

CV

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Educational and professional background

- **Managing Director and Professor** of *Ludwig-Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering (LuFI)*, Leibniz Universität Hannover (LUH), since 03/2007 (full W3-Professor)
- **Deputy Managing Director** *Coastal Research Centre (FZK)* as Central Joint Research Institution of the Leibniz Universität Hannover (LUH) and Technical Universität Braunschweig (TUBS), since 08/2018
- **Project Director and Senior Academic Advisor** to the Director of the Institute for Environment and Human Security (UNU-EHS), Bonn, United Nations University (UNU), Tokyo, 03/2007-02/2010
- **Head of Section** for Coastal Hazards and Risks, Institute for Environment and Human Security (UNU-EHS), Bonn, United Nations University (UNU), Tokyo, 07/2005-02/2007
- **Postdoctoral Researcher**, Berg. Univ. Wuppertal (BUW), Germany, 07/1999-06/2005 with award of Habilitation degree, Berg. Univ. Wuppertal (BUW), Germany, Final degree: PD Dr.-Ing. habil., in 05/2005
- **Research Associate** and Phd student, Bergische Universität Wuppertal (BUW), Germany, 12/95-06/99 with PhD degree, Berg. Univ. Wuppertal (BUW), Germany, Final degree: Dr.-Ing., in 07/1999
- Studies of Civil and Env. Eng., Berg. Univ. Wuppertal (BUW), Final degree: Dipl.-Ing., 10/1991-11/1995
- Abitur, Remscheid, Germany in 06/1991

Current appointments in professional associations and academic bodies & councils

- Appointed **Member of the Zukunftsforum Ozean** of *German Marine Research Consortium* (KDM)
- Appointed **Member of the Executive Board** of *German Marine Research Consortium* (KDM)
- Appointed **Member of the Scientific Board** of *Fed. Waterways Engineering and Research Institute* (BAW),
- Appointed **Member of the Executive Board** *German Port Technology Association* (HTG)
- **Editorial Board** of *Journal of Marine Science and Engineering* (JMSE), MDPI, Section Coastal Engineering
- **Editorial Board** of *Advances in Data Science and Adaptive Analysis*, Wiley Scientific
- Guest Professorship at *National Taiwan Ocean University*, Keelung, Taiwan, ROC
- **Scientific Board** *German Committee on Disaster Reduction* (DKKV), Bonn
- Appointed Member of Executive Boards of the *Victor-Rizkallah Stiftung* and *Dr-Friedrich-Lehner Stiftung*, Leibniz Universitätsgesellschaft Hannover, Germany

Past appointments in professional associations and academic bodies & councils

- **Dean of the Faculty for Civil Engineering and Geodetic Sciences**, Leibniz Universität Hannover, Germany, term: 04/2013-09/2015
- **Deputy Dean of the Faculty for Civil Engineering and Geodetic Sciences**, Leibniz Universität Hannover, Germany, 1st term 04/2011-03/2013 and 2nd term 10/2015-09/2017
- Appointed member of the **Academic Senate** of the Leibniz Universität Hannover, terms: 10/2011-09/2013
- Appointed **Member Scientific Board** of *Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research* (HZG), Germany, Helmholtz Association of German Research Centers (HGF), 1st term 09/2009-08/2013 and 2nd term 09/2013-08/2017
- Head of **Scientific Board** of *German Committee on Disaster Reduction* (DKKV), Bonn, 04/2011-03/2013

Fields of research and professional expertise

- Hydraulic Engineering, Disaster Risk Reduction (DRR) and Vulnerability Assessment
- Flood Risk and Integrated Coastal Zone Management under SLR and its cascading effects
- Coastal Erosion Processes; Coastal Engineering
- Renewable Energy, Port & Harbor Design, Marine Environments and Impacts

Teaching experiences (teaching activity & examination responsibility listed in *Modulhandbücher* FBG, 2019)

