



## Prof. Dr.-Ing. Tobias Bleninger

### General Information

Birth data: 21<sup>st</sup> October 1972 • Marbach (Neckar) • Germany

Marital status: married • two children

Nationality: German

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### Higher Education

- Dr.-Ing. • Karlsruhe Institute of Technology (KIT), Germany • 2006 • Title: “Coupled 3D hydrodynamic models for submarine outfalls: Environmental hydraulic design and control of multiport diffusers”, awarded with “Ehrensensator Huber Preis”
- Dipl.-Ing. • KIT • 2000 • Civil Engineering, subject Hydraulic & Environmental engineering

### Professional experience

- Vice-Coordinator • Graduate Program of Water Resources and Environmental Engineering (PPGERHA) • Federal University of Paraná (UFPR), Brazil • Aug. 2016 - Jul. 2018
- Coordinator • Graduate Program of Water Resources and Environmental Engineering (PPGERHA) • Federal University of Paraná (UFPR), Brazil • Aug. 2012 - 2016
- Professor Associado • UFPR • Aug. 2019 - today
- Professor Adjunto • UFPR • Aug. 2011 - 2019
- Visiting Professor • UFPR • Oct. 2009 - July 2011
- Group leader “Environmental Fluid Mechanics” • IfH, KIT • Oct. 2007 - Sep. 2011
- Partner of MixSys Consulting consortium - Mixing and Transport in Environmental Fluid Systems • 2009 - 2011
- Course coordinator, research assistant • KIT, IfH • Apr. 2003 - Sept. 2008
- Research and teaching assistant • KIT, IfH • July 2000 - March 2003

### Research Interests

- Environmental Fluid Mechanics: Jets and plumes, mixing and transport processes, gas-transfer at interfaces, submarine outfalls, wastewater, cooling water and desalination brine discharges
- Hydraulics: multiport diffusers, river hydraulics, mixing or treatment tank hydraulics
- Physical and numerical modeling of environmental flows

### Teaching

- Lecturer: “Hydrodynamic Modeling with Delft3D” • Karlsruhe Institute of Technology • 11. - 15. Oct., 2019
- Lecturer: “Hydrodynamic Modeling with Delft3D” • Karlsruhe Institute of Technology • 2 - 4. May, 2018
- Lecturer: “Environmental Fluid Mechanics I” (Portuguese) • UFPR • undergraduate • Mar. 2013-today
- Lect.: “Environmental Fluid Mechanics II” (Portuguese) • UFPR • undergraduate • Aug. 2012-today
- Lect.: “Open Channel Flow” (English) • UFPR • graduate • Aug. 2014-2016
- Lect.: “Stratified Flows” (English) • UFPR • graduate • Aug. 2011-today
- Lect.: “Applied Mathematics I + II” (Portuguese) • UFPR • undergraduate • Aug. 2011-today
- Lect.: “Transport Phenomena” (Portuguese) • UFPR • graduate • Jun. 2010-2013
- Lect.: “Environmental Hydraulics” (Portuguese) • UFPR • undergraduate • Mar. 2010-Dec. 2010
- Lect.: “Fluvial Hydraulics” (Portuguese) • UFPR • undergraduate • Mar. 2010-Jul. 2011
- Lect.: “Discharge models for effluent discharges into coastal waters - case study for desalination brine discharges” (Spanish) • Ph.D. course • University of Cantabria, Santander, Spain • 01.-05. June, 2009
- Lect.: “Environmental Fluid Mechanics I: Mass Transfer + Diffusion” (English) • KIT • Oct.2008-Feb. 2009
- Lect.: “Environmental Fluid Mechanics II: Stratified Flow and Buoyant Mixing” (English) • KIT • Apr. 2007- Sept. 2009
- Lect.: “Environmental Fluid Mechanics III: Modeling Applications” (German) • KIT • Apr.2007-Sept. 2009
- Lect.: “Experimental Hydraulics” (German) • KIT • Oct. 2007- Sept. 2009
- Lect.: “Internal diffuser hydraulics, Jets and Plumes, Mixing Models” (English) • Ph.D. course • University of Cantabria, Santander, Spain • 26./27. June, 2008

