

# CV

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

**Managing Director and Professor**

**Ludwig-Franzius-Institute for Hydraulic, Estuarine and Coastal Engineering**

**Leibniz Universität Hannover**

Ph.: +49 511 762-19021, Fax: +49 511 762-4002, Nienburger Str. 4, 30167 Hannover, Germany

Email: [schlurmann@lufi.uni-hannover.de](mailto:schlurmann@lufi.uni-hannover.de) Homepage: [www.lufi.uni-hannover.de](http://www.lufi.uni-hannover.de)

ORCID: <https://orcid.org/0000-0002-4691-7629> and [Scopus Author ID: 6603653887](https://scopus.com/authid/detail.url?authorID=6603653887)

Twitter: <https://twitter.com/TSchlurmann>



## 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)
- **Managing Director** *Coastal Research Centre (FZK)* as Central Joint Research Institution of the Leibniz Universität Hannover (LUH) and Technical Universität Braunschweig (TUBS), since 07/2021
- **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

- 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, 1<sup>st</sup> term 04/2011-03/2013 and 2<sup>nd</sup> 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), 1<sup>st</sup> term 09/2009-08/2013 and 2<sup>nd</sup> 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 Hafengebäude (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: T. Schlurmann (Oct 8<sup>th</sup>, 2021)

ORCID: <https://orcid.org/0000-0002-4691-7629> and [Scopus Author ID: 6603653887](https://scopus.com/authid/detail.uri?authorID=6603653887)

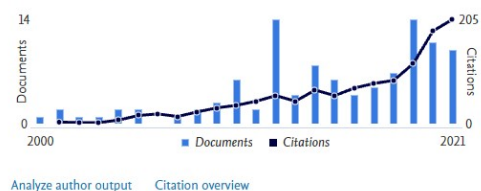
### Metrics overview

106  
Documents by author

1156  
Citations by 928 documents

16  
h-index: [View h-graph](#)

### Document & citation trends



### Most contributed Topics 2016–2020

Bridge Piers; Scouring; Abutments (Bridge)  
[9 documents](#)

Floating Breakwaters; Overtopping; Eigenfunction Expansion  
[4 documents](#)

Wave Attenuation; Coastal Protection; Storm Surges  
[3 documents](#)

[View all Topics](#)

### Manuscripts under review:

- Kempa, D., Prominski, M., Karrasch, L., Lojek, O. and **T. Schlurmann, 2021**. Fostering Ecosystem-based Coastal Protection by an Adapted Concept of Real-World Laboratories, *One Ecosystem*, Pensoft Publishers
- Schoonees, T., Kerpen, N.B. and **T. Schlurmann**. Full-scale experimental study on wave reflection and run-up at stepped revetments, *Coastal Engineering*, Elsevier ([under review](#))
- Villanueva, R., Paul, M. and **T. Schlurmann**. Anchor forces and design criteria for biodegradable artificial seagrass mats used for restoration. *Journal of Marine Science and Engineering*, MDPI, ([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](#))
- 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](#))

### Manuscripts accepted for publication

- 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 ([accepted for publication](#))

### 2021

- David, G., Hennig, A., Ratter, B.M.W., Roeber, V., **Schlurmann, T.**, 2021. Considering socio-political framings when analyzing coastal climate change effects can prevent maldevelopment on small islands. *Nature Communications*, 12, 5882. Springer Nature. <https://doi.org/10.1038/s41467-021-26082-5>
- von Storch, H., Fennel, K., Jensen, J., Lewis, K.A., Ratter, B., **Schlurmann, T.**, Wahl, T. and W. Zhang. Climate and Coast: Overview and Introduction, *Climate Science*, Oxford Research Encyclopedias (ORE) <https://doi.org/10.1093/acrefore/9780190228620.013.816>
- 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, Vol. 147 (6), Nov 2021 <https://ascelibrary.org/doi/full/10.1061/%28ASCE%29WW.1943-5460.0000666>
- 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*, Taylor & Francis Online <https://doi.org/10.1080/24705357.2021.1938253>
- 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*, Taylor & Francis Online <https://doi.org/10.1080/24705357.2021.1938256>
- 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 <https://10.3389/fmars.2021.685758>
- 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., Hüpger, 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 Thoindu 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.org/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: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>
- 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>
- 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: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

