

Nils Goseberg

Prof. Dr.-Ing.

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Personal Information

Name	Nils René Goseberg
Date of Birth	12.10.1978
Place of Birth	Iserlohn, Germany
Nationality	German
Marital Status	Married, 3 children

Professional Experience

- 2018/07 – present **Managing Director**, *Coastal Research Center (Forschungszentrum Küste)*, Joint Research Center of Technische Universität Braunschweig and Leibniz Universität Hannover, Germany.
Heading CRC'S team of staff, science communication, funding applications, management
- 2018/01 – present **Professor (W3) Hydromechanics, Coastal and Ocean Engineering**, *Leichtweiß-Institute for Hydraulic Engineering and Water Resources*, Technische Universität Braunschweig, Germany.
Responsibility to teach and conduct research, building multidisciplinary collaboration
- 2011/05 – 2017/12 **Senior Research Associate**, *Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering*; since 16.11.2016 *Ludwig-Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering*, Leibniz University Hannover, Germany.
Post-doctoral researcher responsible for teaching, project acquisition and leadership, finances
- 2014/07 – 2017/06 **Marie Curie International Outgoing Fellow and Visiting Professor**, *Department of Civil Engineering*, University of Ottawa, Canada, Project: "Spatiotemporal Distribution and Structural impact LOading due to Artificial Debris Objects in Violent Flows (**impLOADis**)".
- 2007/05 – 2011/04 **Research Assistant**, *Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering*, Leibniz University Hannover, Germany.
Conducting various research projects and PhD thesis completion
- 2001/01 – 2001/10 **Carpenter**, *Carpentry Ross*, Neuenrade, Germany.
- 06/1998 – 04/1999 **Military Service**, *Schweres Pionierbataillon 330*, Speyer, Deutschland.

Education

Higher Education

- 2014/07 – 2017/08 **Habilitation (habil.)**, *Leibniz Universität Hannover*, Hannover, Germany, Habilitation, Thesis title: "'Advances in Laboratory Measurements for Hydraulic and Coastal Engineering'", Oral Defense: 01.08.2017.

2007/05 – 2011/03 **Research Assistant and Part-time PhD student**, *Leibniz University Hannover*, Hannover, Germany, Dr.-Ing., PhD, Thesis title: "The Run-up of Long Waves – Laboratory-scaled geophysical Reproduction and Onshore Interaction with Macro-roughness Elements", Oral Defense: 11.03.2011 with honors ("summa cum laude").

2001/10 – 2007/04 **Study of Civil Engineering**, *Technical University of Dresden (German grade 1.5 "excellent")*, Dresden, Germany, Dipl.-Ing..

Field of Study: Hydraulic Engineering, Specialization: Geotechnics, Thesis title: "Influence of control structures to water level and discharge for extreme floods in the Mississippi delta region"

School and Training-on-the-job

1999/08 – 2001/01 **Job training, Apprenticeship**, *Carpentry Ross GmbH*, Neuenrade, Germany.

1989/08 – 1998/06 **Abitur**, *Burggymnasium Altena*, Altena, Germany.
(German A-levels)

Awards and Recognitions

2015 **Outstanding Reviewer 2015 - Journal of Waterway, Port, Coastal and Ocean Engineering**, *Awarded by the American Society of Civil Engineering ASCE, Reston*.
In recognition of outstanding service to the journal

2011 **Erich-Lackner-Award**, *Awarded by German Port Technology Association - HTG (professional association in hydraulic, port and coastal engineering)*, Würzburg.
In recognition of an outstanding PhD thesis

2007 **Hubert-Engels-Medal**, *Awarded by Gesellschaft der Förderer des Hubert-Engels-Institutes für Wasserbau und Technische Hydromechanik, TU Dresden e. V.*, Dresden.
In recognition of an outstanding diploma thesis

Awards of supervised students

2019 **Niklas Freund**, *Award of the Engineering chamber of Lower Saxony*.
Recognition of an outstanding Master thesis: "Morphodynamic effects of offshore breakwaters at Hörnum-Odde/Sylt"

2018 **Pauline Falkenrich**, *Braunschweiger Bürgerpreis*.
In recognition of outstanding academic performance and social engagement

2018 **Jacob Stolle**, *Canadian Society of Civil Engineers Conf.: Best Student Paper Award*.
Award in a competition of 30+ conference papers

Teaching

Lectures and Courses (selection)

Since 2018/10 **Hydromechanics (6 ECTS)**, *Technische Universität Braunschweig, Germany*, Responsible Lecturer (100%).
Participants: 330

Since 2018/10 **Coastal Engineering I (6 ECTS)**, *Technische Universität Braunschweig, Germany*, Responsible Lecturer (100%).
Participants: 35

Since 2018/01 **Coastal Engineering II (6 ECTS)**, *Technische Universität Braunschweig, Germany*, Responsible Lecturer (100%).
Participants: 42