- Course coordinator at IfH, KIT • April 2003 - Sept. 2008 • incl. development of: HYDRO - HYDromechanic Resources Online: Multimedia teaching contents (<http://hydro.ifh.uni-karlsruhe.de>), development of teaching web pages, development, realization and coordination of teaching evaluation
- Lect.: “Internal diffuser hydraulics“, „Near-field, far-field coupling“ (English) • Ph.D. course • University of Cantabria, Santander, Spain • 23.-27.09.07
- Lect.: “Transport processes in the environment” (German) • Ph.D. course • KIT • Oct. 2006 - Feb. 2007
- Course assistance: “Hydromechanics for Resources Engineering” • KIT • Oct. 2004 - Feb. 2005
- Online course co-ordination: HydroWeb: "Web-based Collaborative Engineering in Hydrosience" • KIT • April 2004 - August 2005
- Course assistance: “Hydromechanics” • KIT • Oct. 2000 - March 2003, Oct. 2006 - March 2007
- Course assistance: “Laboratory studies” • KIT • Oct. 2000 - March 2004

### Short term assignments

- Research stay • Georgia Institute of Technology, USA • December/January 2005/2006 • Worldbank project
- Research stay • Universidade de São Paulo, Brazil • August 2002, Nov. - Dec. 2003 • “PROBRAL (DAAD project): “Reducing water pollution on the São Paulo Coast: Development of methodologies for planning and design of multiport diffusers for treated wastewater discharges”
- Research stay • Universidade do Porto, Portugal • September 1998 • Experiments on particle laden jets
- Trainee • Weber Ingenieure, Pforzheim • May 1998 - August 1998 • development and translation (pt-de-pt) of bidding and tender documents for waste water treatment plant projects in Portugal
- Participant: IAHR course (one week): „Disposal of effluents in the aquatic environment“ • Sept. 1998 • Universidade do Porto, Portugal
- Trainee • Bautest (Walter-Bau AG), Karlsruhe • July 1995 - Dec. 1999 (part-time) • concrete quality testing
- Trainee • SANEPAR, Curitiba, Brazil • October 1996 - March 1997 • planning of sewer system for poor suburb
- Coordinator of student exchange program • AIESEC, Karlsruhe • October 1996 - March 1998 • Exchange project for students of civil engineering from Karlsruhe University going to Curitiba, Brazil

### Research projects

*(own projects as principal investigator, or \*: member of project team, or \*\*: coordinator of project)*

- \*\*Coordinator of joint research projects UFPR-SANEPAR (Paraná Sanitation Company, Curitiba, Brazil): Integrated management of reservoirs: internal and external processes (Gestão integrada de reservatórios, influência de processos internos e externos); Wastewater treatment and energetic recovery (Tratamento de Esgotos e Valorização Energética de Subprodutos de Estações de Tratamento de Esgoto – ETE’s); Integrated sanitation for water and energy conservation (Saneamento Integrado Sustentável para Conservação de Água e Energia em Áreas Urbanas); Sanitation in coastal areas (with outfall systems) (Saneamento em Zonas Costeiras Urbanizadas); Development, integration and application of process understanding in water treatment stations (Desenvolvimento, Integração e Aplicação de Processos em Estações de Tratamento de Água), supported by UFPR and UFPR, Dec. 2019 - Nov. 2024
- \*Enquadramento: “Dynamic classification of surface waters with reservoirs for river basin management”, financed by the Brazilian Water Agency (ANA). Coordinator of reservoir modeling group. Nov. 2018 - today
- \*\*MuDaK: Multidisciplinary Data Acquisition as a Key for a globally applicable Water Resource Management", financed by BMBF within the GROW program. Coordinator for Brazilian Part. Apr. 2017 - May 2020
- SeWaMa: Innovative approaches for future sediment and water management in Brazil, funded by CAPES and DAAD, Dez. 2015 - Jun. 2018
- Revision of the numerical modeling of the Tocantins Waterway, funded by DNIT, Jan. 2015-Dec. 2015
- \*Evaluation of the navigability of the Paraguay River Waterway, funded by DNIT, Aug. 2014-Dec. 2015
- Coupling of hydrodynamic and water quality models, funded by CNPq, Jan. 2012-Jan 2014
- \*Development of measurement techniques based on particle image velocimetry and geo positioning systems, funded by the CNPq, and Fundacao Araucaria, Jan. 2011-Jan. 2013
- \*Green house gas emissions from Brazilian hydropower reservoirs, funded by the Brazilian Energy Agency (ANEEL), June 2010 - 2013
- \*\*Residence times in drinking water storage tanks, Aug. 2007–Jul. 2009, funded by German Ministry of education and research (BMBF) in cooperation with the Waterworks Karlsruhe (Stadtwerke Karlsruhe)
- \*Fluid Mechanical Optimization of Electro-Deposition Process For Thin Film Solar Cell Production, August 2006 – December 2008, EifER, funded by EdF

