nstitute of River and Coastal Engineering lamburg University of Technology (TUHH) 2000 Dr. degree, University of Rostock, Germany, Faculty of Civil Engineering, Institute of Hydraulic Engineering (2000) 1991 Diploma in Civil Engineering, University of Hannover, Germany Since 2017 Adjunct Professor, Department of Hydraulic and Ocean Engineering,
 2000 Dr. degree, University of Rostock, Germany, Faculty of Civil Engineering, Institute of Hydraulic Engineering (2000) 1991 Diploma in Civil Engineering, University of Hannover, Germany Since 2017
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National Cheng-Kung University, Tainan, Taiwan, R.O.C. Since 2012 Full Professor of Hydraulic Engineering, TUHH Head of Institute of River and Coastal Engineering, TUHH 2009 – 2011 Visiting Associate Professor, College of Ocean, Hohai University Nanjing 2007, 2007, 2009 Adjunct Associate Professor, Department of Hydraulic and Ocean Engineering, National Cheng-Kung University, Tainan, Taiwan, R.O.C. 2000 – 2012 Senior Researcher, University of Rostock (since 2003 Head of Coastal Engineering Group) 1994 - 2000 Researcher, University of Rostock 1991 – 1994 Researcher, University of Hannover, Franzius-Insitute
B.Sc. – Courses Hydromechanics – Bachelor Civil and Environmental Engineering, TUHH Hydrology – Bachelor Civil and Environmental Engineering, TUHH Hydraulic Engineering – Bachelor Civil and Environmental Engineering, TUHH Hydraulics – Bachelor Civil and Environmental Engineering, TUHH M.Sc Courses Basics of Coastal Engineering – Master Civil Engineering, TUHH Coastal Protection – Master Civil Engineering, TUHH Port Engineering – Master Civil Engineering, TUHH Modelling in Coastal and Hydraulic Engineering, – Master Civil Engineering, FUHH Applied Surface Hydrology – Master Water and Environment and Master Environmental Engineering, TUHH Interaction Water – Environment – Master Water and Environment and Master Environmental Engineering, TUHH Modelling of Currents in Rivers and Estuaries – Master Water and Environment and Master Environmental Engineering, TUHH Nature Oriented Hydraulic Engineering / Integrated Flood Protection – Master Water and Environment and Master Environmental Engineering, TUHH Coastal Protection – National Cheng-Kung University Tainan, Taiwan Engineering in the Coastal Zone / Modelling of Coastal Processes – Master Programme POMOR, St. Petersburg State University and Hamburg University

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Research and development projects during the past 5 years	Ongoing Research Projects 2017 – 2019 EasyGSH-DB Determination of application oriented Synoptical Reference Data of Geomorphology, Sedimentology and Hydrodynamic of the German Bight, BMVI – MFUND, Kooperation mit BAW, BSH, Smile-Consult, Küste und Raum 2017 HalligModell – Hydrodynamic-numerical modelling of flooding and drainage of Holm Islands in the North Sea, LKN SH 2016 - 2017 Port of Chittagong – Data analysis and hydrodynamic-numerical simulation of water levels, currents and waves and the resulting sediment transport for the planned Container Terminal Chittagong 2016 – 2017 Hydrological model Schleswig-Holstein – Development of a hydrological mode for rivers and water courses in Schleswig-Holstein, LLUR 2016 – 2019 EcoDike-Maintenance - Development of risk based maintenance strategies for green sea dikes, BMBF 2015 – 2019 FAIR - Flood infrastructure Asset management and Investment in Renovation, adaptation and maintenance, EU – Interreg VB – North Sea Region Programme 2016 – 2018 KAREL – Adaptation of the storm-water drainage system of Elmshorn and surrounding low lying areas to climate change related effects, BMUB – German Adaptation Strategy 2015 – 2018 AMSEL Ostsee – Analyses of high resolution water level data and determination of the temporal development of mean and extreme water levels in the southern and south-western Baltic Sea, BMBF / KFKI 2015 – 2018 Early Dike - BMBF-Verbundprojekt Sensor- and risk based early warning system for coastal dikes, Part Project WP2 (TUHH): Development of a Wave Load Simulator for an early warning system for coastal dikes, BMBF 2015 – 2017 UrbMod – Modelling the Urban System, Forschungsförderung FHH 2015 – 2017 UrbMod – Modelling the Urban System, Forschungsförderung FHH 2015 – 2017 Prandy – Weser Event driven development of the morpho-dynamics in the Weser Estuary between the Blexer Bogen and Nordenham, BAW, Hamburg Ongoing KALYPSO – Development of a simulation environment for numerical analyses of hydrological, hydraulic and hydrodynamic processes, Ei