- 2017 **Environmental Data Analysis (6 ECTS)**, *Leibniz Universität Hannover, Germany*, Lectures and Laboratory Exercises (25%).
Participants: 30
- 2017 **Hydro-power engineering (3 ECTS)**, *Leibniz Universität Hannover, Germany*, Lectures (100%).
Participants: 40
- 2010 – 2014 **Flows in Hydrosystems: River Engineering (3 ECTS)**, *Leibniz Universität Hannover, Germany*, Lectures (100%).
Participants: 280, in SS11, SS12, SS13
- 2012 – 2014 **River Hydraulics in Master programme "Water Resources and Environmental Management" (3 ECTS)**, *Leibniz Universität Hannover, Germany*, Lectures (100%).
Participants: 30 Studierende, in WS12/13, WS13/14
- 2013 – 2014 **Waterway Engineering (5 ECTS)**, *Leibniz Universität Hannover, Germany*, Lectures (100%).
Participants: 50, WS13/14
- Supervision of Post-doctoral Fellows**
Lifetime Summary: Supervision of Post-docs (2)
- 2019 – current **Saber Elsayed**, *Project: "ReFresh - Response of Coastal Barriers and Freshwater Aquifers to Extreme Storm Surges and Flooding"*, DFG-funding.
- 2018 – 2019 **Hisham Elsafti**, *Project: "Wasfi - Modelling wave-structure-foundation interaction for marine gravity structures"*, DFG-funding.
- Supervision or Co-supervision of PhD Thesis**
Lifetime Summary: Supervision of PhD Thesis (5)
- 2016 – 2019 **Jacob Stolle**, *Title: "Debris Hazard Assessment In Extreme Flooding Events"*, PhD, TU Braunschweig, in Cotutelle with University of Ottawa, Canada, Prof. Nistor. TU Braunschweig, Germany and University of Ottawa, Canada
- 2013 – present **Gabriel David**, *Draft title: "Numerical Simulation of Generation and Propagation of Ship Waves in the far Field and Interaction with Protected Embankments"*, PhD, Co-supervision (dependent) with Prof. Schlurmann. Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering, LUH
- 2012 – 2018 **Alexander Schendel**, *"Erosion stability of wide-graded sediment mixtures"*, PhD, Co-supervision (dependent) with Prof. Schlurmann. Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering, LUH
- 2010 – 2014 **Anna Zorndt**, *Impacts of Climate Change on Hydrodynamic Conditions and Salinity of the Weser Estuary*, PhD, Co-supervision (dependent) with Prof. Schlurmann. Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering, LUH
- 2009 – 2012 **Widjo Kongko**, *South Java Tsunami Model Using Highly Resolved Data and Probable Tsunamigenic Sources*, PhD, Co-supervision (dependent) with Prof. Schlurmann. Franzius-Institute for Hydraulic and Coastal Engineering, LUH

Academic and Administrative Experience

Editorial Board Membership and Special Issue Guest Editorships

- Since 2020/01 **Virtual Special Issue: Open Ocean Aquac. Techn.**, *Applied Ocean Research, Elsevier, The Netherlands.*

Since 2018/03 **Applied Ocean Research, Elsevier, The Netherlands.**

Reviewer Activity

A summary of journal-related activities can be found through [Publons](#)

2019/11 **National Research Center, Ocean, Coastal and River Engineering Facilities, Ottawa, Canada.**

International External Reviewer

2016/03 – 2018/09 **Member of User Selection Committee, European Union funding "HYDRALAB+ Adaptation for Climate Change".**

Since 2011/05 **Reviewer - Funding Agencies, German Research Foundation (DFG) ■ Alexander von Humboldt Foundation (AvH) ■ Nantes Excellence Trajectory (NEXT) – Integrative Research Clusters, France ■ Natural Sciences and Engineering Research Council of Canada ■ National Commission for Scientific and Technological Research (CONICYT), Chile ■ Oregon Sea Grant - NOAA Sea Grant College Program, USA.**

Since 2010/04 **Reviewer, Journal of Geophysical Research: Oceans, Wiley ■ Hydrologie und Wasserwirtschaft, Springer ■ Mathematical Problems in Engineering, Hindawi ■ Estuarine, Coastal and Shelf Science, Elsevier ■ Water, MDPI ■ Progress in Oceanography, Elsevier ■ International Journal of Disaster Risk Reduction, Elsevier ■ Coastal Engineering Journal, World Scientific ■ Water Resources Research, American Geophysical Union ■ Journal of Hydraulic Research, Taylor & Francis ■ International Journal of Environmental Research and Public Health, MDPI ■ Journal Hydrol. Earth Syst. Sci., Copernicus ■ Coastal Engineering, Elsevier ■ Journal of Fluids and Structures, Elsevier ■ Safety, MDPI ■ Continental Shelf Research, Elsevier ■ Journal of Waterway, Port, Coastal, and Ocean Engineering, ASCE ■ Computations, MDPI ■ Maritime Engineering, Telford ■ Natural Hazards, Springer ■ Pacific-Asia Offshore Mechanics Symposium - PACOMS ■ Algorithms, MDPI ■ Ocean Engineering, Elsevier ■ Natural Hazards and Earth System Sciences - NHESS, Copernicus ■ International Journal of Offshore and Polar Engineering, ISOPE ■ Journal of Hydroinformatics, IAHR-IWA-IAHS ■ International Conference on Offshore and Polar Engineering, ISOPE.**