- 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](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 Deckwerksmatten aus Normal- und Schwerbeton 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](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>
- Lokesha, N.B. Kerpen, S.A. Sannasiraj, V. Sundar, **T. Schlurmann**, 2015. Experimental Investigations on Wave Transmission at Submerged Breakwater with Smooth and Stepped Slopes, *Procedia Engineering*, Elsevier, Vol. 116, pp. 713-719 <https://doi.org/10.1016/j.proeng.2015.08.356>
- 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>
- Kumar, G. M., Sriram, V., Horstmann, N., and **T. Schlurmann**, 2015. Experimental and Numerical Investigation on Extreme Wave Propagation and Run-Up of Brine (Dead Sea Water) and Fresh Water. *Proc. of Int. Soc. of Offs. and Pol. Eng.*, ASME, ISOPE, pp. 514-521
- 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>
- Goseberg, N., Lämmel, G., Taubenböck, H., Setiadi, N., Birkmann, J. and **T. Schlurmann**, 2014. The Last-Mile Evacuation Project: A Multi-disciplinary Approach to Evacuation Planning and Risk Reduction in Tsunami-Threatened Coastal Areas. *In: Early Warning for Geological Disasters – Scientific Methods and Current Practice*, **Eds.:** Wenzel, F. and J. Zschau. *Advanced Technologies in Earth Sciences*, Springer Berlin Heidelberg, pp. 207-226 [https://DOI:10.1007/978-3-642-12233-0\\_11](https://DOI:10.1007/978-3-642-12233-0_11)
- Kerpen N, Goseberg N, **Schlurmann T.**, 2014. Experimental Investigations on Wave Overtopping on Stepped Embankments. *In: App. of Phys. Mod. to Port and Coast. Prot.* Vol. 1, pp. 262-269
- **Schlurmann, T.**, 2014. *Contested Space* – Herausforderung „Offshore-Windenergie“ – Nutzen und Wirkungen. *In: Berichte der Reinhold-Tüxen-Gesellschaft (RTG)*, Band 26, pp. 109-118
- Lojek, O., Kramer, K., Zorndt, A., Goseberg, N. and **T. Schlurmann**, 2014. Velocity and turbulence

measurements at the Ems barrage, *Die Küste*, (81), pp. 55-67

- Zorndt, A.C. and **T. Schlurmann**, 2014. Investigating impacts of Climate Change on the Weser estuary. *Die Küste*, (81), pp. 541-550
- Goseberg, N., and **T. Schlurmann**, 2014. Non-stationary flow around buildings during run-up of Tsunami waves on a plain beach. *Coastal Engineering Proceedings*, 1(34), <http://dx.doi.org/10.9753/icce.v34.currents.21>
- Schendel, A., Goseberg, N., and **T. Schlurmann**, 2014. Experimental study on the performance of coarse grain materials as scour protection. *Coastal Engineering Proceedings*, 1(34), <http://dx.doi.org/10.9753/icce.v34.structures.58>
- Zorndt, A., Goseberg, N. and **T. Schlurmann**, 2014. Influence of retention areas on the propagation of storm surges in the Weser Estuary. *Coastal Engineering Proceedings*, 1(34), <http://dx.doi.org/10.9753/icce.v34.management.51>
- Horstmann, N., Kerpen, N., Goseberg, N. and **T. Schlurmann**, 2014. Investigations on the evolution and propagation of waves in highly concentrated fluid. *Coastal Engineering Proceedings*, 1(34), <http://dx.doi.org/10.9753/icce.v34.posters.24>
- Lojek O, Goseberg N, Stahlmann A, Krämer K, **Schlurmann T.**, 2014. Unsicherheiten bei der Bestimmung von Bemessungswasserständen und Konzeptionierung eines objektspezifischen Hochwasserschutzmanagements mit standardisiertem Betriebsablauf für das Whitney Museum of American Art in NYC. *In: Dresdener Wasserbaukolloquium 2014 - Simulationsverfahren und Modelle für Wasserbau und Wasserwirtschaft*. TU Dresden, Vol. 50, pp. 175 – 185

