CV

Univ.-Prof. Dr.-Ing. habil. Torsten SCHLURMANN

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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
- **Postoctoral Reseacher**, 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

- Elected **Member of the Executive Board** of *German Marine Research Consortium* (KDM)
- Elected **Member of the Zukunftsforum Ozean** of *German Marine Research Consortium* (KDM)
- Appointed **Member of the Scientific Board** of *Fed. Waterways Engineering and Research Institute* (BAW),
- Elected **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
- 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, effects of river training and sand mining activities in estuaries and deltas
- Flood Risk and integrated coastal zone management under SLR and cascading effects
- Coastal dynamics, erosion processes and coastal engineering; transport processes of marine litter (MP)
- Marine renewable energies, port and harbor design, marine environmental impacts and projections

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)
- 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 Hafenbau (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)

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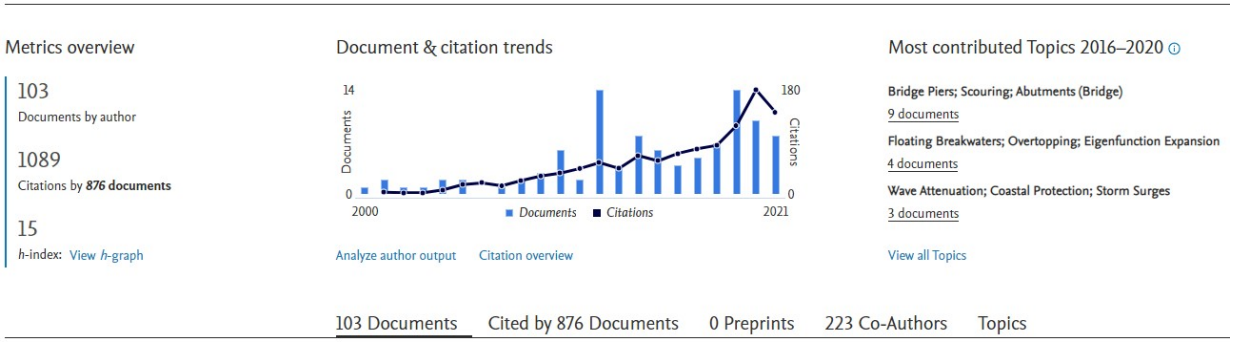

Manuscripts under review:

- Gruene, M., Neves, C., Kerpen, N.B., **Schlurmann, T.**, Rosman, P.C.C., 2021. Directional infragravity waves induced by bichromatic and bidirectional waves: Theoretical approach and experimental affirmation. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, ASCE (under review)
- Sriram, V., Saincher, S., **Schlurmann, T.**, 2021. Experimental investigation of steep nonlinear and breaking waves with local uniform current loading on a slender cylinder. *European Journal of Mechanics / B Fluids* (under review)
- Elsayed, S. M., Gijsman, R., **Schlurmann, T.**, Goseberg N., 2021. Non-hydrostatic numerical modeling of fixed and mobile barred beaches: Limitations of depth-averaged wave resolving models around sandbars. Journal of Waterway, Port, Coastal, and Ocean Engineering, ASCE (under review)
- Tiede, J., Cossu, R., Visscher, J., Grisham, A., **Schlurmann, T.**, 2021. Turbulence dampening due to stratification along an estuary based on field measurements. *Estuarine, Coastal and Shelf Science*, Elsevier (under review)
- David, G., Hennig, A., Ratter, B.M.W., Roeber, V., **Schlurmann, T.**, 2021. Climate change induced effects or maldevelopment: small islands and conflicting attribution of root causes. *Nature Communications*, Springer Nature Limited (under review). Pre-print available: https://doi.org/10.31223/X5888P

Manuscripts accepted for publication

- Lojek, O., Goseberg, N., **Schlurmann, T.**, 2021. Projected Hydro-Morphodynamic Impacts of Planned Layout Changes for a Coastal Harbor, *Journal of Waterway, Port, Coastal, and Ocean Engineering*, ASCE (accepted for publication)
- Taphorn, M., Villanueva, R., Paul, M., Visscher, J., **Schlurmann, T.**, 2021. Flow field and wake structure characteristics imposed by flexible, single seagrass surrogates. *Journal of Ecohydraulics* (accepted for publication)
- Villanueva, R., Thom, M., Visscher, J., Paul, M., **Schlurmann, T.**, 2021. Wake length of an artificial seagrass meadow: a study of shelter and feasibility for restoration. *Journal of Ecohydraulics* (accepted for publication)
- Jordan, C., Visscher, J, **Schlurmann, T.**, 2021. Projected responses of tidal dynamics in the North Sea to sea-level rise and morphological changes in the Wadden Sea. *Frontiers in Marine Science* 8:685758 (in press) *doi.org/10.3389/fmars.2021.685758*