- Updating the CasCade-Model for the Danube river from Straubing to Vilshofen using the geo-information-system based pre-processor IGEL, Jan.2009-Jun. 2010 + Aug.2006-Oct.2006, funded by: German Fed. Waterways Research Institute (BAW)
- KIT Start-up project “Water Modeling Center Karlsruhe (WaMoK)” within the KIT-Competence area „Earth and Environment“, funded by KIT, Aug. 2008 - July 2009
- BrineDis: Environmental planning, prediction and management of brine discharges from desalination plants, funded by Middle East Desalination Research Center (MEDRC), Dec. 2007-Nov. 2009
- Internal hydraulics and near-field calculations for the Mersin outfall, funded by Sistem Yapi, Turkey, 2007/2008
- Scientific support and programmatic development for CORMIX (Decision support system for analysis of discharges into water bodies), funded by MixZon Inc., Portland, Oregon, USA, 2007-2009
- \*Design and environmental modeling for proposed multiport diffuser outfall at Berazategui for the city of Buenos Aires into the Rio de la Plata. Environmental evaluation of new municipal waste water discharge outfall for the City of Goya, Corrientes into the Parana River, funded by Latinoconsult, Buenos Aires, Argentina, 2007/2008
- Hydraulic assessment of the flow through the sensor carrier for a pipe-line inspection tool, funded by General Electric-PII Pipetronix GmbH, Aug. 2007 - Oct. 2007
- 3-D modeling of Cartagena outfall, World Bank, 2006
- 1-D - unsteady hydraulic model of the Rhine river from Speyer to Worms: Process manual and numerical simulations with the CasCade system, Aug. 2005 - Oct. 2006, funded by German Federal Waterways Research Institute (BAW)
- \*Feasibility study for the simulation of drinking water storage tanks using CFX, funded by Waterworks Karlsruhe, Germany, 2005
- PROBRAL (DAAD exchange project): “Reducing water pollution on the São Paulo Coast: Development of methodologies for planning and design of multiport diffusers for treated wastewater discharges”, Jan. 2002 - Dec. 2004, funded by DAAD
- \*Drainage master plan of the city Mainz - design of the discharge structure Gassnerallee, hydraulic calculations to optimize the discharge structure, funded by ICON, Germany, 2004
- 2-D and 3-D-Flow-, Transport- and Water quality simulations for coastal and inland waters: coupling of the Delft3D system with the Mixing Zone System CORMIX, July 2002 - present, funded by Deltares (Netherlands)