- Projekte des Bauingenieurwesens (BSc Bauingenieurwesen, 4SWS, SoSe)
- Wasserbau und Küsteningenieurwesen (BSc Bauingenieurwesen, 4SWS, WiSe)
- Energiewasserbau (MSc Bauingenieurwesen, 2SWS, WiSe)
- Wasserbau und Verkehrswasserbau (MSc Bauingenieurwesen, 4SWS, WiSe)
- Küsten und Ästuaringenieurwesen (MSc Bauingenieurwesen, 4SWS, SoSe) sowie Grundlagen der Wellentheorie und Seegangsanalyse (MSc Windenergie-Ingenieurwesen, 2SWS, SoSe)
- See- und Hafengebäudebau (MSc Bauingenieurwesen, 4SWS, SoSe)
- Environmental Hydraulics (MSc Water Res. and Env. Mngt., 2SWS, SoSe, jointly with Prof. Insa Neuweiler)
- Hydropower Engineering (MSc Water Res. and Env. Mngt., 2SWS, WiSe, jointly with Prof. Achmus)
- Environmental and Coastal Management (MSc Water Res. and Env. Mngt., 4SWS, WiSe)

SCOPUS author profile: Torsten Schlurmann (Feb 2nd, 2021)

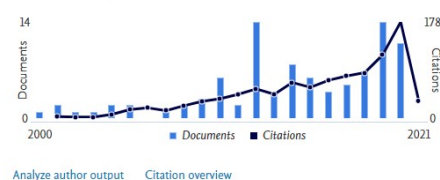
Metrics overview

96
Documents by author

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Document & citation trends



Most contributed Topics 2015–2019

Bridge Piers; Scouring; Abutments (Bridge)
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Floating Breakwaters; Overtopping; Eigenfunction Expansion
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Wave Attenuation; Coastal Protection; Storm Surges
[3 documents](#)

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96 Documents | Cited by 802 Documents | 0 Preprints | 142 Co-Authors | Topics

Manuscripts in review:

- David G., Kohl, N., Casella, E., Rovere, A., Ballesteros, P., **Schlurmann, T.**, 2020. Structure-from-Motion on shallow reefs and beaches: potential and limitations of consumer-grade drones to reconstruct topography and bathymetry. *Coral Reefs*, Springer (in review)
- David, G., Hennig, A., Ratter, B.M.W., Roeber, V., **Schlurmann, T.**, 2020. Climate change induced effects or maldevelopment: small islands and conflicting attribution of root causes. *Nature Communications*, Springer Nature Limited (in review). Pre-print available: <https://doi.org/10.31223/X5888P>
- Taphorn, M., Villanueva, R., Paul, M., Visscher, J., **Schlurmann, T.**, 2020. Flow field and wake structure characteristics imposed by flexible, single seagrass surrogates. *Journal of Ecohydraulics* (in review)
- Villanueva, R., Thom, M., Visscher, J., Paul, M., **Schlurmann, T.**, 2020. Wake length of an artificial seagrass meadow: a study of shelter and feasibility for restoration. *Journal of Ecohydraulics* (in review)