2021

- Schoonees, T., Kerpen, N.B., **Schlurmann, T.**, 2021. Full-scale experimental study on wave overtopping at stepped revetments. *Coastal Engineering*, 167, art. no. 103887, https://DOI:10.1016/j.coastaleng.2021.103887
- David, C.G., Kohl, N., Casella, E., Rovere, A., Ballesteros, P., **Schlurmann, T.**, 2021. Structure-from-Motion on shallow reefs and beaches: potential and limitations of consumer-grade drones to reconstruct topography and bathymetry. *Coral Reefs*, 40 (3), pp. 835-851. https://DOI:10.1007/s00338-021-02088-9
- 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, Vol. 25, 34 https://doi.org/10.1007/s11852-021-00801-y
- Gijsman, R., Ruessink, B.G., Visscher, J., **Schlurmann, T.**, 2021. Observations on decadal sandbar behaviour along a large-scale curved shoreline. *Earth Surface Processes and Landforms*, 46 (2), pp. 490-503. https://DOI:10.1002/esp.5041

- Scheiber, L., Lojek, O., Götschenberg, A., Visscher, J., **Schlurmann, T.,** 2021. Robust methods for the decomposition and interpretation of compound dunes applied to a complex hydromorphological setting. *Earth Surface Processes and Landforms*, 46 (2), pp. 478-489. https://DOI:10.1002/esp.5040

- Sriram, V., Agarwal, S., **Schlurmann, T.**, 2021. Laboratory Study on Steep Wave Interactions with Fixed and Moving Cylinder. *International Journal of Offshore and Polar Engineering*, Vol. 31, No. 1, March 2021, pp. 19–26; https://doi.org/10.17736/ijope.2021.jc808

- Agarwal, S., Saincher, S., Sriram, V., Yan, S., Xie, Z., **Schlurmann, T.**, Ma, Q. Yang, X., Wan, D., Gong, Y., Li, Y., Li, Y., Lu, J., Sun, Y., Liu, Y., Zou, B., Chen, S., Lu, J., Lin, J., Hong, S.H., Ha; Y.-J., Kim, K.-H., Cho, S.-K., Park11, D.-M., Sithik, A., Bouscasse, B., Ducrozet, G., Ferrant, P., 2021. A Comparative Study on the Nonlinear Interaction Between a Focusing Wave and Cylinder Using State-of-the-art Solvers: Part B. *International Journal of Offshore and Polar Engineering*, Vol. 31, No. 1, March 2021, pp. 11–18; https://doi.org/10.17736/ijope.2021.jc832

- Sriram, V., Agarwal, S., Yan, S., Xie, Z., Saincher, S., **Schlurmann, T.**, Ma, Q., Stoesser, T., Zhuang, Y., Han, B., Zhao, W., Yang, X., Li, Z., Wan, D., Zhang, Y., Teng, B., Ning, D., Zhang, N., Zheng, Y., Xu, G., Gong, Y., Li, Y., Liao, K., Duan, W., Han, R., Asnim, W., Sulaiman, Z., Zhou, Z., Qin, J., Li, Y., Song, Z., Lou, X., Lu, L., Yuan, C., Ma, Y., Ai, C., Dong, G., Sun, H., Wang, Q., Zhai, Z.-T., Shao, Y.-L., Lin, Z., Qian, L., Bai, W., Mam, Z., Higuera, P., Buldakov, E., Stagonas, D., Martelo Lopez, S., Christou, A., Lin, P., Li, Y., Lu, J., Hong, S.H., Ha, Y.-J., Kim, K.-H., Cho, S.-K., Park, D.-M., Laskowski, W., Eskilsson, C., Ricchiuto, M., Engsig-Karup, A. P., Cheng, L., Zheng, J., Gu, H., Li, G., 2021. A Comparative Study on the Nonlinear Interaction Between a Focusing Wave and Cylinder Using State-of-the-art Solvers: Part A. *International Journal of Offshore and Polar Engineering,* Vol. 31, No. 1, March 2021, pp. 1–10; https://doi.org/10.17736/ijope.2021.jc820

2020

- 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: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:10.1016/j.oceaneng.2020.107098*

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- 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:10.3390/w11122636

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- 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

- Gijsman, 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

- Welzel, M., Schendel, A., Hildebrandt, A., **Schlurmann, T.**, 2019. Scour development around a jacket structure in combined waves and current conditions compared to monopile foundations. *Coastal Engineering*, Elsevier, Vol. 152. Oct. 2019, https://doi.org/10.1016/j.coastaleng.2019.103515

- Subramaniam, S.P., Scheres, B., Schilling, M., Liebisch, S., Kerpen, N.B., **Schlurmann, T.**, Altomare, C., Schüttrumpf, H., 2019. Influence of Convex and Concave Curvatures in a Coastal Dike Line on Wave Run-up. *Water* (Switzerland), MDPI, 11*(7),* 1333, https://doi.org/10.3390/w11071333

- 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: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: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:10.1080/23249676.2017.1355756

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2018

- Welzel, M., **Schlurmann, T.**, Hildebrandt, A., 2018. Local scour development and global sediment redistribution around a jacket-structure in combined waves and current. *Scour and Erosion IX* - Proceedings of the 9th International Conference on Scour and Erosion, ICSE 2018, pp. 275-282.

- 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

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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

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2015

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2014

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