PhD Thesis External Examiner

Lifetime Summary: (5)

2019/05 **Maximilian Streicher, Thesis title: Loads induced by overtopping bores on vertical walls at the end of sea facing promenades – A laboratory study, Ghent University, Belgium, Supervisor: Andreas Kortenhaus.**

2019/01 **Ankit Aggarwal, Thesis title: 3D Numerical Modelling of Non-Linear And Breaking Wave Forces On Offshore Wind Turbine Substructures, Norwegian University of Science and Technology, Norway, Supervisor: Hans Bihs.**

2018/06 **Alexander Schendel, Thesis title: "Wave-current-induced scouring processes and protection at offshore structures", Leibniz Universität Hannover, Germany, Supervisor: Prof. Torsten Schlurmann.**

2017/03 **Heng Lu, Thesis title: Generation of Very Long Waves in Laboratory for Tsunamis Research, University of Dundee, Scotland, Supervisor: Prof. Yong Sung Park.**

2017/12 **Juan David Osorio Cano, Thesis title: Quantification and modelling of wave energy dissipation over submerged reefs, Universidad Nacional de Colombia, Colombia, Supervisor: Prof. Andres Osorio.**

Administrative Experience

- 2020/01 – current **Council Member**, *University Council for International Affairs*.
Technische Universität Braunschweig, Germany
- 2019/02 – current **Committee Member**, *Faculty Committee for Structural Development*.
Technische Universität Braunschweig, Germany
- 2013/06 – 2014/06 **Committee Member**, *Appointment Committee for Professorship "Sanitary Engineering"*.
Leibniz Universität Hannover, Germany
- 2013/06 – 2014/06 **Committee Member**, *Appointment Committee for Professorship "Safety and Risk Assessment"*.
Leibniz Universität Hannover, Germany
- 2012/05 – 2013/12 **Member**, *Structural and Organizational Committee of Faculty of Civil Engineering and Geodetic Science*.
- 2011/05 – 2014/06 **IT Committee**, *Civil Engineering and Geodetic Science Faculty*.
Leibniz Universität Hannover, Germany

Conference Organization

- 2019 **Chair**, *Coastal Structures 2019*, Coastal Structures conference, COPRI/ASCE, Hannover, Germany, Sept. 30–Oct. 2, 2019.
- 2018 **Member of Scientific Committee**, *CoastLab18*, 7th International Conference on the Application of Physical Modelling in Coastal and Port Engineering and Science, IAHR, Santander, Spain, May 22-26, 2018.
- 2018 **Member of Scientific Committee**, *ISHS2018*, 7th International Symposium on Hydraulic Structures, IAHR, Aachen, Germany, May 15-18, 2018.
- 2017 **Member of Scientific Committee**, *SCACR2017*, International Short Course and Conference on Applied Coastal Research 2017, Santander, Spain, September 3-6, 2017.
- 2016 **Member of Local Organizing Committee**, *CoastLab16*, 6th International Conference on Physical Modelling in Coastal Engineering, IAHR, Ottawa, Canada, May 10-13, 2016.
- 2014 **Member of Local Organizing Committee**, 7th Chinese-German Joint Symposium on Hydraulic and Ocean Engineering, Hannover, Germany, Sept. 8-12, 2014.
- 2014 **Session Organizer and Member Technical Programme Committee**, 24th International Ocean and Polar (Arctic) Engineering Conference, Busan, Korea, June 15-20, 2014.
- 2013 **Session Organizer and Member Technical Programme Committee**, 23rd International Ocean and Polar (Arctic) Engineering Conference, Anchorage, USA, June 30-July 5, 2013.

Association Memberships

- Since 2017 American Society of Civil Engineers (ASCE)
- Since 2016 International Association for Hydro-Environment Engineering and Research (IAHR)
- 2013 – 2016 European Geoscience Union (EGU)
- Since 2011 World Association for Waterborne Transport Infrastructure (PIANC)
- Since 2007 German Port Technology Association (HTG)
- Since 2007 Gesellschaft der Förderer des Hubert-Engels-Instituts an der TU Dresden e.V.

Since 2007 Gesellschaft der Förderer des Franzius-Instituts e.V.

