

Christian U. Grosse, Prof., Dr.-Ing. habil., Dipl.-Geophys.

Curriculum Vitae and Academic Commitment

Office address:

Lehrstuhl für Zerstörungsfreie Prüfung (Chair of Non-destructive Testing) at the Center for Building Materials (cbm), Technische Universität München (Technical University of Munich)
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FOCUS OF RESEARCH

- Combination of non-destructive testing techniques including ultrasound, acoustic emission testing, impact-echo, radar, infrared-thermography, CT scanning, vibration analysis techniques, video-endoscopy, monitoring techniques
- Detection of damage in concrete and reinforced concrete
- Structural health monitoring of structures using wired and wireless sensor technology (predictive maintenance and service life analysis); digital twin concepts
- NDT techniques for lightweight composites (CFRP, GFRP)
- Quality Assurance in the field of Additive Manufacturing (AM)
- Numerical simulation of NDT testing techniques
- Development of new materials with, for example, superhydrophobic or self-healing properties
- Biomechanical investigations with the *Klinikum rechts der Isar* (hospital of TU Munich)
- Forensics Crime Scene Investigations and support of law enforcement activities
- Archaeological investigations and non-destructive examination of historic objects (e.g. of King Cheops Pyramid at Gizeh, Egypt)
- Drone aerial assessment of buildings and facilities (including IR thermography)

EDUCATION AND UNIVERSITY CAREER

Chair of NDT	Professor in Non-destructive testing at the renowned Technical University of Munich - April 2010. The position includes a joint appointment at the faculties of civil and mechanical engineering
Venia legendi	University of Stuttgart, Germany; the right to teach at Universities with expertise in "material testing" earned 26 April 2005, title: Privatdozent (Priv.-Doz.); lectures given in building physics, non-destructive testing, and conservation
Habilitation	Faculty of Civil and Environmental Engineering of the University of Stuttgart; 28 February 2005
Ph.D.	in Civil Engineering at the Institute of Construction Materials of the University of Stuttgart; thesis title: <i>Quantitative Non-Destructive Testing of Construction Materials Using Acoustic Emission Technique and Ultrasound, (with honors)</i> ; 5 July 1996
Diploma	Diploma in Geophysics (M.Sc. equivalent); 1 August 1989
Graduation	Geophysics, University of Karlsruhe, Germany: 1982 – 1989; Vordiplom (B.A. equivalent) in 1984

EMPLOYMENT HISTORY AND RESEARCH VISITS

since 2010	Head of the Laboratory for Non-destructive Testing at the Technische Universität München including a position on the board of directors of the Center for Building Materials
2016-2017	Visiting research scholar at the <i>University of Canterbury, New Zealand</i>
since 2015	Head of the division “Structural Health Monitoring and Non-destructive Testing” at the company WTM Engineers GmbH, München, Germany
2009-2010	“Kommissarischer Direktor” (Provisional Director) of the Materialprüfungsanstalt Universität Stuttgart (Material Testing Institute of the University of Stuttgart), Germany
2008-2010	“Außerplanmäßiger Professor” (Adjunct Professor) at the University of Stuttgart, Germany
2007-2010	Associate Director of the Materialprüfungsanstalt Universität Stuttgart (Material Testing Institute of the University of Stuttgart, Germany)
2006-2008	University lecturer (Privatdozent) at the Institute of Construction Materials, University of Stuttgart, Germany
2005-2006	Visiting research scholar at the <i>University of California, Berkeley, CA, USA</i>
Sept. 2004	Setting up the company <i>Smartmote</i> (smart monitoring and inspection)
2002-2005	Senior Researcher (tenured) and lecturer at the Institute of Construction Materials, University of Stuttgart, Germany
February 2002	Guest researcher at the <i>Center for Advanced Cement-Based Materials</i> , Northwestern University, Evanston, IL, USA
Summer 2001	Guest researcher at the <i>Ecole Nationale des Travaux Publics de l'Etat (ENTPE)</i> in Vaulx en Velin, Lyon, France
2001 – 2006	Supervisor and manager of “Forscherguppe 384” (a collaborative project sponsored by the German Research Society, DFG)
1999 – 2001	Scientific assistant and supervisor of the Non-destructive Testing Group at the Institute of Construction Materials, University of Stuttgart
1994 – 1999	Research scientist, Institute of Construction Materials of the Univ. of Stuttgart; head of two subprojects of the collaborative research project SFB 381
1990 – 1994	Research scientist, Federal Research and Material Testing Institute of the state of Baden-Württemberg, Germany
1989 – 1990	Scientific assistant at the Geophysical Institute, University of Karlsruhe, Germany

