrategien“). He started his own construction company in Germany.
Simon Njingoue (2008-2012)	„Analysis of the load transfer in knee hinge“ („Analyse der Kraftübertragung im Kniegelenk“). He is professor for physics at a secondary school in Luxembourg.
Jean Mahowald (2009-2013)	“Dynamic evaluation of civil engineering structures”. He works in the field of structural dynamics for the group Wölfel in Germany.
Laurent Wahl (2009-2013)	“Determination of fatigue characteristics for the core structure in aluminium honeycomb plates”. He started to work for ILNAS, the national institute for normalisation, accreditation and security of services and products in Luxembourg. Now, he is project engineer at the Administration of Public Buildings (“Administration des Bâtiments Publics”) in Luxembourg.
Alexander Merzkirch (2011-2015)	“Database, Details and best-available techniques for Energy Efficiency in residential buildings in LUXembourg (DDEELUX)”. He is research and development engineer at Bosch Thermotechnik GmbH in Stuttgart, Germany.
Arnaud Diffu Kaze (2012-2016)	« Comparative bio-mechanical study of five different fixation systems for squawking tibia osteotomy » (« Etude biomécanique comparative de cinq différents systèmes de fixation utilisés dans les cas d’ostéotomies tibiales valgissantes »). He is research associate at the hospital centre of Luxembourg (“Centre Hospitalier de Luxembourg”).
Huang Haiqin (2015-2019)	“Numerical prediction of the rheological properties of fresh self-compacting concrete.” She has currently a PostDoc position at the University of Luxembourg.

1.4 Co-supervisor at the University of Luxembourg of current PhD students (8 PhDs)

Qingjie Zhang (2016-ongoing)	“Analysis and comparison of European and Chinese structural Design Codes - with special attention to concrete structures and composite structures in steel and concrete”.
Dietmar Backes (2017-ongoing)	“Multiscale, multi-sensor 3D data quality control and integration with focus on low-cost drones”.
Rakotonjanahary Michael (2017-ongoing)	“Energy efficiency and life cycle optimisation of building elements in re-usable modular building architecture”.
Michael Habera (2017-ongoing)	“Predictive modelling and integrated simulation of 3D concrete degradation”.
Ferreira Silvia Marielle (2018-ongoing)	“Models for Reusage and Recycling of Architecture”.
Melissa Bellesi (2018-ongoing)	“Space as a catalyst for a healthy school environment: Systemic conceiving and achieving of conviviality in schools of the 21st century”.
Jovan Fodor (2018-ongoing)	“Investigation in reusable composite flooring systems in steel and concrete based on composite behaviour by friction”.
Akbarieh Arghavan (2018-ongoing)	“Precise positioning for as-built acquisitions in building information models”.

1.5 Co-supervisor aboard of current PhD students (4 PhDs)

Charlotte Mercier (2016-ongoing)	« Instabilités des barres comprimées fléchies avec la prise en compte des imperfections ». University of Lorraine, France.
Imane El-Houjeyri (2016-ongoing)	« Expérimentation et études des assemblages réalisés par tourillons en bois densifié ». École Nationale Supérieurs des Technologies et Industries du Bois ENSTIB, France.
Tuan Anh BUI (2016-ongoing)	« Finite element vibration analysis of cross-laminated wood floor panels with variability ». École Nationale Supérieurs des Technologies et Industries du Bois ENSTIB, France.
Maxime Turetta (2017-ongoing)	“On the development of a new steel-concrete composite beam solution fire resistant, unpropped in construction stage, acting with a non-standard composite connection position”. University of Lorraine, France.

2 International awards and distinctions with PhD students as main supervisor

International awards and distinctions of PhD students under my supervision

- **“International Masonry Society Prize 2015”** in London, United Kingdom (main prize in the field of **Structural Masonry** where all main research outcomes of this field are reviewed) for my PhD Dr.-Ing. Shahriar Agaajani for the thesis he realised at the *University of Luxembourg* from 2010-2015.
Reference of the thesis: Shahriar Agaajani. Development and investigation of a new dry-stacked wall system. University of Luxembourg. 2015. <http://hdl.handle.net/10993/21575>
- **“Schretter & Cie Prize 2011”** (“Schretter & Cie Anerkennungspreis 2011”) in Austria: **main annual prize of Austria** awarded by **Mineral Materials Industry** where all doctoral theses of Austria are reviewed **in the field of material characterisation of concrete** for my PhD Dr.-Ing. Sandro Weisheit for the thesis he realised at the *University of Luxembourg* from 2006-2010 under my supervision when he started as Postdoc at the University of Innsbruck.
Reference of the thesis: Sandro Weisheit. Zu den Einflüssen der klimatischen Umgebungsbedingungen auf die Eigenschaften eines Selbstverdichtenden Betons (“*Impact of the climate boundary conditions on the properties of self-compacting concrete*”). Universität Luxemburg, Shaker-Verlag, Aachen, 2011. ISBN: 978-3-8440-0085-6
- Awarded **Paper-Runner-Up Prize for Best Paper** at the third Scottish Conference for Postgraduate Researchers at Glasgow Caledonian University for my PhD Dr.-Ing. Nadine Leufgens
Reference of the paper: N. Leufgens, D. Waldmann, S. Maas, A. Zürbes. „Development of Light Concrete Bricks with Improved Heat-Insulating Properties“. Published in: Proceedings of the third Scottish Conference for Postgraduate Researchers of the Built & Natural Environment – ProBE 2007, Glasgow Caledonian University, November 2007; p. 277-289; ISBN-13 978-1-905866-17-5 und ISBN-10 1-905866-17-8.
- **Award for the best poster** at the XXVIth University Meeting of Civil Engineering 2008 – Prize René Houpert (« XXVIemes Rencontres Universitaires de Génie Civil 2008- Prix René Houpert ») for my PhD Dr. Edwige Nicolas
Reference of the poster:
Nicolas, E., D. Waldmann. « Compatibilités et incompatibilités liants/superplastifiants » (« Compatibility and Incompatibility of binder/superplasticiser ») **XXVIemes Rencontres Universitaires de Génie Civil 2008- Prix René Houpert. 2008.**
<http://hdl.handle.net/10993/23594>