International Experience and Scholarships

- 2014/07 – 2017/06 **Fellowship**, *Marie Curie International Outgoing Fellowship, Research Executive Agency, EU.*
- 2014/08 **Scholarship**, *German Academic Exchange Service Conference Scholarship to International Conference on Coastal Engineering, Seoul, South Korea.*

Skills and Qualifications

Languages

German	Mother Tongue
English	Fluent
French	Basic Level

Computer Knowledge

Hydraulics	DualSPHYSICS, Flow-3D, OpenFOAM, Anuga, HEC-RAS, SMS, Cormix
Computing	MatLab, MathCad
E-Learning	Integriertes Lern-, Informations- und Arbeitskooperations-System (ILIAS)
CAD/CAM	AutoCAD, Nemetschek, Blender, Salome
GIS	ArcGIS, GRASS
Typesetting	L ^A T _E X
Office software	MS Office (Word, Excel, etc.)

Publications

Life-time summary

H-index from Scopus (12) and Google Scholar (i10=26), Books or book chapters (7), Journal publications (37), Work in preparation (7), Peer-reviewed conferences (37), Other conference contributions (26)

Books or book chapters

- [B7] O. Lojek, L.-C. Dempwolff, and N. Goseberg. “Der Rhein als europäische Verkehrsachse III”. In: ed. by M. Mirschenz and S. Zinn. *Bonner Beiträge zur vor- und frühgeschichtlichen Archäologie* 22. Bonn: Jan Bemann and Michael Schmauder, 2019. Chap. Hydrodynamische Simulation von Strömungsprozessen im Nahfeld des Römerhafens der Colonia Ulpia Traiana, pp. 109–120. ISBN: 3-936490-22-0.
- [B6] B. H. Buck, G. Krause, B. Pogoda, B. Grote, L. Wever, N. Goseberg, M. F. Schupp, A. Mochtak, and D. Czybulka. “The German Case Study: Pioneer Projects of Aquaculture-Wind Farm Multi-uses”. In: ed. by B. Buck and R. Langan. Springer International Publishing, Mar. 2017. Chap. Aquaculture Perspective of Multi-Use Sites in the Open Ocean: The Untapped Potential for Marine Resources in the Anthropocene, pp. 253–354.
- [B5] N. Goseberg, M. Chambers, K. Haesmann, D. Fredriksson, A. Fredheim, and T. Schlurmann. “Technological Approaches to Longline- and Cage-Based Aquaculture in Open Ocean Environments”. In: ed. by B. Buck and R. Langan. Springer, Mar. 2017.

- Chap. Aquaculture Perspective of Multi-Use Sites in the Open Ocean: The Untapped Potential for Marine Resources in the Anthropocene, pp. 71–95.
- [B4] N. Goseberg. *Advances in Laboratory Measurements for Hydraulic and Coastal Engineering*. Habilitation Thesis. Hannover, Germany: Ludwig-Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering, Leibniz Universität Hannover, Aug. 2017.
- [B3] J. Stolle, N. Goseberg, I. Nistor, and T. Shibayama. “Debris Impacts and Effects on Structures”. In: ed. by Y. C. Kim. Expanded. World Scientific, 2017. Chap. Handbook of Coastal and Ocean Engineering, pp. 457–479.
- [B2] N. Goseberg, G. Lämmel, H. Taubenböck, N. Setiadi, J. Birkmann, and T. Schlurmann. “The Last-Mile Evacuation project: A multi-disciplinary approach to evacuation planning and risk reduction in tsunami-threatened coastal areas”. In: ed. by F. Wenzel and J. Zschau. *Advanced Technologies in Earth Sciences*. ISBN: 3642122329. Springer, 2013. Chap. Early Warning for Geological Disasters: Scientific Methods and Current Practice.
- [B1] N. Goseberg. *The Run-up of Long Wave – Laboratory-scaled Geophysical Reproduction and Onshore Interaction with Macro-Roughness Elements*. 97. Hannover, Germany: Leibniz University Hannover, Report of Franzius-Institute for Hydraulics, Waterways and Coastal Engineering, 2011.
- Journal publications: all**
- [J37] J. Stolle, C. Krautwald, I. Robertson, H. Achiari, T. Mikami, R. Nakamura, T. Takabatake, Y. Nishida, T. Shibayama, M. Esteban, I. Nistor, and N. Goseberg. “Engineering lessons from the 28 September 2018 Indonesian tsunami: Debris loading”. In: *Canadian Journal of Civil Engineering* (Nov. 2020), pp. 1–12. ISSN: 0315-1468. URL: <https://doi.org/10.1139/cjce-2019-0049>.
- [J36] J. Stolle, I. Nistor, N. Goseberg, and E. Petriu. “Multiple Debris Impact Loads in Extreme Hydrodynamic Conditions”. In: *Journal of Waterway, Port, Coastal and Ocean Engineering* 146.04019038 (2020).
- [J35] J. Stolle, I. Nistor, N. Goseberg, and E. Petriu. “Development of a probabilistic framework for debris transport and hazard assessment in tsunami-like flow conditions”. In: *Journal of Waterway, Port, Coastal, and Ocean Engineering* forthcoming (2020).
- [J34] B. Ghodoosipour, J. Stolle, I. Nistor, A. Mohammadian, and N. Goseberg. “Experimental Study on Extreme Hydrodynamic Loading on Pipelines Part 2: Induced Force Analysis”. In: *Journal of Marine Science and Engineering* 7.8 (2019). ISSN: 2077-1312.
- [J33] B. Ghodoosipour, J. Stolle, I. Nistor, A. Mohammadian, and N. Goseberg. “Experimental Study on Extreme Hydrodynamic Loading on Pipelines. Part 1: Flow Hydrodynamics”. In: *Journal of Marine Science and Engineering* 7.8 (2019). ISSN: 2077-1312.
- [J32] von Häfen H., N. Goseberg, J. Stolle, and I. Nistor. “Gate-Opening Criteria for Generating Dam-Break Waves”. In: *Journal of Hydraulic Engineering* 145.3 (Jan. 2019), p. 04019002.