## 2013

- Sriram, V., **Schlurmann, T.** and S. Schimmels, 2013. Focused wave evolution in intermediate water depth using first and second order wave maker theory, *Proc. 23rd Int. Offsh. & Polar Eng. Conf.*, ISOPE 2013, pp. 897-904
- Hildebrandt, A., Sriram, V. & **T. Schlurmann**, 2013. Simulation of focusing waves and local line forces due to wave impacts on a tripod structure, *Proc. 23rd Int. Offsh. & Polar Eng. Conf.*, ISOPE 2013, pp. 575-581
- Goseberg, N., Wurpts, A. and **T. Schlurmann**, 2013. Laboratory-scale generation of tsunami and long waves. *Coastal Engineering*, Elsevier, 79, pp. 57-74 <https://doi.org/10.1016/j.coastaleng.2013.04.006>
- Taubenböck, H., Goseberg, N., Lämmel, G., Setiadi, N., **Schlurmann, T.**, Nagel, K., Siegert, F., Birkmann, J., Traub, K.-P., Dech, S., Keuck, V., Lehmann, F., Strunz, G., Klüpfel, H., 2013. Risk reduction at the "Last-Mile": An attempt to turn science into action by the example of Padang, Indonesia, *Natural Hazards*, 65 (1), pp. 915-945 <https://doi.org/10.1007/s11069-012-0377-0>

## 2012

- Vennebusch, M., Albert, L., Schön, S., Kube, F., Goseberg, N., Zorndt, A., **Schlurmann, T.**, Wurpts, A., 2012. Precise determination of sediment dynamics using low-cost GPS-floaters. *IEEE PLANS - Position Location and Navigation Symposium*, Art. no. 6236957, pp. 791-798
- Sriram, V., Ma, Q.W., **Schlurmann, T.**, 2012. Numerical simulation of breaking waves using hybrid coupling of fnpt and ns solvers. *Proc. of the International Offshore and Polar Engineering Conference*, pp. 1118-1124
- Stahlmann, A., **Schlurmann, T.**, 2012. Kolkbildung an komplexen Gründungsstrukturen für Offshore Windenergieanlagen: Untersuchungen zu Tripod-Gründungen in der Nordsee. *Bautechnik*, 89 (5), pp. 293-300, Wiley, <https://doi.org/10.1002/bate.201200009>
- Hildebrandt, A., **Schlurmann, T.**, 2012. Wellenbrechen an Offshore Tripod-Gründungen -Versuche und Simulationen im Vergleich zu Richtlinien. *Bautechnik*, 89 (5), pp. 301-308, Wiley, <https://doi.org/10.1002/bate.201200008>
- Goseberg, N. and **Schlurmann, T.**, 2012. INTERACTION OF IDEALIZED URBAN INFRASTRUCTURE AND LONG WAVES DURING RUN-UP AND ON-LAND FLOW PROCESS IN COASTAL REGIONS. *Coastal Engineering Proceedings*, 1(33), <https://currents.18.doi:10.9753/icce.v33.currents.18>