UNIVERSITY COURSES AND LECTURES

1988 – 1989	<i>Field measurement techniques in Geophysical Prospecting</i> , Graduate Program for Geophysicists and Geologists, University of Stuttgart, Germany, (fourth year), summer course
1990 – 2005	Lecture <i>Damage and Repair of Constructions</i> , Graduate Program in Civil Engineering, University of Stuttgart, Germany, (fourth year), 2 hours per week
1999 – 2000	Lecture <i>Building physics</i> , course <i>Project Management</i> , Univ. of Applied Science, Biberach, Germany, Bachelor program (first year), 4 hours per week
2002 – 2005	Lecture <i>Building physics</i> , course <i>Project Management</i> , Univ. of Applied Science, Biberach, Germany, Bachelor program (first year), 4 hours per week
2004 – 2005	Lecture <i>Building physics</i> , course <i>Facility Management</i> , Univ. of Applied Science, Biberach, Germany, Bachelor program (first year), 8 hours per week
April 26 2005	Inaugural lecture at the faculty of Civil and Environmental Engineering of the University of Stuttgart.

2006 - 2010	Lectures in <i>Non-destructive Testing in Civil Engineering (Quality Control, Inspection, and Monitoring)</i> ; Graduate Program in Civil Engineering, University of Stuttgart, Germany, (fourth year), 3 hours per week
since 2010	NDT topics in the Exercise Course <i>Practical Training in Construction Materials</i> (BSc)
2010 - 2015	Lectures in <i>Non-destructive testing part I</i> ; Master Program in Civil and Mechanical Engineering, 5 hours per week
2010 - 2015	Lectures in <i>Non-destructive testing Part II</i> ; Master Program in Civil and Mechanical Engineering, 5 hours per week
2011 - 2014	Seminar on <i>Material Testing</i> ; Master Program in Civil and Mechanical Engineering together with the University of Salzburg (Austria), 3 hours per week
2011 - 2015	Lectures in <i>Material Science Part I+II</i> ; Bachelor's Program in "Engineering Science" at the Munich School of Engineering, 4 hours per week

Currently since 2015

- Bachelor's Programs
NDT topics in the exercise course *Materials in Civil Engineering* (B.Sc.). Summer semester: Material Science II (Bachelor's program Munich School of Engineering)
- Master's Programs
 - Winter semester: *Non-destructive Testing in Civil Engineering*
 - Winter semester: *Non-destructive Testing in Mechanical Engineering*
 - Summer semester: *Measurement & Sensor Technologies* (Master's program Material Science and Engineering)
 - Summer semester: *Basics of Non-destructive Testing* (Master's program Mechanical Engineering and Civil, Geo and Environmental Engineering)
- Seminar *Non-destructive Testing* (winter and summer semester) for Master's program Mechanical and Civil Engineering
- Seminar *Science in Cultural Heritage* (winter and summer semester) for Master's program in Architecture
- Hands-on block exercises ("Hochschulpraktikum") *Non-destructive material testing for engineers* (winter and summer semester, Master's program Mechanical Engineering)
- *Advanced seminar Non-destructive Testing* (winter and summer semester)
- Different individual lectures, e.g. in *Composites Materials and Structure-Property Relationship* (Master's program Mechanical Engineering)