#### **Professional Societies and memberships**

- Journal for Applied Water Engineering and Research, IAHR and WCCE, founding Editor in chief • 2013 - 2016
- Water Science and Technology, IWA Journal, Associate Editor • since 2007
- Engineering and Computational Mechanics , Institution of Civil Engineers, UK, Member of Editorial Advisory Panel • 2012 - 2016
- DWA (German Ass. for Water resources, waste water and waste) • member of working group WW-3.4 "Mixing and Transport problems of discharges" since 2001 • member of expert committee WW-3 „Hydraulik“, 2006 - 2010
- Int. Association for Hydro-Environment Engineering and Research (IAHR) • member since 2003 • Vice Chair (2010-2012), Chair (2012 - 2014), Past-chair (2014 - 2016), co-opted member (since 2016) of IAHR/IWA Joint Committee on Marine Outfall System
- Int. Water Association (IWA) • member since 2007 • Vice Chair (2010-2012), Chair (2012 - 2014), Past-chair (2014 - 2016), co-opted member (since 2016) of IAHR/IWA Joint Committee on Marine Outfall System
- AEBA (Association of Academics and Stipends from Germany in Brazil) • member, and social director • 2011 - 2018
- University Karlsruhe • member of senate • Oct. 2006 - Sept. 2009
- Karlsruhe Institute of Technology (KIT) • member and member of chair of senate • Oct. 2007 - Sept. 2009
- University Karlsruhe • member of council of civil, environmental and geotechnical dept. • Oct. 2006 - Sept. 2009
- EWB – Engineers without borders University Karlsruhe • since 2004 • founding member

#### **Awards**

- Ehrensenator Huber Prize • University Karlsruhe, Germany • Ph.D. thesis “Coupled 3D hydrodynamic models for submarine outfalls: Environmental hydraulic design and control of multiport diffusers”, 2007
- Robert Alfred Carr Prize • Institution of Civil Engineers, UK • Paper: "Mixing zone regulation for effluent discharges into EU waters", 2012
- Prémio ANTAQ 2017 • ANTAQ - National Agency of Waterway Transport, Brazil • 3<sup>rd</sup> best scientific-technical paper: "Avaliação hidromorfológica do uso de espigões em hidrovias - Estudo de caso: Passo do Jacaré (*Hydromorphologic evaluation of the use of groynes in waterways - case study of the Jacaré branch of the Paraguay River*)", Gustavo Pacheco Tomas and Tobias Bleninger