- Zorndt, A., **Schlurmann, T.** and Grabemann, I., 2012. THE INFLUENCE OF EXTREME EVENTS ON HYDRODYNAMICS AND SALINITIES IN THE WESER ESTUARY IN THE CONTEXT OF CLIMATE IMPACT RESEARCH. *Coastal Engineering Proceedings*, 1(33), <https://currents.50.doi:10.9753/icce.v33.currents.50>
- Stahlmann, A. and **Schlurmann, T.**, 2012. INVESTIGATIONS ON SCOUR DEVELOPMENT AT TRIPOD FOUNDATIONS FOR OFFSHORE WIND TURBINES: MODELING AND APPLICATION. *Coastal Engineering Proceedings*, 1(33), <https://sediment.90.doi:10.9753/icce.v33.sediment.90>
- Wilms, M., Stahlmann, A. and **Schlurmann, T.**, 2012. INVESTIGATIONS ON SCOUR DEVELOPMENT AROUND A GRAVITY FOUNDATION FOR OFFSHORE WIND TURBINES. *Coastal Engineering Proceedings*, 1(33), <https://structures.35.doi:10.9753/icce.v33.structures.35>
- Kerpen, N and **Schlurmann, T.**, 2012. WAVE OVERTOPPING AT DYKES WITH TOPPED VERTICAL WALL - IMPACTS OF OBLIQUE WAVE ATTACK. *Coastal Engineering Proceedings*, 1(33), <https://structures.60.doi:10.9753/icce.v33.structures.60>
- Hildebrandt, A. and **Schlurmann, T.**, 2012. BREAKING WAVE KINEMATICS, LOCAL PRESSURES, AND FORCES ON A TRIPOD STRUCTURE. *Coastal Engineering Proceedings*, 1(33), <https://structures.71.doi:10.9753/icce.v33.structures.71>
- Mai, T., & **Schlurmann, T.**, 2012. WAVE HEIGHTS RECOVERY FROM SUBSURFACE PRESSURES UPON A SMALL VERTICAL CYLINDER. *Coastal Engineering Proceedings*, 1(33), <https://posters.16.doi:10.9753/icce.v33.posters.16>
- Saalbach, J., Zorndt, A., Kraemer, K., & **Schlurmann, T.**, 2012. REDUCING SILTATION IN THE JUIST MARINA - IDENTIFICATION OF SEDIMENT TRANSPORT MECHANISMS BY IN SITU MEASUREMENTS AND NUMERICAL MODELLING. *Coastal Engineering Proceedings*, 1(33), <https://posters.32.doi:10.9753/icce.v33.posters.32>

## 2011

- Zorndt, A.C., Wurpts, A., **Schlurmann, T.**, 2011. The influence of hydrodynamic boundary conditions on characteristics, migration, and associated sand transport of sand dunes in a tidal environment - A long-term study of the Elbe Estuary. *Ocean Dynamics*, pp. 1-16, <https://doi.org/10.1007/s10236-011-0452-1>
- **Schlurmann, T.**, Siebert, M., 2011. The Capacity Building programmes of GITEWS - Visions, Goals, Lessons Learned, and Re-iterated Needs and Demands. *Natural Hazards and Earth System Science (NHES)*, 11 (2), pp. 293-300. <http://dx.doi.org/10.5194/nhess-11-293-2011>
- Buck, B., Franz, B., Goseberg, N., Stahlmann, A., **Schlurmann, T.**, 2011. Multiple Nutzung und Co-Management von Offshore-Strukturen: Marine Aquakultur und Offshore Windparks, *FZK-Kolloquium - Maritimer Wasserbau und Küsteningenieurwesen*, Forschungszentrum Küste, S. 127-140
- Wahrmund, H., Wilms, M., Stahlmann, A., Heitz, C., **Schlurmann, T.**, 2011. Kolkbildung und Dimensionierung des Kolkschutzes eines OWEA-Schwerkraftfundaments, *FZK-Kolloquium - Maritimer Wasserbau und Küsteningenieurwesen*, Forschungszentrum Küste, S. 93-104
- Kerpen N. B., Daemrich K.-F., Verworn F., Bung D. B., **Schlurmann T.**, 2011. Ermittlung mittlerer Wellenüberlaufmengen an Sturmflutschutzwänden auf Deichen, 8. *FZK-Kolloquium - Maritimer Wasserbau und Küsteningenieurwesen*, Forschungszentrum Küste, S. 63-67