- [J31] J. Landmann, T. Ongsiek, N. Goseberg, K. Heasman, B. H. Buck, J.-A. Paffenholz, and A. Hildebrandt. "Physical Modelling of Blue Mussel Dropper Lines for the Development of Surrogates and Hydrodynamic Coefficients". In: *Journal of Marine Science and Engineering* 7.3 (2019). ISSN: 2077-1312.
- [J30] J. Lang, P. Alho, E. Kasvi, N. Goseberg, and J. Winsemann. "Impact of Middle Pleistocene (Saalian) glacial lake-outburst floods on the meltwater-drainage pathways in northern central Europe: Insights from 2D numerical flood simulation". In: *Quaternary Science Reviews* 209 (2019), pp. 82–99. ISSN: 0277-3791. URL: <http://www.sciencedirect.com/science/article/pii/S027737911830800X>.
- [J29] J. Stolle, N. Goseberg, I. Nistor, and E. Petriu. "Debris impact forces on flexible structures in extreme hydrodynamic conditions". In: *Journal of Fluids and Structures* 84 (Jan. 2019), pp. 391–407. ISSN: 0889-9746.
- [J28] J. Stolle, T. Takabatake, G. Hamano, H. Ishii, K. Imura, T. Shibayama, I. Nistor, N. Goseberg, and E. Petriu. "Debris transport over a sloped surface in tsunami-like flow conditions". In: *Coastal Engineering Journal* 61.2 (2019), pp. 241–255.
- [J27] C. Derschum, I. Nistor, J. Stolle, and N. Goseberg. "Debris impact under extreme hydrodynamic conditions part 1: Hydrodynamics and impact geometry". In: *Coastal Engineering* 141 (2018), pp. 24–35.
- [J26] A. Schendel, N. Goseberg, and T. Schlurmann. "Influence of reversing currents on the erosion stability and scour protection potential of wide-graded grain material". In: *International Journal of Sediment Research* 33.1 (Mar. 2018), pp. 68–83.
- [J25] A. Schendel, A. Hildebrandt, N. Goseberg, and T. Schlurmann. "Processes and evolution of scour around a monopile induced by tidal currents". In: *Coastal Engineering* 139 (Sept. 2018), pp. 65–84.
- [J24] J. Stolle, C. Derschum, N. Goseberg, I. Nistor, and E. Petriu. "Debris impact under extreme hydrodynamic conditions part 2: Impact force responses for non-rigid debris collisions". In: *Coastal Engineering* 141 (2018), pp. 107–118. ISSN: 0378-3839.
- [J23] J. Stolle, B. Ghodoosipour, C. Derschum, I. Nistor, E. Petriu, and N. Goseberg. "Swing Gate Generated Dam-break Waves". In: *Journal of Hydraulic Research* (2018).
- [J22] J. Stolle, N. Goseberg, E. Petriu, and I. Nistor. "Probabilistic Investigation and Risk Assessment of Debris Transport in Extreme Hydrodynamic Conditions". In: *Journal of Waterways, Port, Coastal, and Ocean Engineering* 144.1 (2018), pp. 04017039–1.
- [J21] J. Stolle, T. Takabatake, I. Nistor, T. Mikami, S. Nishizaki, G. Hamano, H. Ishii, T. Shibayama, N. Goseberg, and E. Petriu. "Experimental investigation of debris damming loads under transient supercritical flow conditions". In: *Coastal Engineering* 139 (Sept. 2018), pp. 16–31.
- [J20] G. David, V. Röber, N. Goseberg, and T. Schlurmann. "Generation and Propagation of Ship-borne Waves - Solutions from a Boussinesq-type Model". In: *Coastal Engineering* 127 (Sept. 2017), pp. 170–187.
- [J19] I. Nistor, N. Goseberg, and J. Stolle. "Tsunami-Driven Debris Motion and Loads: A Critical Review". In: *Frontiers in Build Environment* 3.2 (2017). Earthquake Engineering.