### Conference and short course organizations and invited lecturing

- XIV Encontro Nacional de Engenharia de Sedimentos (XIII ENES) • Campinas/SP • 09-13.11.2020 • Member of Scientific Committee
- 38<sup>th</sup> World Congress of the IAHR • Panama • 2019 • Member of Scientific Committee
- Invited lecturer: Conferencia Final do Projeto NoPa • GIZ • Brasilia, Brazil • 24.05.2018
- Capacity building courses on flow, velocity, bathymetry and sediment measurements • GIZ and SANEPAR • Curitiba • 15.02.18 - 22.02.2018
- 18<sup>th</sup> Congreso Latinoamericano de Hidraulica • IAHR • Buenos Aires, Argentina • 18 - 21.09.2018 • Member of Scientific Committee
- 8<sup>th</sup> International Symposium on Environmental Hydraulics • IAHR • University of Notre Dame, Indiana, USA • June 4-7, 2018 • Member of International Scientific Committee
- 13<sup>th</sup> International Conference on Hydrosience & Engineering • IAHR • Chongqing Jiaotong University • Chongqing, China • June 18 -22, 2018 • Member of International Scientific Committee
- Organizer and lecturer: “Gerhard Jirka Summer School on Environmental Fluid Mechanics” • IAHR • Campo Grande, Brazil • 8.-10.01.2018 • Lectures on: Stratified Flows and Computational Fluid Dynamics
- Invited lecturer: Submarine Outfalls - Case study of Florianopolis • Congresso Catarinense de Saneamento • Florianopolis, Brazil • 31.08. - 01.09.2017
- Invited lecturer: Sediment and Water Management in Brazil • Event of Ministry of Science and Innovation • Promovendo a Inovação através da Conexão entre a Ciencia e a Pratica: Uma experiencia da Cooperação Brasil-Alemanha • 15/03/17 • Brasilia
- Organizer: Innovative approaches for reservoir management • Espaço Tarumã, SANEPAR • 30/06/17 • Curitiba • Brazil
- Organizer: Workshop SeWaMa: Innovative approaches for future sediment and water management • 20.09.2016 • SANEPAR, Curitiba, Brasil
- Keynote (ANALYSIS OF SEDIMENT DYNAMICS FOR PORT OPERATIONS USING COMBINED MODELING APPROACHES AND FIELD SURVEYS) and member of scientific committee: Arabian Coast 2016, 3<sup>rd</sup> International Conference on Coastal Zone Management and Engineering, 20.-23.11.2016, Dubai, United Arab Emirates
- Invited lecturer: "O sistema do emissario submarine: tratamento, disposicao e autodepuracao. Processos, medicoes e modelagem (The outfall system: treatment, disposal and biodegradation. Processes, measurements and modeling. • 7o encontro tecnico da CASAN • 29.-30. 06.2016 • CASAN, Florianopolis, Brazil
- Invited lecturer: "O Sistema do Emissário Submarino: Tratamento, Disposição e Autodepuração (The outfall system: treatment, disposal and biodegradation) • XVII Silubesa, Simposio Luso-brasileiro de engenharia sanitaria e ambiental • 06.-08. 06.2016 • Florianopolis, Brazil
- Keynote, co-organizer, member of scientific committee • International Symposium on Outfall Systems 2016 • 10.-13.05.2016, University of Ottawa , Canada
- 36<sup>th</sup> IAHR World Congress • Den Haag, the Netherlands • 2015 • Member of Scientific Committee
- Invited lecturer: “Energy and Water Infrastructure projects in Brazil: Challenges for Environmental Hydraulics”, DHI-NTU Centre, Singapore, 3 to 10 December, 2014
- Lect.: "Längenmaßstabsmodelle und praktische Anwendungen", DWA Seminar, Einleitungen in Gewässer – Methoden, Modelle und Anwendungen, 8.12.14, Darmstadt, Germany.
- Lect.: "Flow and water quality modeling for reservoirs", Summer Workshop in reservoir management, GHG emissions and measurement techniques, KIT, Karlsruhe, 15 to 16 of July, 2014
- Intl. Conference on Desalination, Environment and Marine Outfall Systems (SQU, IAHR, IWA, KAUST, MEDRC, NCEDA) • Muscat, Oman, April. 13.-16..2014 • Member of Scientific Committee
- 6<sup>th</sup> International Conference on Flood Management - ICMF6 • Sao Paulo • 16-18 September, 2014 • Member of Scientific Committee
- Invited lecturer: Dessalinização e Reuso de Aguas, " Rejeito da Osmose Reversa em Dessalinização: Boas Praticas e Considerações quanto ao seu Lançamento" • Sao Paulo, 29.09.2013
- Invited lecturer: “II KIT Alumniclub Brazil Seminar: Technology, Culture, Society”, sponsored by DAAD, Recife, Brazil, 22 to 25 September, 2013
- 11<sup>th</sup> International Conference on Hydrosience and Engineering • Hamburg, 28 September to 2 October, 2014 • Member of Scientific Committee
- KAUST Seawater Intakes and Desalination Brine/Wastewater Outfalls: Coastal Environmental Impacts in the GCC Region • Lecture: "Transition from Near Field to Far-Field Modeling", Jeddah, Saudi Arabia, October 4-7, 2013