MEMBERSHIPS

since 1985	Member of the German Society of Geophysicists, DGG
1992 – 1994	Founding member of the SFB 381 <i>Characterization of fiber-reinforced materials using non-destructive testing</i>
since 1993	Working group <i>Methods in digital waveform analysis</i> of the German Society of Geophysicists
since 1993	Corporate and then personal member of the International Union of Laboratories and Experts in Construction Materials, Systems, and Structures (<i>RILEM</i>)
since 1994	Personal member of the German Society of Non-destructive Testing, DGZfP
since 1994	Personal member of the technical committee Acoustic emission technique, DGZfP, since 1998: committee deputy chairman
since 1996	Member of the technical committee NDT in civil engineering and of 13 sub-committees, DGZfP
2000 – 2006	Secretary of the Rilem Technical Committee "Advanced testing of cement-based materials during setting and hardening", TC 185-ATC
since 2001	Member of the Editorial Board NDT.net - The e-Journal of Nondestructive Testing
2006 – 2010	Secretary of the Rilem Technical Committee "Sonic methods for quality control of cementitious materials", TC 218-SFC
2009 – 2012	Member of the Rilem Tech. Committees "239-MCM", "230-PSC" and "215-AST"

- 2009 – 2019 Member of the German WindEnergy Association, BWE
 since 2009 Member of the Board of Trustees of the German Technology Platform (GCTP)
 2010 – 2016 Member of the European Association of Geoscientists and Engineers (EAGE)
 since 2018 Member of the Board of Trustees of the Deutsches Museum München

SELECTED RESEARCH PUBLICATIONS

Journals (selection incl. Phys. Review Letters, Advanced Materials, and Nature)

- Bauer F, Forndran D, Schromm T, Grosse CU.** (2022). *Practical Part-Specific Trajectory Optimization for Robot-Guided Inspection via Computed Tomography*, Journal of Nondestructive Evaluation, 41:55, Published online 31 Jul 2022. (Link: <https://doi.org/10.1007/s10921-022-00888-9>)
- Lauff P, Pugacheva P, Rutzen M, Weiß U, Fischer O, Volkmer D, Peter M, Grosse CU.** (2021). *Evaluation of the Behavior of Carbon Short Fiber Reinforced Concrete (CSFRC) Based on a Multi-Sensory Experimental Investigation and a Numerical Multiscale Approach*. Materials 2021, 14(22), 7005. doi: 10.3390/ma14227005
- Ertelt MJ, Bubendorfer L, Grosse CU, Lieleg O.** (2021). *Bacterial spores as hydrophobizing agents in mortar*. Cement and Concrete Composites, Vol. 120, 104002. doi:10.1016/j.cemconcomp.2021.104002
- Scherr, J. F.; Grosse, CU.** (2020). *Delamination detection on a concrete bridge deck using impact echo scanning*. Structural Concrete 22, 806–812. doi:10.1002/suco.202000415
- Rutzen M, Lauff P, Niedermeier R, Fischer O, Raith M, Grosse CU, Weiss U, Peter M, Volkmer D.** (2021). *Influence of fiber alignment on pseudoductility and microcracking in a cementitious carbon fiber composite material*. Materials and Structures, Vol 54. doi:10.1617/s11527-021-01649-2
- Rus J, Grosse CU.** (2020). *Local Ultrasonic Resonance Spectroscopy: A Demonstration on Plate Inspection*. J. of Nondestructive Evaluation. Band 39. Article 31, 8pp. <https://doi.org/10.1007/s10921-020-00674-5>.
- Geiss CT, Grosse CU** (2019). *A concept for an integrated risk-based operation and maintenance strategy for wind turbines*. International Conference on Structural Engineering, Mechanics and Computation, Cape Town, South Africa, 2-4 Sep 2019 (SEMC 2019).
- Snoeck D, Malm F, Cnudde V, Grosse CU, Van Tittelboom K** (2018). [Validation of Self-Healing Properties of Construction Materials through Nondestructive and Minimal Invasive Testing](#). Advanced Materials Interfaces, Wiley. DOI: [10.1002/admi.201800179](https://doi.org/10.1002/admi.201800179).
- Kessler S, Thiel C, Grosse CU, Gehlen C** (2017). *Effect of freeze-thaw damage on chloride ingress into concrete*. Materials and Structures. 2017, 121, No.50. (09.12.16). DOI 10.1617/s11527-016-0984-4.
- Grumbein S, Minev D, Tallawi M, Boettcher K, Prade F, Pfeiffer F, Grosse CU, Lieleg O.** (2016). *Hydrophobic Properties of Biofilm-Enriched Hybrid Mortar*. Adv. Mater. 28, No 37, pp 8138-8143, doi:10.1002/adma.201602123.
- Cruz Hidalgo R, Grosse C, Kun F, Reinhardt H-W, Herrmann H.** (2002). *Evolution of percolating force chains in compressed granular media*. Phys. Rev. Let. 89, No. 20, pp. 205501/1 – 205501/4.
- Prodehl K, Mechie J, Kaminski W, Fuchs K, Grosse C, et al.** (1991). *Large-scale variation in lithospheric structure along and across the Kenya rift*. Nature 354, Nr. 21.