2020 to 2021 – accepted and published

- Staudt, F.; Gijsman, R.; Ganal, C.; Mielck, F.; Wolbring, J.; Hass, H.C.; Goseberg, N.; Schüttrumpf, H.; **Schlurmann, T.** and S. Schimmels, 2021. The sustainability of beach nourishments: A review of nourishment and environmental monitoring practice. *Journal of Coastal Conservation*, Springer ([accepted for publication](#)) Pre-print available: <https://doi.org/10.31223/osf.io/knrw>
- Gijsman, R., Visscher, J. and **T. Schlurmann**, 2021. Observations on long-term sandbar behaviour along a large-scale curved coastline. *Earth Surface Processes and Landforms*, Wiley ([accepted for publication](#))
- Scheiber, L., Lojek, O., Götschenberg, A., Visscher, J. and **T. Schlurmann**, 2021. Spatio-Temporal Variation of Subaqueous Dunes in the Outer Jade Navigation Channel. *Earth Surface Processes and Landforms (ESPL)*, Wiley ([accepted for publication](#))
- Kerpen, N.B., **Schlurmann, T.**, Schendel, A., Gundlach, J., Marquard, D., Hüpgen, M., 2020. Wave-Induced Distribution of Microplastic in the Surf Zone. *Frontiers in Marine Science*, 7, art. no. 590565, <https://DOI:10.3389/fmars.2020.590565>
- David, C.G., **Schlurmann, T.**, 2020. Hydrodynamic Drivers and Morphological Responses on Small Coral Islands—The Thoondu Spit on Fuvahmulah in the Maldives, *Frontiers in Marine Science*, 7, art. no. 538675 <https://DOI:10.3389/fmars.2020.538675>
- Kuenzer, C., Heimhuber, V., Day, J., Varis, O., Renaud, F., Gaohuan, L., Tuan, V.Q., **Schlurmann, T.**, Glamore, W., 2020. Profiling resilience and adaptation in mega deltas: A comparative assessment of the Mekong, Yellow, Yangtze, and Rhine deltas. *Ocean and Coastal Management*, 198, art. no. 105362, <https://DOI:10.1016/j.ocecoaman.2020.105362>
- Jordan, C., Visscher, J., Dung, N.V., Apel, H., **Schlurmann, T.**, 2020. Impacts of human activity and global changes on future morphodynamics within the tien river, vietnamese mekong delta. *WATER* (Switzerland), 12 (8), art. no. 2204, <https://doi:10.3390/w12082204>
- Schendel, A., Welzel, M., **Schlurmann, T.**, Hsu, T.W., 2020. Scour around a monopile induced by directionally spread irregular waves in combination with oblique currents. *Coastal Engineering*, 161, art. no. 103751, <https://doi:10.1016/j.coastaleng.2020.103751>
- Welzel, M., Schendel, A., Goseberg, N., Hildebrandt, A., **Schlurmann, T.**, 2020. Influence of Structural Elements on the Spatial Sediment Displacement around a Jacket-Type Offshore Foundation. *WATER - Section Water Erosion and Sediment Transport*, 12 (6), <https://doi.org/10.3390/w12061651>
- Kerpen, N.B., Daemrich, K.-F., Lojek, O., **Schlurmann, T.**, 2020. Effect of variations in water level and wave steepness on the robustness of wave overtopping estimation. *Journal of Marine Science and Engineering*, 8 (1), art. no. 63, <https://DOI:10.3390/JMSE8020063>
- Lojek, O., Tiede, J., Visscher, J., Cossu, R., **Schlurmann, T.**, 2020. Spatiotemporal Investigation of

Event-Driven Sedimentation in a Tidally Influenced Shipyard by Air and Waterborne Observations. *Journal of Waterway, Port, Coastal and Ocean Engineering*, 146 (4), (ASCE) art. no. 05020001, [https://doi.org/10.1061/\(ASCE\)WW.1943-5460.0000572](https://doi.org/10.1061/(ASCE)WW.1943-5460.0000572)

- Aghaei, A., Schimmels, S., **Schlurmann, T.** and A. Hildebrandt, 2020. Numerical modeling of pure/aerated water entry of elastic plates, investigation of the effect of aeration and hydroelasticity on impact loading and structural response. *Ocean Engineering*, 201, art. no. 107098, <https://doi.org/10.1016/j.oceaneng.2020.107098>