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Activities in scientific organizations and associations during the past 5 years	 Since 2017 BWK - Bund der Ingenieure für Wasserwirtschaft, Abfallwirtschaft und Kulturbau - (BWK) e.V. / Association of engineers for water management, waste management and land improvement – Working Group 3.2 "Mobile Flood Protection" (Chairman) Since 2016 Member PIANC Working Group 185 SITE SELECTION AND PLANNING FOR A NEW PORTS AND SPECIALIZED MARINE TERMINALS ON GREENFIELD SITES - TECHNICAL GUIDELINES 2015 – 2015 EUCC – Germany, Member of Board 2007 - 2014 Member PIANC CoCom Working Group 2 Best Practices for shoreline stabilization methods (PIANC Report "Best Practices for") Since 2004 Member National Working Group Pleasure Boat Navigation of Hafenbautechnischen Gesellschaft (HTG) Since 2000 Member National Working Group "Coastal Protection Works" / Ausschuss Küstensschutzwerke der Hafenbautechnischen Gesellschaft und der Deutschen Gesellschaft für Geotechnik (Mitglied seit 2002) Since 2000 Member National Working Group "Methods and techniques of field investigations in Coastal Engineering" / Mitglied im Ausschuß für Verfahren und Meßtechnik im Küsteningenieurwesen der Hafenbautechnischen Gesellschaft (HTG)
Significant publications during the past 5 years	 Hellmers, S.; Fröhle, P.: Integrating Local Scale Drainage Measures in Meso Scale Catchment Modelling Water 9, no. 2: 71. Kunstmann, H.; Fröhle, P.; Hattermann, F.F.; Marx, A.; Smiatek, G.; Wanger, C.: Kap. 16: Wasserhaushalt In: Guy P. Brasseur, Daniela Jacob, Susanne Schuck-Zöller (Hrsg), Klimawandel in Deutschland, Springer Verlag, Berlin, Heidelberg, Open Access, DOI 10.1007/978-3-662-50397-3 URL: http://link.springer.com/book/10.1007%2F978-3-662-50397-3 Shaikh, S. et al: An operational hydrodynamic-numerical model of the Elbe estuary with Telemac-2D based on predicted water levels In Proceedings of the 12th International Conference on Hydroscience & Engineering: Hydro-Science and Engineering for Environmental Resilience, Tainan, Taiwan, 6–10 November 2016. Dreier, N., Fröhle, P.: Operational wave now-and forecast in the German bight as a basis for the assessment of wave-induced hydrodynamic loads on coastal dikes. 8th Chinese-German Joint Symposium on Hydraulic and Ocean Engineering, 18 – 24 September 2016, Qingdao, P.R. China Hellmers, S., Manojlovic, N., Palmaricciotti, G., Fröhle, P.: Modelling decentralised systems for urban drainage and flood mitigation. Journal of Applied Water Engineering and Research, 2016 DOI: 10.1080/23249676.2015.1128368. Nehlsen, E.; Fröhle, P.,: Morphological development of tidal tributaries in relation to turbidity and sediment concentration of the main estuary river In: Wieprecht, Silke, Haun, Stefan, Karolin Weber, Markus Noack und Kristina Terheiden (Hg.): River Sedimentation. ISRS 2016. Stuttgart, 1922.09.2016: CRC Press

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	 Dreier, N.; Fröhle, P.: EFFECTS OF REGIONAL CLIMATE CHANGE ON THE LONGSHORE SEDIMENT TRANSPORT AT THE GERMAN BALTIC SEA COAST. Proceedings of the 36th IAHR World Congress 28 June – 3 July, 2015, The Hague, the Netherlands Dreier, N.; Schlamkow, C.; Fröhle, P.; Salecker, D. und Xu, Z.: ASSESSMENT OF CHANGES OF EXTREME WAVE CONDITIONS AT THE GERMAN BALTIC SEA COAST ON THE BASIS OF FUTURE CLIMATE CHANGE SCENARIOS, Journal of Marine Science and Technology, Vol. 23, No. 6, pp. 839-845 (2015), DOI: 10.6119/JMST-015-0609-3 Hellmers, S., Manojlovic, N., Palmaricciotti, G., Kurzbach, S., and Fröhle, P.: Multiple linked sustainable drainage systems in hydrological modelling for urban drainage and flood risk management. Journal of Flood Risk Management, DOI: 10.1111/jfr3.12146. Tadesse, Y.B. und Fröhle, P.: AN INTEGRATED APPROACH TO SIMULATE FLOODING DUE TO RIVER DIKE BREACH, Proceedings of the 11th International Conference on Hydroinformatics(HIC 2014), 17 – 21 August 2014, The City College of New York, New York City, USA. Dreier, N., Fröhle, P., Salecker, D., Schlamkow, C. and Xu, Z., The use of a regional climate- and wave model for the assessment of changes of the future wave climate in the western Baltic Sea, Proceedings of the 34th International Conference on Coastal Engineering. Seoul, Korea, 15-20 June 2014. DOI: http://dx.doi.org/10.9753/icce.v34.management.28 Hellmers, S.; Manojlović, N.; Palmaricciotti, G., Fröhle, P.: Modelling sustainable drainage and decentralised flood mitigation techniques, 13th International Conference on Urban Drainage, ICUD 2014, Sarawak, Malaysia