Books or Book Chapters (selection)

- Grosse CU, Ohtsu M, Aggelis DG, Shiotani T (Eds.)**. (2022). [Acoustic Emission Testing: Basics for Research -Applications in Engineering](#). Springer Nature Switzerland AG. doi:10.1007/978-3-030-67936-1
- Gabrijel I, Staquet S, Krüger M, Carette J, Grosse CU, Trtnik G.** (2020). *Ultrasonic Techniques for Determination and Monitoring Various Properties of Cementitious Materials at Early Ages*. In: [Advanced Techniques for Testing of Cement-Based Materials](#) (Eds. Serdar et al). Springer International Publishing. pp. 23-68, ISBN: 978-3-030-39738-8.
- Gabrijel I, Grosse CU, Skzlić M.** (2019). *Novel Methods for Characterization of Materials and Structures*. (Edition). [RILEM Proceedings PRO 128](#), ISBN: 978-2-35158-217-6, VOL 5.
- Grosse CU, Jüngert A, Jatzlau P.** (2018). [Local Acoustic Resonance Spectroscopy](#). In Handbook of Advanced Non-Destructive Eval. (Eds. Ida N, Meyendorf N) Springer Publ., doi: 10.1007/978-3-319-30050-4, 24pp.
- Grosse CU, Aggelis D, Shiotani T.** (2016). *Concrete Structures*. In: Innovative AE and NDT Techniques for On-Site Measurement of Concrete and Masonry Structures (Ed. Ohtsu, M.), RILEM State-of-the-Art Reports 20, Springer Berlin Heidelberg, pp 5-25; doi: 10.1007/978-94-017-7606-6
- Grosse CU. (Ed.)**. (2007). [Advances in Construction Materials 2007](#). Springer publ., Heidelberg, ISBN: 978-3-540-72447-6, 784 p.

Reinhardt HW, Grosse CU, Kurz JH. (2006). *Short Fiber Reinforced Concrete*. Chapter 2.1.2 in „[Damage in Composite Materials - Simulation and Non-Destructive Evaluation](#)“ (Busse, Kröplin, Wittel Eds.), Norderstedt: ISD-Verlag, pp 143-155.

Reinhardt HW, Grosse CU. (Eds.). (2005). *Advanced testing of cement-based materials during setting and hardening*. [RILEM Report 31](#), ISBN: 2912143705, RILEM Publ. S.A.R.L.: Cachan ENS, ca. 341 p.