- 7<sup>th</sup> Intl. Symposium on Environmental Hydraulics (ISEH 2014) • Singapore, Jan. 07.-09.01.2014 • Member of Scientific Committee
- 35<sup>th</sup> IAHR World Congress • Chengdu, China, Sep. 08.-13.2013 • Member of Scientific Committee
- Chair of Organizing Committee "Expert Seminar on Environmental Issues of Renewable Energies: Hydropower and climate change" • organized by the KIT-Alumni club in cooperation with the UFPR and LACTEC supported by AEBA and financed by the DAAD, 26 to 28 November 2012, Curitiba, Brazil
- Coordinator and lecturer: "Introduction to the Hydrodynamic Model Delft3D", sponsored by LACTEC, Curitiba, Brazil, 03.-05.7.12 and 27.-29.2.12
- Coordinator "Short course Introduction to image based flow velocimetry" • Federal University of Paraná • 18.-20.09.2012
- Invited lecturer: "Natural Hazards - Research on natural disasters, civil defense, disaster prevention, and aid", sponsored by DAAD, Teresópolis, Brazil, 15.-17.6.12
- Invited lect.: Conference "EnviroTech 2012", organized by Confederation of Indian Industry, Vadodara, India, 3 February 2012
- Coordinator and lecturer: "Modeling and design of outfalls using CORMIX", sponsored by the Graduate Program on Water Resources and Environmental Engineering, Curitiba, Brazil, 08.-12.8.11
- International Symposium on Outfall Systems • Vice-chair of scientific committee and organizer • Mar del Plata, Argentina, 15.- 18.05.11
- Invited lect.: "II Encontro Nacional de Gestao de Residuos, Painel Praticas de Reuso e Reciclagem no Saneamento Ambiental" • 6.5.2011, Curitiba, Brazil
- Organizer: "Short course Surface Water Quality", organized by UFPR and KIT, Curitiba, 17-22 March 2011
- Invited lect.: Short course "Seawater Desalination and the Environment", organized by EU project Horizon 2020, Tel Aviv, Israel, 22-25 February 2011
- XXIV Congreso Latinoamericano de Hidráulica • Member of scientific committee and keynote lecturer: "Emissarios Submarinos e subfluviais" • Punta del Este, Uruguay, 21.- 25.11.10
- Intl. Conf. on Coastal Zone Engineering and Management, Arabian Coast 2010 • Member of scientific committee and keynote lecturer: "Brine Discharges from Desalination Plants: Mixing Processes, Modelling Techniques and Environmental Impact Regulations", 1-3.11.2010
- Coordinator and lecturer: "Modelling and Design of Sea Outfalls for wastewater, cooling water and desalination plant discharges", sponsored by IAHR, Athens, Greece, 21.-22.6.10
- Invited lect.: Workshop: Modelagem e projeto de emissaries submarines utilizando o modelo CORMIX", organized by ASA South America, Sao Paulo, 8/4/2010
- Invited lect.: Short course "Seawater Desalination and the Environment", organized by the Bushnak Academy, Jeddah, Saudi Arabia, 21-22 February 2010
- Invited lect.: Advanced Study Institute on Recent Developments in Nearshore Coastal Water Quality Research: Prediction, Hydro-biological Interactions and Management, organized by the University of Hong Kong and funded by the Croucher Foundation, Dec. 14 – 19, 2009
- Invited lect.: DME Seminar "Introduction to Seawater Desalination, Technology – Markets - Environment", May 17th, 2009, Baden-Baden
- Coordinator: Workshop Brinedis along with EDS Conference and Exhibition on Desalination for the Environment, Clean Water and Energy, 17 - 20 May 2009, Institute for Hydromechanics, University Karlsruhe
- Invited lect.: Workshop "Water Framework Directive and Emerging Pollutants - Measures to minimize river contamination by WWTP discharges", 21– 22 April 2009, Federal Institute of Hydrology (BfG), Koblenz, Germany,
- Coordinator and lecturer: "Environmental issues in seawater desalination", organized by DME (German Desalination Society), Berlin, Germany, 1.-3.4.09
- Invited lect.: "Workshop: Desalination and the Environment", organized by MEDRC (Middle East Desalination Research Center), Amman, Jordan, 1.-3.12.08
- Coordinator and lecturer: "Workshop: Brine Discharge Management - Environmental planning, prediction and management of brine discharges from desalination plants", MEDRC + Sultan Qaboos University (Oman), 03./04. November, 2008, Muscat, Sultanate of Oman
- International Conference on Marine Waste Water Discharges and Coastal Environment • Dubrovnik, Croatia, Oct. 27.- 31.2008 • Member of Organizing Committee
- Invited lect.: "Workshop: Discharge Management with CORMIX - Planning and analysis of wastewater, cooling water and desalination plant discharges for environmental impact studies, 26./27. June, 2008, Santander, Spain
- Invited lect.: "AIDIS - Seminario Itinerante - Emisarios subfluviales" • Buenos Aires, Corrientes (Argentina), Asuncion Paraguay) • 10.-14.03.2008