## 2010

- Zorndt, A., Wurpts, A. and **T. Schlurmann**, 2010. Influence of hydrodynamic boundary conditions on dune migration and associated sand transport rates in the Elbe Estuary, *15th Conference on Physics of Estuaries and Coastal Seas (PECS)*
- Kongko, W. and **T. Schlurmann**, 2010. The Java Tsunami Model: Using Highly-Resolved Data to Model the Past Event and to Estimate the Future Hazard. *Proceedings of 32nd Conference on Coastal Engineering (ICCE)*, American Society of Civil Engineers (ASCE), Shanghai, China, Jul. 2010.
- Zorndt, A.C., Wurpts, A., **Schlurmann, T.**, Ohle, N. and Th. Strotmann, 2010. Dune Migration and Sand Transport Rates in Tidal Estuaries: The Example of the River Elbe. *Proceedings of 32nd Conference on Coastal Engineering (ICCE)*, American Society of Civil Engineers (ASCE), Shanghai, China, Jul. 2010.
- **Schlurmann, T.**, Kongko, W., Goseberg, N., Natawidjaja, D. H. and K. Sieh, 2010. Near-Field Tsunami

Hazard Map Padang, West Sumatra: Utilizing High Resolution Geospatial Data and Reasonable Source Scenarios. *Proceedings of 32nd Conference on Coastal Engineering (ICCE)*, American Society of Civil Engineers (ASCE), Shanghai, China, Jul. 2010.

- Mai, T.M., Wilms, M., Hildebrandt, A. and **T. Schlurmann**, 2010. Comparison of Drag and Inertia Coefficients for a Circular Cylinder in Random Waves Derived from Different Methods. *Proceedings of 32nd Conference on Coastal Engineering (ICCE)*, ASCE, Shanghai, China, Jul. 2010.
- Stahlmann, A. and **T. Schlurmann**, 2010. Physical Modeling of Scour around Tripod Foundation Structures for Offshore Wind Energy Converters. *Proceedings of 32nd Conference on Coastal Engineering (ICCE)*, American Society of Civil Engineers (ASCE), Shanghai, China, Jul. 2010.
- Goseberg, N. and **T. Schlurmann**, 2010. Numerical and Experimental Study on Tsunami Run-up and Inundation Influenced by Macro Roughness Elements. *Proceedings of 32nd Conference on Coastal Engineering (ICCE)*, American Society of Civil Engineers (ASCE), Shanghai, China, Jul. 2010.
- Kerpen, N.B., Bung, D.B. and **T. Schlurmann**, 2010. Physical model investigations of ships passing through a lock, *3rd Int. Junior Researcher and Engineer Workshop on Hydraulic Structures (IAHR)*
- Sriram V., Sannasiraj S.A., Sundar V., Schlenkhoff A. and **T. Schlurmann**, 2010. Quantification of phase shift in the simulation of shallow water waves. *International Journal for Numerical Methods in Fluids*, Volume 62, Issue 12, pp. 1381-1410, <https://doi.org/10.1002/flid.2072>
- Wilms, M., Waltemathe, M., Goseberg, N., Peters, K., Khorasani, R., Hamann, M. and **T. Schlurmann**, 2010. Einsatz von Küstenschutzelementen aus Eisensilikat-Beton, *HANSA Intern. Marit. J.*, Ausg. 03/2010