- [J18] J. Stolle, I. Nistor, N. Goseberg, T. Mikami, and T. Shibayama. "Entrainment and Transport Dynamics of Debris in Extreme Hydrodynamic Conditions". In: *Coastal Engineering Journal* 59.3 (2017), p. 1750011.
- [J17] J. Stolle, T. Takabatake, T. Mikami, T. Shibayama, N. Goseberg, I. Nistor, and E. Petriu. "Experimental Investigation of Debris-Induced Loading in Tsunami-Like Flood Events". In: *geosciences* 7.3 (2017), p. 74. ISSN: 2076-3263.
- [J16] U. Drähne, N. Goseberg, S. Vater, U. Beisiegel, and J. Behrens. "An Experimental and Numerical Study of Analytical Solutions for Tsunami Run-Up on a Plane Beach". In: *Journal of Marine Science and Engineering* 4.1 (2016).
- [J15] N. Goseberg, I. Nistor, T. Mikami, T. Shibayama, and J. Stolle. "Nonintrusive Spatiotemporal Smart debris Tracking in Turbulent Flows with Application to Debris-Laden Tsunami Inundation". In: *Journal of Hydraulic Engineering* (2016).
- [J14] N. Goseberg, J. Stolle, I. Nistor, and T. Shibayama. "Experimental analysis of debris motion due the obstruction from fixed obstacles in tsunami-like flow conditions". In: *Coast Eng* 118 (2016), pp. 35–49.
- [J13] I. Nistor, N. Goseberg, T. Mikami, T. Shibayama, J. Stolle, R. Nakamura, and S. Matsuba. "Experimental Investigations of Debris Dynamics over a Horizontal Plane". In: *Journal of Waterway, Port, Coastal, and Ocean Engineering* 04016022 (2016).
- [J12] J. Stolle, I. Nistor, and N. Goseberg. "Optical Tracking of Floating Shipping Containers in High-Velocity Flow". In: *Coastal Engineering Journal* 58.1650005 (2016).
- [J11] S. Wöbse, N. Kerpen, T. Schlurmann, and N. Goseberg. "Stabilität von modularen Deckwerksmatten aus Normal- und Schwerbeton unter Wellenlasten". In: *Wasserwirtschaft* 106.10 (2016), pp. 43–49. ISSN: 00430978.
- [J10] G. C. Bremm, N. Goseberg, T. Schlurmann, and I. Nistor. "Long Wave Flow Interaction with a Single Square Structure on a Sloping Beach". In: *Journal of Marine Science and Engineering* 3.3 (2015), p. 821. ISSN: 2077-1312.
- [J9] A. Schendel, N. Goseberg, and T. Schlurmann. "Erosion Stability of Wide-Graded Quarry-Stone Material under Unidirectional Current". In: *Journal of Waterways, Port, Coastal, and Ocean Engineering* 04015023 (2015).
- [J8] A. Schendel, N. Goseberg, and T. Schlurmann. "Experimental Study on the Erosion Stability of Coarse Grain Materials under Waves". In: *Journal of Marine Science and Technology* 23.6 (2015), pp. 937–942.
- [J7] J. Winsemann, P. Alho, L. Laamanen, N. Goseberg, J. Lang, and J. Klostermann. "Flow dynamics, sedimentation and erosion of glacial lake outburst floods along the Middle Pleistocene Scandinavian ice sheet (northern Central Europe)". In: *Boreas* 45.2 (2015), pp. 260–283.
- [J6] O. Lojek, K. Krämer, A. Zorndt, N. Goseberg, and T. Schlurmann. "Velocity and Turbulence Measurements at the Ems Barrage". In: *Die Küste* 81 (2014), pp. 55–68.
- [J5] N. Goseberg. "Reduction of maximum tsunami run-up due to the interaction with beachfront development - application of single sinusoidal waves". In: *Natural Hazards and Earth System Science* 13.11 (2013), pp. 2991–3010.