2019

- Schendel, A., Welzel, M., Hildebrandt, A., **Schlurmann, T.** and T.W. Hsu, 2019. Role and Impact of Hydrograph Shape on Tidal Current-Induced Scour in Physical-Modelling Environments. *Water* (Switzerland), MDPI, 11, 2636; <https://doi.org/10.3390/w11122636>
- Jordan, C., Tiede, J., Lojek, O., Visscher, J., Apel, H., Nguyen, H.Q., Quang, C.N.X., **Schlurmann, T.**, 2019. Sand mining in the Mekong Delta revisited - current scales of local sediment deficits. *Scientific Reports*, 9 (1), art. no. 17823, NATURE-Springer, <https://doi.org/10.1038/s41598-019-53804-z>
- Massolle, C., Lankenau, L., Koppe B. und **T. Schlurmann**, 2019. Eignung, Einsatz und Leistungsfähigkeit von Sandsackersatzsystemen im mobilen Hochwasserschutz, in: *Wasser und Abfall*, Springer Vieweg, Heft 9, Sept. 2019, pp. 18-25
- Grote, U., Dietrich, J., Ibendorf, J., Werthmann, C., Gabbert, W., Liefner, I., Nolte, K., Onken, H., **Schlurmann, T.**, Schmieder, U., Tuitjer, L., Weichgrebe, D., 2019. Migration und räumliche Transformation. Theoretische Ansätze, empirische Erkenntnisse, interdisziplinäre Perspektiven. *TRUST-Schriftenreihe*. Diskussionspapier Nr. 1/2019. Hannover. 74 S. <https://doi.org/10.15488/5212>
- Welzel, M.; Schendel, A.; **Schlurmann, T.**; Hildebrandt, A. Volume-Based Assessment of Erosion Patterns around a Hydrodynamic Transparent Offshore Structure. *Energies* (MDPI), 12, 3089. <https://doi.org/10.3390/en12163089>
- Gijnsman, R., Visscher, J., **Schlurmann, T.**, 2019. The lifetime of shoreface nourishments in fields with nearshore sandbar migration. *Coastal Engineering*, Elsevier, Vol. 152. Oct. 2019, <https://doi.org/10.1016/j.coastaleng.2019.203521>
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- Schoonees, T., Gijón Mancheño, A., Scheres, B., Bouma, T.J., Silva, R., **Schlurmann, T.**, Schüttrumpf, H., 2019. Hard Structures for Coastal Protection, Towards Greener Designs. *Estuaries and Coasts*, Springer <https://doi.org/10.1007/s12237-019-00551-z>
- Kerpen, N.B., Schoonees, T., **Schlurmann, T.**, 2019. Wave overtopping of stepped revetments, *Water* (Switzerland), MDPI, 11 (5), art. no. 1035, <https://doi.org/10.3390/w11051035>
- Zorndt, A.C., **Schlurmann, T.**, 2019. Sources of uncertainty in estuarine climate impact modelling. *Journal of Applied Water Engineering and Research*, 7 (1), pp. 37-47. <https://doi.org/10.1080/23249676.2017.1355756>
- Chavez, C.E.A., Stratigaki, V., Wu, M., Troch, P., Schendel, A., Welzel, M., Villanueva, R., **Schlurmann, T.**, De Vos, L., Kisacik, D., Pinto, F.T., Fazerer-Ferradosa, T., Santos, P.R., Baelus, L., Szengel, V., Bolle, A., Whitehouse, R., Todd, D., 2019. Large-scale experiments to improve monopile scour protection design adapted to climate change—the PROTEUS project. *Energies*, MDPI, 12 (9), art. no. 1709, <https://doi.org/10.3390/en12091709>
- Michalzik, J., Liebisch, S., **Schlurmann, T.**, 2019. Development of an outdoor wave basin to conduct

long-term model tests with real vegetation for green coastal infrastructures. *Journal of Marine Science and Engineering*, MDPI, 7 (1), art. no. 18, <https://DOI:10.3390/jmse7010018>

2018

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- Schendel, A., Hildebrandt, A., **Schlurmann, T.**, 2018. Experimental study on scour around a pile in multidirectional (Spreading) random waves. *Scour and Erosion IX - Proceedings of the 9th International Conference on Scour and Erosion, ICSE 2018*, pp. 267-273.
- Kerpen, N.B., Schoonees, T., **Schlurmann, T.**, 2018. Wave impact pressures on stepped revetments. *Journal of Marine Science and Engineering*, MDPI, 6 (4), art. no. 156, <https://DOI:10.3390/jmse6040156>
- Schendel, A., Hildebrandt, A., Goseberg, N. and **T. Schlurmann**, 2018. Processes and evolution of scour around a monopile induced by tidal currents. *Coastal Engineering*, Elsevier, 139, pp. 65-84. <https://doi:10.1016/j.coastaleng.2018.05.004>