## 2009

- Kongko, W. and **T. Schlurmann**, 2009. The July 17, 2006 Java Tsunami: Tsunami Modeling and its Characteristic Modes Based on the Hilbert-Huang Transformation. *Congress of the Asia Oceania Geosciences Society (AOGS)*, Singapore
- Goseberg, N. and **T. Schlurmann**, 2009. Highly resolved tsunami inundation study for Padang, Western Sumatra using a multi-hazard approach. *Congress of Asia Oceania Geosc. Society (AOGS)*, Singapore
- Stahlmann, A., Hildebrandt, A., and T. Schlurmann, 2009. Untersuchung von Seegangsbelastungen und Kolken an Offshore-Windenergieanlagen im Testfeld Alpha Ventus, *HTG-Kongress*, Sept. 2009
- Stahlmann, A., Hildebrandt, A. and **T. Schlurmann**, 2009. Investigations on Scour Development at Offshore Wind Energy Converters in the German Offshore Test Site alpha ventus, *Proc. 33rd IAHR conference*, pp 3311-3318, Vancouver, Canada
- Hildebrandt, A., Stahlmann, A. and **T. Schlurmann**, 2009. Field data derived from Offshore Wind Energy Converters - Assessment and correlation of dynamic wave loads, *Proc. 33rd IAHR conference*, pp 7296-7303, Vancouver, Canada
- Taubenböck, H., Goseberg, N., Setiadi, N., Lämmel, G., Moder, F., Oczipka, M., Klüpfel, H., Wahl, R., **Schlurmann, T.**, Strunz, G., Birkmann, J., Nagel, K., Siegert, F., Lehmann, F., Dech, S., Gress, A., and Klein, R., 2009. "Last-Mile" preparation for a potential disaster – Interdisciplinary approach towards tsunami early warning and an evacuation information system for the coastal city of Padang, Indonesia, *Natural Haz. and Earth System Science (NHES)*, 9, pp. 1509-1528, <https://doi.org/10.5194/nhess-9-1509-2009>
- **Schlurmann, T.** and N. Goseberg, 2009. Enhanced Hazard Mapping on a Medium-Resolved Numerical Grid for the city of Padang, West Sumatra. *Journal of Ship Technology*, Vol. 5, No. 2, pp. 13-21
- Haake, G., Rolfes, R., Schaumann, P., Huhn, H., **Schlurmann, T.**, Lohaus, L. and M. Achmus, 2009. Research on Support Structures in the German Offshore Wind Farm alpha ventus. *Proc. Of the European Wind Energy Conference and Exhibition*
- Kongko, W. and **T. Schlurmann**, 2009. The July 17, 2006 Java Tsunami: Tsunami Modeling and the Possible Causes of the Extreme Run-up, *European Geosciences Union*, Session SM4.2/NH6.2: Earthquake and Tsunami Early Warnings
- **Schlurmann, T.**, Lieberman v., N., Woltering, S., Bauermeister, U. und V. Sigrist, 2009. Risikobewertung und Risikomanagement. *HANSA – International Maritime Journal*, 146, Nr. 4, pp. 101-104

## 2008

- **Schlurmann, T.**, Spahn, H. and M. Siebert, 2008. Maßnahmen, Strategien und „Lessons learned“ zur Ausbildung und Schulung von Wissenschaftlern, Partnerorganisationen und der gefährdeten Bevölkerung im Rahmen des Deutsch-Indonesischen Tsunami Frühwarnsystems (GITEWS). Konferenzbeitrag zum 9. *Forum Katastrophenvorsorge des DKKV*
- **Schlurmann, T.**, 2008. Risikobewertung und -management in der Katastrophenvorsorge. Notfallvorsorge, *Walhalla Verl.*, Nr. 4, pp. 22-24
- Escher, J. and **T. Schlurmann**, 2008. On the Recovery of the Free Surface from the Pressure within Periodic Travelling Water Waves. *J. of Nonlinear Math. Physics*, Vol. 15, 2, pp. 50-57, <https://doi.org/10.2991/jnmp.2008.15.s2.4>
- Spekker, H. and **Schlurmann, T.**, 2008. Hydrodynamisch-numerische Simulation von Niederschlag und Abfluss in tidebeeinflussten Gewässern am Beispiel des Hochwasserschutzplans Wümme. *Tag der Hydrologie 2008*