- [J4] N. Goseberg, A. Wurpts, and T. Schlurmann. "Laboratory-scale generation of tsunami and long waves". In: *Coastal Engineering* 79 (2013), pp. 57–74.
- [J3] H. Taubenböck, N. Goseberg, G. Lämmel, N. Setiadi, T. Schlurmann, K. Nagel, F. Siegert, J. Birkmann, K.-P. Traub, S. Dech, V. Keuck, F. Lehmann, G. Strunz, and H. Klüpfel. "Risk reduction at the "Last-Mile": An attempt to turn science into action by the example of Padang, Indonesia". In: *Natural Hazards* 65.1 (2013), pp. 915–945.
- [J2] T. Schlurmann and N. Goseberg. "Enhanced hazard mapping on a medium-resolved numerical grid for the city of Padang, West Sumatra". In: *J. of Ship Tech.* 5.2 (July 2009), pp. 13–21.
- [J1] H. Taubenböck, N. Goseberg, N. Setiadi, G. Lämmel, F. Moder, M. Oczipka, H. Klüpfel, R. Wahl, T. Schlurmann, G. Strunz, J. Birkmann, K. Nagel, F. Siegert, F. Lehmann, S. Dech, A. Gress, and R. Klein. "Last-Mile preparation to a potential disaster - Interdisciplinary approach towards tsunami early warning and an evacuation information system for the coastal city of Padang, Indonesia". In: *Nat Hazard Earth Sys Sci* 9.4 (2009), pp. 1509–1528.

Peer-reviewed conferences

- [C37] H. Elsafti, M. Almaghraby, M. Iskander, and N. Goseberg. "Hydraulic performance of innovative seashell-shaped artificial armor units for coastal protections (Seashell-breakwater)". In: *Proceedings of the Coastal Structures Conference 2019*. Hannover, Germany, Oct. 2019.
- [C36] J. Landmann, R. Santjer, R. Gieschen, N. Goseberg, and A. Hildebrandt. "Laboratory tests on wave forces and accelerations of a three-bay long-line aquaculture systems in offshore conditions". In: *International Society of Offshore and Polar Engineers: The 29th International Ocean and Polar Engineering Conference*. Honolulu, Hawaii, USA, 2019.
- [C35] J. Stolle, I. Nistor, N. Goseberg, and E. Petriu. "Probabilistic analysis of debris transport in tsunami-like events". In: *Proceedings of the Coastal Structures Conference 2019*. Ed. by N. Goseberg and T. Schlurmann. 2019.
- [C34] J. Stolle, I. Nistor, N. Goseberg, and E. Petriu. "Probabilistic investigation of debris impact forces during extreme hydraulic events". In: *E-proceedings of the 38th IAHR World Congress*. Panama City, Panama, Sept. 2019.
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Other conference contributions

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Technical Reports (Selection)

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- [R3] B. Buck, J. Dubois, M. Ebeling, B. Franz, N. Goseberg, G. Krause, P. Schaumann, T. Schlurmann, J. Schmidt, and L. Wefer. *Multiple Usage and Co-Management of offshore wind energy structures: Marine aquaculture and offshore wind parks - Open Ocean Multi-Use (OOMU)*. Tech. rep. Funding by German Ministry for Environment (BMU) - Ref. 325206. IMAGE GmbH, Germany, 2012, p. 255.
- [R2] N. Kerpen, N. Horstmann, N. Goseberg, and T. Schlurmann. *Freeboard design at the western shore of Pan No. 5 – Phase 2b - Freeboard assessment study*. Progress report 727. Industry funding by Dead Sea Works Ltd. Franzius-Institute for Hydraulics, Waterways and Coastal Engineering, 2012.
- [R1] N. Goseberg, T. Schlurmann, J. Birkmann, N. Setiadi, H. Taubenböck, G. Strunz, S. Dech, G. Lämmel, H. Klüpfel, K. Nagel, F. Moder, M. Oczipka, and F. Siegert. *Numerical Last-Mile Tsunami Early Warning and Evacuation Information System*. Project report 714. Geotechnologien, German Federal Ministry of Education and Research BMBF, grant no. 03G0666A-H. Franzius-Institute, 2010.

Talks and invited talks (28 in total, 6 selected talks)

- 2019 The future of experiments in coastal engineering. Ocean Week 2019 – Oceans in Change, Radisson Blue, Trondheim, Norway, Organizer NTNU, Norway, May 6-8
- 2019 Beyond rigidity – Collapsing structures in experimental hydraulics. Forum Experiment! conference 2019, Herrenhausen Palace, Hannover, Germany, Organizer Volkswagen Stiftung, Nov. 26-27
- 2018 Large-scale physical model testing of coastal environments: past and future, International Conference on Celebration of HIGH-Center, Rural Research Institute, Korea Rural Community Corporation, Gyeonggi-do, Republic of South Korea
- 2017 Modelling onshore tsunami loads and effects, Long Waves and Tsunamis Workshop, Discovery Point, Dundee, Scotland
- 2015 "Smart" debris location tracking based on RFID technique, Coastal Structures and Solutions to Coastal Disasters conference, Boston, USA
- 2013 Untersuchung ästuardynamischer Prozesse mit Hilfe numerischer Modellierung, Einladung zum Dialog Küstenforschung, Küstennutzung und Küstenschutz, Hamburg, Germany
- 2012 The potential co-use of aquaculture and offshore wind energy structures: an engineering perspective, Aquaculture Forum Bremerhaven, Workshop I "Open Ocean Aquaculture Development", Bremerhaven, Germany

