

STEFAN SCHIMMELS

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EDUCATION:

- 10/1994 – 08/1999 Civil Engineer (Dipl.-Ing) – specialization: Hydraulic Engineering
Bergische Universität Gesamthochschule Wuppertal
Diploma Thesis: „Entwicklung eines Ansteuerungsmechanismus einer Wellenmaschine nach Theorie zweiter Ordnung zur Erzeugung mono-, bi- und multichromatischer Wellengruppen“ (in German)
- 12/2007 Doctoral Degree (Dr.-Ing)
Leibniz Universität Hannover
PhD Thesis: „Numerical Simulation of the Influence of Circular Cylinders on Mixing and Entrainment in Natural Density Currents”

PROFESSIONAL EXPERIENCE:

- 03/1996 – 07/1999 Student Assistant
Institute for Hydraulic Engineering and Water Management
Bergische Universität Gesamthochschule Wuppertal
- 08/1999 – 10/1999 Scientific Assistant
Institute for Hydraulic Engineering and Water Management
Bergische Universität Gesamthochschule Wuppertal
- 11/1999 – 10/2000 Scientific Assistant
Institute for Geotechnics and Hydraulic Engineering
Universität Leipzig
- 11/2000 – 12/2007 Scientific Assistant
Institute for Fluid Mechanics
Leibniz Universität Hannover
- 01/2008 – 09/2008 Researcher
Franzius-Institute for Hydraulic and Coastal Engineering
Leibniz Universität Hannover
- 10/2008 – today Senior Researcher and Operations Manager
Forschungszentrum Küste (FZK)
Joint Institution of Leibniz Universität Hannover and Technische Universität Braunschweig

RESEARCH INTERESTS:

Physical Modeling
Numerical Modeling
Sediment Transport
Wave Structure Interaction
Maritime Energy

PROFESSIONAL MEMBERSHIPS:

IAHR – International Association for Hydraulic Research
HTG – Hafentechnische Gesellschaft
GMT – Gesellschaft für Maritime Technik
Fachausschuss Küstenschutzwerke (HTG)
DKE/GK 385 "Meeresenergie-, Meeresströmungs-, Wellen- und Gezeiten-Kraftwerke"
(Standardization Committee)

MOST IMPORTANT PUBLICATIONS OF THE LAST 5 YEARS:

- Schimmels, S.**, Sriram, V., Didenkulova, I. (2015). How to bring a tsunami into the laboratory. Coastal Engineering, submitted.
- Schimmels, S.**, Sriram, V., Didenkulova, I. (2014). On the generation of Tsunami in a large scale wave flume. 34th International Conference on Coastal Engineering (ICCE), Seoul, South Korea.
- Vousdoukas, M.I., Kirupakaramoorthy, T., de la Torre, M., Wübbold, F., Wagner, W., **Schimmels, S.**, Oumeraci, H. (2014). The role of combined laser scanning and video techniques in monitoring wave-by-wave swash zone processes. Coastal Engineering, 83, 150-165.
- Fernandez, H., **Schimmels, S.**, Sriram, V. (2013). Focused wave generation by means of a self correcting method. International Conference on Offshore and Polar Engineering (ISOPE - 2013), Anchorage, USA.
- Ramachandran, K., **Schimmels, S.**, Stagonas, D., Müller, G. (2013). Measuring Wave Impact on Coastal Structures with High Spatial and Temporal Resolution – Tactile Pressure Sensors a Novel Approach. 35th IAHR World Congress, Chengdu, China.
- Schimmels, S.**, Vousdoukas, M.I., Wziatek, D., Becker, K., Gier, F. Oumeraci, H. (2012). Wave run-up observations on revetments with different porosities. 33rd International Conference on Coastal Engineering (ICCE), Santander, Spain.
- Irschik, K., Oumeraci, H., **Schimmels, S.** (2010). BREAKING CRITERIA FOR LABORATORY EXPERIMENTS BASED ON THE PHASE-TIME METHOD (PTM). 32nd International Conference on Coastal Engineering (ICCE). Shanghai, China.