## 2007

- Birkmann, J. and **T. Schlurmann**, 2007. Numerical Last-Mile Tsunami Early Warning and Evacuation Information System. *GEOTECHNOLOGIEN Science Report* No. 10, pp. 62-74,
- Spekker, H., **Schlurmann, T.** and C. Päsler, 2007. Innovative technologische Lösungsansätze zum Hochwasserschutz vor dem Hintergrund des Klimawandels. Konferenzbeitrag zum 8. *Forum Katastrophenvorsorge des DKKV, Karlsruhe, Germany*

## 2005

- Harms, J. and **T. Schlurmann**, 2005. Time-variant net-mass transport beneath breaking waves, *Proc. 29th Intern. Conference on Coastal Engineering (ICCE2004)*, Amer. Soc. of Civil Eng. (ASCE), Vol. 1, pp. 441-453
- **Schlurmann, T.**, 2005. Research Agenda for Agenda for the initiation of a Tsunami Early Warning System in the Indian Ocean, *Notes from the German Association for Water, Wastewater and Waste (DWA)*

## 2004

- Dätig, M. and **Schlurmann, T.**, 2004. Performance and Limitations of the Hilbert-Huang Transformation with Short Application to Irregular Water Waves. *Ocean Engineering*, Elsevier Science Ltd., Vol. 31 (14-15), pp. 1783-1834, <https://DOI:10.1016/j.oceaneng.2004.03.007>
- Sundar, V., Roopsekhar, K.A., **Schlurmann, T.** and M.R. Abbasi, 2004. Probability Distribution of Wave Force on Pipelines Near a Sloping Boundary Parallel and Normal to Wave Direction. *Coastal Engineering Journal (CEJ)*, Japan Society of Civil Engineers (JSCE), World Scientific, Vol. 46 (1), pp. 93-117 <https://doi.org/10.1142/S0578563404000902>

## 2003

- Roopsekhar, K.A., Abbasi, M.R., Sundar, V. and **T. Schlurmann**, 2003. Probabilistic Description of Wave Forces on Pipelines Normal to Shoreline Near a Sloping Boundary, *6th Intern. Conference on Coastal and Port Engineering in Developing Countries*, Vol. 3, pp. 1020-1036
- **Schlurmann, T.**, Bleck, M. and H. Oumeraci, 2003. Wave Transformation at Artificial Reefs described by the Hilbert-Huang Transformation. *Proc. 28th International Conference on Coastal Engineering (ICCE2002)*, American Society of Civil Engineers (ASCE), Vol. 2, pp. 1791-1803
- Roopsekhar, K.A., Abbasi, M.R., Sundar, V. and **T. Schlurmann**, 2003. Probabilistic Description of Wave Forces on Pipelines Normal to Shoreline near a Sloping Boundary, *6th Intern. Conference on Coastal and Port Engineering in Developing Countries (COPEDEC2003)*
- Dätig, M. and **T. Schlurmann**, 2003. Visualization of deep-water breaking waves using a High-Speed Camera. *Proc. 6th Intern. Conference on Coastal and Port Engineering in Developing Countries (COPEDEC2003)*

## 2002

- Dose, T. and **T. Schlurmann**, 2002. Extrapolating Rating Curves by Numerical Modeling. *Proc. 5th Intern. Conference on Hydroscience & Engineering (ICHE2002)*, pp. 711-724