2017

- Goseberg, N.; Chambers, M.D.; Heasman, K.; Fredriksson, D.; Fredheim, A.; **Schlurmann, T.**, 2017. Technological approaches to longlined and cage-based aquaculture in open ocean environments. *In: Aquaculture Pers. of Multi-Use Sites in the Open Ocean: The Untapped Potential for Marine Resources in the Anthropocene. Eds.: Buck, B., Langan, R., Springer International Publishing: Cham, CH; pp. 71–95.* https://doi.org/10.1007/978-3-319-51159-7_3
- Schendel, A., Goseberg, N. and **T. Schlurmann**, 2017. Influence of reversing currents on the erosion stability and bed degradation of widely graded grain material. *International Journal of Sediment Research*. Vol. 33, Issue 1, pp. 68-83 <https://doi.org/10.1016/j.ijsrc.2017.07.002>
- David, C.G., Roeber, V., Goseberg, N., **Schlurmann, T.**, 2017. Generation and propagation of ship-borne waves - Solutions from a Boussinesq-type model. *Coastal Engineering*, Elsevier 127, pp. 170-187 <http://doi:10.1016/j.coastaleng.2017.07.001>
- Kerpen, N.B., Bung, D.B., Valero, D., **Schlurmann, T.**, 2017. Energy dissipation within the wave run-up at stepped revetments, *J. of Ocean Univ. of China*, 16 (4), pp. 649-654. <http://doi:10.1007/s11802-017-3355-z>
- Manoj Kumar, G., Sriram, V., **Schlurmann, T.**, 2017. Propagation and breaking characteristics of solitons and N-wave in fresh water and brine. *Journal of Hydraulic Research*, IAHR, Issue 4. pp. 557-572 <http://dx.doi.org/10.1080/00221686.2016.1275050>

2016

- Schendel, A., Goseberg, N., **Schlurmann, T.**, 2016. Erosion stability of wide-graded quarry-stone material under unidirectional current. *Journal of Waterway, Port, Coastal and Ocean Engineering*, ASCE, 142 (3), [https://doi.org/10.1061/\(ASCE\)WW.1943-5460.0000321](https://doi.org/10.1061/(ASCE)WW.1943-5460.0000321)
- Wöbse, S., Kerpen, N., **Schlurmann, T.**, Goseberg, N., 2016. Stability of modular armour patches of normal and heavy concrete subjected to wave loads [Stabilität von modularen Deckwerkmatten aus Normal- und Schwebbeton unter Wellenlasten]. *Wasserwirtschaft*, 106 (10), pp. 43-49.
- David, G., Schulz, N., **Schlurmann, T.**, 2016. Assessing the Application Potential of Selected Ecosystem-Based, Low-Regret Coastal Protection Measures. *In: Ecosystem-Based Disaster Risk Reduction and Adaptation in Practice*, Springer International Pub. Vol. 42 - Adv. in Natural and Techn. Hazards Research, pp 457-482 https://doi:10.1007/978-3-319-43633-3_20

2015

- Sriram, V., **Schlurmann, T.**, Schimmels, S., 2015. Focused wave evolution using linear and second order

wavemaker theory, *Applied Ocean Research*, 53, pp. 279-296. <https://doi.org/10.1016/j.apor.2015.09.007>

- Schendel, A., Goseberg, N., **Schlurmann, T.**, 2015. Experimental study on the erosion stability of coarse grain materials under waves. *Journal of Marine Science and Technology*, MDPI, 23 (6), pp. 937-942. <https://DOI:10.6119/JMST-015-0610-12>
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- Bremm, G., Goseberg, N., **Schlurmann, T.** and I. Nistor, 2015. Long Wave Flow Interaction with a Single Square Structure on a Sloping Beach. *Journal of Marine Science and Engineering*, MDPI, Vol. 3 (3), pp. 821-844; <https://doi:10.3390/jmse3030821>
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- Yan, S., Ma, Q. W., Sriram, V., Qian, L., Ferrer, P. J. M. and **T. Schlurmann**, 2015. Numerical and Experimental Studies of Moving Cylinder in Uni-directional Focusing Waves. *Proc. of Int. Soc. of Offs. and Pol. Eng.*, ASCE, ISOPE-I-15-051

2014

- **Schlurmann, T.**; David, G.; Schulz, N., 2014. Low-regret adaptation measures – The way forward in Coastal Engineering? *Proc. Taiwan-EU Symposium on Ocean Observation and its Application*, pp. 73-79
- Sriram, V., Ma, Q.W., **Schlurmann, T.**, 2014. A hybrid method for modelling two dimensional non-breaking and breaking waves, *Journal of Computational Physics*, 272, pp. 429-454 <https://doi.org/10.1016/j.jcp.2014.04.030>
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2013

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2012

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