- [Monographs, books, or book chapters](#): 58
- [Patents](#): 4
- [Papers in journals or proceedings with peer-review system](#): 111
- [Papers in journals or proceedings without peer-review system](#): 278
- Newspaper articles, interviews, and other publications: 18

For an actual list see:

<https://www.mae.ed.tum.de/zfp/mitarbeitende/prof-dr-grosse-christian-u/publikationen/>

Publications Σ : ~ 478

Google h-index: 37 Google i10-index: 109

SERVICE AS A REVIEWER FOR SCHOLARLY JOURNALS AND ACADEMIC INSTITUTIONS

Journals (selection)

- J. of Nondestructive Evaluation, Springer Publ.
- Cement and Concrete Research, Elsevier Science J.
- J. of Advanced Concrete Technology, Japan Concrete Institute
- Structural Health Monitoring, SAGE Publications
- Computational Material Science, Elsevier Science J.
- Cement and Concrete Composites, Elsevier Sci. J.
- Concrete Science and Engineering, RILEM Publications
- J. of Construction and Building Mat., Elsevier Sci. J.
- NDT&E International, Elsevier Science Journal
- Materials and Structures, RILEM Publications
- Ultrasonics, Elsevier Physics Journal

... and many more.

Reviews for Academic Organizations and Institutions (selection)

- Germany: Wissenschaftsrat der Bundesrepublik Deutschland (Science Council of the Federal Republic of Germany), Cologne
- Germany: Deutsche Forschungsgemeinschaft, DFG (German Science Foundation), Bonn
- Austria: Österreichische Forschungsförderungsgesellschaft mbH, Vienna
- Belgium: FWO, Fonds Wetenschappelijk Onderzoek (Research Foundation in Flanders), Brussels
- Belgium: Fund for Scientific Research – FNRS, Brussels
- Netherlands: Nederlandse Organisatie voor Wetenschappelijk Onderzoek NWO (Dutch Research Council), The Hague
- Croatia: Croatian Science Foundation (CSF)
- Germany: Alexander von Humboldt-Stiftung, Berlin
- Germany: Carl Zeiss Stiftung (Wissenschaftler-Rückkehrprogramm GSO/CZS), Stuttgart
- USA: MIT – Massachusetts Institute of Technology; Signature Program
- Germany: TU Hamburg-Harburg, I³ programme, Hamburg

PROMOTOR, COMMISSION MEMBER OR CO-PROMOTOR OF PH.D. THESES

- **Michael Dirkens*** (5.1.2005), Mesures rhéologiques et modélisation de matériaux en cours de prise; Ecole Nationale des Travaux Publics de l'Etat (ENTPE) in Vaulx en Velin, Lyon, France