- **Schlurmann, T.**, 2002. Spectral Frequency Analysis of Nonlinear Water Waves derived from the Hilbert-Huang Transformation. *Journal of Offshore Mechanics and Arctic Engineering, American Society of Mechanical Engineers*, Vol. 124 (1), pp. 22-29, <http://dx.doi.org/10.1115/1.1423911>
- **Schlurmann, T.**, Dose, T. and S. Schimmels, 2002. Characteristic Modes of the 'Adreanov Tsunami' based on the Hilbert-Huang Transformation. *Proc. 4th International Symposium on Ocean Wave Measurement and Analysis (WAVES2001)*, American Society of Civil Engineers (ASCE), Vol. 2, pp. 1525-1534
- Munko, S., Oertel, M, and **T. Schlurmann**, 2002. Seeping Flow in the Unsaturated Soil Zone to adjust a Fibre Optic Temperature Measurement System in a Dam. *Proc. 5th Intern. Conference on Hydroscience & Engineering (ICHE2002)*, pp. 567-575
- Oertel, M, Munko, S., and **T. Schlurmann**, 2002. Calculations on the Amount of Drainage Water in a Dam from long-term Hydrological Databases. *Proc. 5th Intern. Conf. on Hydrosc. & Eng.* (ICHE2002), pp. 576-588

#### 2001

- Lengright, J., Schimmels, S., **Schlurmann, T.** and K.-U. Graw, 2001. Whole field velocity mapping in waves. *Proc. Intern. Conference in Ocean Engineering (ICOE2001)*, Vol. 2: Marine Hydrodynamics, pp. 95-102
- Dose, T. and **T. Schlurmann**, 2001. Calculations of Discharge by using the Water Surface Slope under Free Flow Conditions. *Proc. 28th Congress of Intern. Assoc. for Hydr. Research (IAHR2001)*, Vol. D, pp. 179-182
- **Schlurmann, T.**, 2001. Spectral Frequency Analysis of Nonlinear Water Waves derived from the Hilbert-Huang Transformation. *Proc. 20th Offshore Mechanics and Arctic Engineering Conference (OMAE2001)*, Vol.: Safety & Reliability, S&R 2166 (CD-ROM)

#### 2000

- **Schlurmann, T.**, Graw, K.-U. and J. Lengright (2000). Spatial evolution of Laboratory Generated Freak Waves in deep water depth. *Proc. 10th Annual Intern. Offshore and Polar Eng. Con.* (ISOPE2000), Vol. III, pp. 54-59
- **Schlurmann, T.**, Schimmels, S. and T. Dose, 2000. Spectral Analysis of transient waves using Wavelet Spectra (Morlet) and Hilbert Spectra (EMD). *Proc. 4th Intern. Conference on Hydroscience & Engineering (ICHE2000)*, pp. 1113-1122

#### 1999

- **Schlurmann, T.**, Dose, T., Schimmels, S. and A. Schulz, 1999. Sluice Gate Efficiency on the Headwater level of a Flood Control Reservoir by Physical and Numerical Modeling. *Proc. 28th Congress of Intern. Association for Hydraulic Research (IAHR1999)*, Vol. 1, pp. 372-377
- Kaldenhoff, H. and **T. Schlurmann**, 1999. Freak Wave Simulation. *Proc. 2nd German-Chinese Joint Seminar on Recent Developments in Coastal Engineering*, Vol. 1, pp. 65-77
- **Schlurmann, T.** and H. Kaldenhoff, 1999. Spatial and time-dependent evolution of extreme waves in intermediate and deep water depths. *Proc. Hydralab workshop*, pp. 227-237
- Dose, T., Kaldenhoff H. and **T. Schlurmann**, 1999. Conception of breakwaters with active force dissipation by hydraulic jets. *Proc. Hydralab workshop*, pp. 295-395

#### 1998

- Schlenkhoff, A. and **T. Schlurmann**, 1998. Could small-scale modelling attempts with a moveable bed contribute to understand hydrodynamic and sediment transport processes? *Wasserbaukolloquium Dresden '98*, Institut für Wasserbau und Technische Hydromechanik, TU Dresden, Germany

October 8, 2021