- Coordinator and lecturer: “Workshop - BrineDis: Environmental planning, prediction and management of brine discharges from desalination plants, 21./22.02.08, Institute for Hydromechanics, University Karlsruhe
- Coordinator and lecturer: “Workshop: "Offene Fragestellungen bei Trinkwasserspeichern", 24.01.2008, Stadtwerke Karlsruhe
- International Symposium on Environmental Hydraulics • convenor for the session on ocean outfalls • Tempe, Arizona, 4.-7.12.2007
- International Conference on Marine Waste Water Discharges and Marine Environment - MWWD 2006 • Vice chair-man of advisory committee • Antalya, Turkey, 06.11.06 – 10.11.06
- Invited lect.: „Environmental Fluid Mechanics“, Advanced School (one week) • University Karlsruhe • June 2006
- Invited lect.: “Design of Ocean Outfalls for Heated Water and Wastewater Discharges”, short course • Seoul, South Korea • 9.9.-10.9.05
- International Conference on Marine Waste Water Discharges and Marine Environment - MWWD 2004 • Member of the Scientific & technical committee • Catania, Italy, 27.09.04 – 02.10.04
- Coordinator and lecturer: “Hydraulics of the waste water treatment plant – outfall systems”, short course • Catania, Italy • 24 - 25.09.04
- Invited lect.: “Submarine Outfalls: Design Considerations and Environmental Performance Monitoring”, workshop • São Paulo, Brazil • 1-5.12.2003
- Coordinator: “Hydroinformatics in research and teaching” • University Karlsruhe • 21-22.06.2001
- Coordinator and lecturer: “CORMIX course” • University Karlsruhe • 07-08.12.2000

## Publications

(see also Researchgate with citation metrics: [https://www.researchgate.net/profile/Tobias\\_Bleninger/stats](https://www.researchgate.net/profile/Tobias_Bleninger/stats))