- **Barbara Schechinger*** (28.9.2005), Acoustic Emission for the monitoring of failure in SRC; Dept. of Structural Engineering of Eidgenössische Technische Hochschule (ETH), Hönggerberg, Zürich, Switzerland
- **Stephan Fricker*** (26.10.2009), Feldversuche mit dem akustischen Überwachungssystem Sound-Print; Institut für Baustatik und Konstruktion der Eidgenössischen Techn. Hochschule (ETH), Hönggerberg, Zürich, Switzerland
- **Martin Häge*** (9.12.2009), Weiterentwicklung und Validierung eines neuen Verfahrens zur Kartierung seismisch aktiver Verwerfungen durch Kurzzeit-Kleinstbebenmessungen; Institut für Geophysik, Universität Stuttgart, Stuttgart, Germany
- **Nicolas Robeyst*** (23.11.2009), Monitoring the setting and microstructure development of fresh concrete with ultrasonic measurements; Magnel Laboratory for Concrete Research, Dept. of Structural Eng., Ghent University, Ghent, Belgium
- **Anne Jüngert** (10.2.2010), Detektion von Schädigungen in Rotorblättern von Windenergieanlagen mittels akustischer Verfahren; Institut für Werkstoffe im Bauwesen (IWB), Universität Stuttgart, Stuttgart, Germany
- **Ernst Niederleithinger*** (17.9.2010), Optimierung und Erweiterung der Parallel-Seismik-Methode zur Bestimmung der Länge von Fundamentpfählen; Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany, and Universität Potsdam, Germany
- **Michael Ries*** (20.12.2010), Experimentelle und numerische Analyse von Porosität in einer Nickelbasis-Guss-Superlegierung zur Prognose des mechanischen Verhaltens; Lehrstuhl für Werkstoffkunde und Werkstoffmechanik, TU München, München, Germany
- **Ahmad Osman*** (14.06.2013), Automated evaluation of three-dimensional ultrasonic datasets; Technische Fakultät, Universität Erlangen, Germany
- **Dorothee Moser** (07.03.2014), Charakterisierung von Schädigungen in Gesteinen bei Impaktprozessen mit zerstörungsfreier Prüfung; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
- **Josipa Bosnjak*** (23.05.2014), Explosive spalling and permeability of high performance concrete under fire – numerical and experimental investigations; Institut für Werkstoffe im Bauwesen (IWB), Universität Stuttgart, Stuttgart, Germany
- **Gregor Ballier*** (28.11.2014), Abbildung und Analyse von Fehlstellen in Betonbauteilen mittels Ultraschall unter Berücksichtigung von Materialinhomogenitäten; Fachbereich Elektrotechnik der Universität Kassel, Germany
- **Franziska Baensch*** (17.12.2014), Damage evolution in wood and layered wood composites monitored in situ by acoustic emission, digital image correlation and synchrotron based tomographic microscopy, Department of Civil, Environmental and Geomatic Engineering, Chair of Wood Physics, ETH Zürich, Switzerland
- **Christian Thiemann*** (25.09.2015), Methode zur Konfiguration automatisierter thermografischer Prüfsysteme; Lehrstuhl für Werkzeugmaschinen und Fertigungstechnik, TU München, München, Germany
- **Holger Diederich*** (12.09.2016), Detektion von Betonstahlbrüchen mithilfe von Messungen im remanenten und aktiven Magnetfeld, Institut für Baustatik und Konstruktion der Eidgenössischen Techn. Hochschule (ETH), Hönggerberg, Zürich, Switzerland
- **Michael Grumbein*** (28.10.2016), Material properties of bacterial biofilms; Professur für Biomechanik, TU München, München, Germany
- **Carola Wieser*** (14.11.2016), Quantifying the Effect of Stress Changes on the Deformation and Cracking Behavior of Solid Rock using Acoustic Emission; Lehrstuhl für Ingenieurgeologie, TU München, München, Germany
- **Joao Luis Garcia Feiteira*** (31.03.2017), Self-healing concrete – encapsulated polymer precursors as healing agents for active cracks; Magnel Laboratory for Concrete Research, Faculty of Engineering and Architecture, Ghent University, Belgium
- **Si Liang*** (21.06.2017), A Robust In-Situ Health Monitoring and Identification Technique for Thin-walled Fiber Composite Structures under Various Types of Adverse Disturbances; Lehrstuhl für Leichtbau, TU München, München, Germany
- **Denis Kiefel** (03.08.2017), Quantitative Porositätscharakterisierung von CFK-Werkstoffen mit der Mikro-Computertomografie; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
- **Sebastian Heckner** (08.08.2017), Zerstörungsfreie Prüfmethode zur Oberflächencharakterisierung von kohlenstofffaserverstärkten Kunststoffen; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
- **Christophe Loraux*** (14.12.2017), Long-term monitoring of existing wind turbine towers and fatigue performance of UHPFRC under compressive stresses; Structural Maintenance and Safety Laboratory, EPFL Lausanne, Switzerland