Outreach Activities - Selection

- 2018/08 Zeit-Wissen Podcast: "'Woher weißt Du das? / Nachhaltigkeit'", 30.08.2018, Zeit Verlag

- 2018/04 Radio feature, NDR Info - Logo - Das Wissenschaftsmagazin, Title "Orkane und Tornados im Klimawandel. Welche Auswirkungen hat dies für Norddeutschland?", 20.04.2018, NDF Info
- 2011/08 TV interview and contribution to science film on Aquaculture in Offshore Wind Parks 'First German Television' - *W wie Wissen*

Contribution to research projects (selection)

Life-time summary: 36 in total, 14 selected

- 2020/07 – 2022/06 **Nulimas - Numerical Modelling of Liquefaction Around Marine Structures**, *Commissioned by: Federal Ministry of Economy and Energy Affairs*, Role: Acquisition, PI, Coordination.
- 2020/04 – 2023/03 **Augmenting grid stability through Low-head Pumped Hydro Energy Utilization & Storage**, *Commissioned by: European Commissions Research Agency in H2020*, Role: Acquisition, Co-PI.
- 2020/01 – 2024/12 **Gute Küste Niedersachsen - Real-world laboratories investigations towards ecosystem-wise coastal protection**, *Commissioned by: Lower Saxonian Ministry of Science and Culture*, Role: Acquisition, Co-PI.
- 2019/12 – 2022/11 **EnviSim4Mare - Test bed development and investigation on the influence of marine growth on drag and inertia coefficients of offshore wind structures**, *Commissioned by: Federal Ministry of Economy and Energy Affairs*, Role: Acquisition, PI, Coordination.
- 2019/09 – 2022/08 **BIVA-WATT - Roughness effects of Oyster reefs and blue mussel beds on waves and currents**, *Commissioned by: Federal Ministry of Science and Education*, Role: Acquisition, PI, Coordination.
- 2018/04 – 2019/10 **Beyond rigidity - Collapsing structures in experimental hydraulics**, *Commissioned by: Volkswagen Foundation through their highly-competitive "Experiment"-funds*, Role: Acquisition, PI, Coordination.
- 2018/01 – 2019/12 **Large-scale research facility: Long-wave generation device, INST398192031**, *Commissioned by: German Research Foundation, DFG*.
Role: Acquisition, Project management, PI
- 2017/07 – 2018/06 **Large Scale Testing a Solution for the Afsluitdijk, The Netherlands**, *Commissioned by: Consortium Corneel*, Role: Acquisition, Project management, PI.
- 2017/07 – 2017/12 **Stability Testing for Armor Layer at the Benin Coast**, *Commissioned by: Inros Lackner SE, Benin*.
Role: Acquisition, Project management, PI
- 2017/01 – 2022/12 **Enabling Open Ocean Shellfish Aquaculture**, *Commissioned by: Cawthron NZ, Ministry of Business Innovation & Employment, New Zealand*, Role: Acquisition, Project management, PI.
- 2014/07 – 2017/06 **Spatiotemporal Distribution and Structural impact Loading due to Artificial Debris Objects in Violent Flows (impLOADis)**, *Commissioned by: European Union, Research Executive Agency*, Role: Acquisition, Project management, Execution.
- 2014/02 – 2014/07 **Physical model tests of an innovative armor layer mattress made of iron-silicate concrete blocks**, *Commissioned by: Peute GmbH*.
Role: Acquisition, Project management

- 2013/09 – 2014/03 **Adaptation of an existing Boussinesq wave model (Boussinesq Ocean Surf Zone model) to simulate ship-induced waves around a flow guide wall**, *Commissioned by: Hamburg Port Authority*, Rolle: Einwerbung, Projektleitung.
- 2013/05 – 2013/06 **In-situ current velocity measurements with Acoustic Doppler Current Profiler (ADCP), Jade estuary, Germany**, *Commissioned by: IMS Ingenieurgesellschaft mbH/Colcrete van Essen GmbH*, Role: Acquisition, Project leader.
- 2013/05 – 2013/11 **Hydro-morphodynamic simulation of sedimentation in a Northwestern German harbor, Dagebüll, Germany**, *Commissioned by: Ingenieurbüro Mohn GmbH*, Role: Acquisition, Project leader.
- 2013/02 – 2013/07 **Proposal to scientifically assess the flood risk profile and future design storm surge levels of Gansevoort project of Whitney Museum of American Art (WMAA), NYC, USA**, *Commissioned by: WTM Engineers GmbH*, Role: Co-Investiator; Execution.

Braunschweig, February 28, 2020



(Nils Goseberg)