### Journal articles:

1. Polli, Bruna Arcie, & Bleninger, Tobias. (2019). Comparison of 1D and 3D reservoir heat transport models and temperature effects on mass transport. RBRH, 24, e30. Epub July 01, 2019. <https://dx.doi.org/10.1590/2318-0331.241920190023>
2. Horita, C.H., Bleninger, T., Morelissen, R., Carvalho, J.L.B., Dynamic coupling of a near with a far field model for outfall discharges, Journal of Applied Water Engineering and Research, 2019, DOI: 10.1080/23249676.2019.1685413
3. Marcon, L., Bleninger, T., Männich, M., Hilgert, S., „High-frequency measurements of gas ebullition in a Brazilian subtropical reservoir—identification of relevant triggers and seasonal patterns“, Environ Monit Assess (2019) 191: 357. <https://doi.org/10.1007/s10661-019-7498-9>
4. Frigo, A.L., Zentgraf, R.D., Bleninger, T., “Two-dimensional Vessel-Current Interaction Model for Inland Waterways Assessment”, JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING, V.145, I:1, 2018. DOI: 10.1061/(ASCE)WW.1943-5460.0000494
5. Bueno, R. D. C., & Bleninger, T. B. (2018). Wind-induced internal seiches in Vossoroca reservoir, PR, Brazil. RBRH, 23. DOI: 10.1590/2318-0331.231820170203
6. Polli, B. A., & Bleninger, T. (2018). Reservoir 1D heat transport model. Journal of Applied Water Engineering and Research, 1-16. DOI: 10.1080/23249676.2018.1497560
7. Tomas, G.P., Bleninger, T., Rennie, C., Guarneri, H., “Advanced 3D Mapping of Hydrodynamic Parameters for the Analysis of Complex Flow Motions in a Submerged Bedrock Canyon of the Tocantins River, Brazil”, Water, 10, 4, p. 367, 10.3390/w10040367
8. Reinoso, J.F., Gonçalves, J.E., Perreira, C., Bleninger, T., “Cartography for Civil Engineering Projects: Photogrammetry Supported by Unmanned Aerial Vehicles”, Iranian Journal of Science and Technology-Transactions of Civil Engineering , 10.1007/s40996-017-0076-x, 2017
9. Mannich, M., Fernandes, C.S.V., Bleninger, T., „Uncertainty Analysis of gas flux measurements at air-water interface using floating chambers“, Ecohydrology & Hydrobiology, Vol. 1, P. 123, 2017, 10.1016/j.ecohyd.2017.09.002,
10. Yoshioka Bernardo, J.W., Mannich, M., Hilgert, S., Fernandes, S.C.V., Bleninger, T., "A method for the assessment of long-term changes in carbon stock by construction of a hydropower reservoir", Ambio (2017). doi:10.1007/s13280-016-0874-6
11. Bleninger, T., Falkenberg, A., Trevisan, A., Maranhao, M.O., Ishikawa, M., Ribeiro, P., Barletta, R., "Combining measurements, models and decision support systems to optimize outfall siting", Revista DAE, 204, 2016, p. 81 - 93
12. Bleninger, T., Kotsuka, L.K., "Conceito de água virtual e pegada hídrica: estudo de caso da soja e óleo de soja no Brasil / Concepts of virtual water and water footprint: case study of soybeans and soybean oil in Brazil", Recursos Hídricos, Associação Portuguesa dos Recursos Hídricos, Volume 36, No. 01, 2015

13. Mannich, M., Furtado Resende, J., Scapulatempo Fernandes, C.V., Yoshioka Bernardo, J.W., Zahn, E., Bleninger, T. "CICLAR: Modelo 0D para Dinâmica de Carbono em Lagos e Reservatórios. CICLAR: 0D Model for Carbon Dynamics in Lakes and Reservoirs. *Revista Brasileira de Recursos Hídricos*, vol. 20 no .1, p. 237 - 248, 2015
14. Abubaker Elhakeem, Walid Elshorbagy, Tobias Bleninger, Long-term hydrodynamic modeling of the Arabian Gulf. *Mar. Pollut. Bull.* (2015), <http://dx.doi.org/10.1016/j.marpolbul.2015.03.020>
15. van der Merwe, R., Bleninger, T., Acevedo-Feliz, D., Lattemann, S., Amy, G., "Combining autonomous underwater vehicle missions with velocity and salinity measurements for the evaluation of a submerged offshore SWRO concentrate discharge", *J. of Applied Water Engineering and Research*, Vol. 2, Issue 2, p. 118-139, 2014, DOI: 10.1080/23249676.2014.980443
16. Feitosa, R.C., Rosman, P.C.C., Bleninger, T., Wasserman, J.C., " Coupling bacterial decay and hydrodynamic models for sewage outfall simulation", *J. of Applied Water Engineering and Research*, Vol. 1, Issue 2, p. 137-147, 2014, DOI:10.1080/23249676.2013.878882
17. Morelissou, R., Kaaij, T., Bleninger, T., " Dynamic coupling of near field and far field models for simulating effluent discharges", *Water Science & Technology*, Vol 67, No 10, pp 2210–2220, 2013, doi:10.2166/wst.2013.081
18. Abessi, O., Saeedi, M., Bleninger, T., Davidson, M., 2012, "Surface discharge of negatively buoyant effluent in unstratified stagnant water", *Journal of Hydro-environment Research*, DOI: 10.1016/j.jher.2012.05.004
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#### **Languages**

- German mother tongue
- English fluently in word and script
- Portuguese fluently in word and script
- Spanish good
- French basics