- **Christian Geiss** (21.02.2018), Holistic Asset Management Concept for Wind Turbines using Non-destructive Testing and Structural Health Monitoring Techniques; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
 - **Markus Schmid*** (10.04.2018), Untersuchung Zur industriellen Faseroptischen Blattlastmessung an Windenergieanlagen; Lehrstuhl für Messsystem- und Sensortechnik, Fakultät für Elektrotechnik und Informationstechnik, TU München, München, Germany
 - **Sokratis Ilioupoulos*** (22.08.2018), Use of innovative ultrasonic wave dispersion and attenuation features for quality control of fresh cementitious materials, Vrije Universiteit Brussel, Faculty of Engineering, Department: MeMC, Belgium
 - **Eirini Tziviloglou*** (26.09.2018), Biogenic Self-Healing Mortar Material development and experimental evaluation, TU Delft, Faculty of Civil Engineering and Geosciences, Professor of Experimental Micro-Mechanics, The Netherlands
 - **Ronald Richter** (12.02.2020), Anwendung der Schallemissionsanalyse bei Tunnelbrandprüfungen an Beton; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
 - **Ralf Urbanek*** (16.03.2020), Lock-in Thermographie bei der Ermüdung an metallischen Werkstoffen; Institut für Werkstoffkunde, Fakultät für Luft- und Raumfahrttechnik, Universität der Bundeswehr, München, Germany
 - **Gaspard Clerc*** (17.06.2020), Analysis of the fatigue performance of adhesively bonded wood joints; Professur für Holztechnologie, TU München, München, Germany
 - **Janez Rus** (22.03.2021); Contact-Free Non-Destructive Inspection by Broadband Ultrasound; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
 - **Michael Mosch** (23.03.2021), Automated evaluation of non-destructive testing situations using a generic model; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
 - **Fabian Malm** (13.07.2021), Zerstörungsfreie Prüfverfahren zur Charakterisierung von zementgebundenen Werkstoffen mit Selbstheilungseigenschaften; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
 - **Rene Tatarin*** (15.12.2021), Charakterisieren struktureller Veränderungen in zementgebundenen Baustoffen durch akustische zerstörungsfreie Prüfverfahren, F. A. Finger-Institut für Baustoffkunde, Bauhaus-Universität, Weimar, Germany
 - **Sabine Wagner*** (19.01.2022), Untersuchung zum Einfluss von veränderten austenitischen Schweißnahtgefügen auf die Ultraschallprüfung, Institut für Materialprüfung, Werkstoffkunde und Festigkeitslehre (IMWF), Universität Stuttgart, Stuttgart, Germany
 - **Martin Radlmeier** (21.01.2022), Startwertbestimmung von Schallemissionssignalen bei der Schädigungsanalyse von CFK-Testkörpern; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
 - **Max Botz** (18.05.2022), Structural-Health-Monitoring der Tragstruktur von Windkraftanlagen; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
 - **Mandana Parsi*** (20.07.2022), Analyzing and 3D Modelling of Electrical Resistivity Tomography Tomography (ERT) data for Archaeological Propection; Fakultät für Geowissenschaften der Ludwig-Maximilians-Universität München, Germany
 - **Fabian Bauer** (27.09.2022), Trajectory Optimization for Sparsely Sampled Computed Tomography; Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
 - **Patrick Oser** (Dezember 2022), Entwicklung der auf den optischen Fasern basierenden photoakustischen Wandler für Ultraschallanwendungen; University of Applied Sciences in Munich and Centrum für Baustoffe und Materialprüfung (cbm), TU München, München, Germany
- * as Co-promotor

SERVICE IN THE ACADEMIC SELF-GOVERNMENT

2011 – 2020	Member of the board of the faculty (Fakultätsrat) of the Munich School of Engineering
2012 – 2021	Member of the board of examiners (Prüfungskommission) of the Munich School of Engineering in the Bachelor's program
Since 2017	Member of the board of examiners (Prüfungskommission) of the Munich School of Engineering in the Master's program
Since 2022	Member of the board of examiners (Prüfungskommission) of the Munich School of Engineering in the Bachelor's program