



Prof. Dr.-Ing. Tobias Bleninger

General Information

Birth data: 21st 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 - present
- Coordinator • Graduate Program of Water Resources and Environmental Engineering (PPGERHA) • Federal University of Paraná (UFPR), Brazil • Aug. 2012 - 2016
- Professor Adjunto • UFPR • Aug. 2011 - present
- 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 • since Jan. 2009
- Course coordinator, research assistant • KIT, IfH • Apr. 2003 - Sept. 2008
- Research and teaching assistant • KIT, IfH • July 2000 - March 2003

Teaching

- 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 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

Research projects

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

- 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 • since 2011
- 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 - Natinoal Agency of Waterway Transport, Brazil • 3rd 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 waterwas - case study of the Jacaré branch of the Paraguay River*", Gustavo Pacheco Tomas and Tobias Bleninger

Conference and short course organizations and invited lecturing

- 8th Internationl Symposium on Environmental Hydraulics • IAHR • University of Notre Dame, Indiana, USA • June 4-7, 2018 • Member of International Scientific Committee
- 13th Internationl 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 Tatumã, SANEPAR • 30/06/17 • Curitiba • Brazil
- 38th World Congress of the IAHR • Panama • 2019 • Member of Scientific Committee
- 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, 3rd 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
- 36th 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
- 6th International Conference on Flood Management - ICMF6 • Sao Paulo • 16-18 September, 2014 • Member of Scientific Committee
- Invited lecturer: Dessalinizacao e Reuso de Aguas, " Rejeito da Osmose Reversa em Dessalinizacao: Boas Praticas e Consideracoes quanto ao seu Lancamento" • Sao Paulo, 29.09.2013
- Invited lecturer: “II KIT Alumnclub Brazil Seminar: Technology, Culture, Society”, sponsored by DAAD, Recife, Brazil, 22 to 25 September, 2013
- 11th 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
- 7th Intl. Symposium on Environmental Hydraulics (ISEH 2014) • Singapore, Jan. 07.-09.01.2014 • Member of Scientific Committee
- 35th 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-Alumnclub 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 ResearcherID with citation metrics: <http://www.researcherid.com/rid/H-3269-2012>)

Journal articles:

1. 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
2. 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,
3. 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
4. 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
5. Bleninger, T., Kotsuka, L.K., "Conceito de agua virtual e pegada hidrica: 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
6. 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
7. 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](http://dx.doi.org/10.1016/j.marpolbul.2015.03.020)
8. 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
9. 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
10. 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
11. 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
12. Bleninger, 2012, *Desalination and Water-Reuse: Demand for Hydro-Environment Engineering and Research*, IAHR, *HydroLink* 1, 2012
13. M. Saeedi, A., A. Farahani, Abessi, O., Bleninger, T., 2012, "Laboratory Studies Defining Flow Regimes for Negatively Buoyant Surface Discharges into Crossflow", *J. of Environmental Fluid Mechanics*, Vol 12, 439-449, DOI 10.1007/s10652-012-9245-4
14. Froehner, S., Souza, D. B., Machado, K. S., Falcão, F., Fernandes, C. S., Bleninger, T., Neto, D. M., 2012, "Impact of coal tar pavement on polycyclic hydrocarbon distribution in lacustrine sediments from non-traditional sources", *Int. J. Environmental Science*, DOI: 10.1007/s13762-012-0044-8
15. Froehner, Sandro ; Machado, Karina Scurupa ; Dombroski, Luiz Fernando ; Nunes, Anderson Correa ; Kishi, Regina Tiemy ; Bleninger, Tobias ; Sanez, Juan . Natural Biofilms in Freshwater Ecosystem: Indicators of the Presence of Polycyclic Aromatic Hydrocarbons. *Water, Air and Soil Pollution*, v. 1, p. 1-5, 2012
16. Froehner, S., Scurupa Machado, K., Stefan E., Bleninger, T., Cordova da Rosa, E., de Castro Martins, C., 2012, "Occurrence of selected estrogens in mangrove sediments", *Marine Pollution Bulletin*, Vol. 64, I. 1, 2012, p. 75–79
17. Purnama, A., Al-Barwani, H.H. , Bleninger, T. , Doneker, R.L., 2011, "CORMIX simulations of brine discharges from Barka plants, Oman", *Desalination and Water Treatment*, 32 (2011) 329–338
18. Bleninger, T., Jirka, G.H., „Mixing zone regulation for effluent discharges into EU waters”, *Proceedings of the ICE - Water Management*, 165, 2011
19. Souza, D.B., Scurupa Machado, K., Froehner S. Scapulatempo C.F., Bleninger, T., Distribution of n-alkanes in lacustrine sediments from subtropical lake in Brazil, *Chemie der Erde* 71, 2011, 171–176
20. Viski, A.R., Werlich, R. M. C., Krueger, C.P., Huinca, S.M., Leandro, D., Bleninger, T. , Fernandes, C.V.S. , "Prototypes of monitoring devices for water levels and currents in coastal waters", *Journal of Coastal Research*, 27, 5, 618-621, 2011
21. Bleninger, T., "Bemessung mehrdüsigiger Einleitungsbauwerke“, *bbr Fachmagazin für Brunnen- und Leitungsbau*, 07-08/2010, p. 38 - 42
22. Bleninger, T., Niepelt, A., Jirka, G.H., "Desalination plant discharge calculator", *Desalination and Water Treatment*, 13, 2010, 156-173, doi: 10.5004

23. Delbos, S., Grand, P.P., Chassaing, E., Weitbrecht, V., Bleninger, T., Jirka, G.H., Lincot, D., and Kerrec, O., "Application of Randomly Firing Jet Arrays for Electrodeposition", *J. Electrochem. Soc.*, Vol. 156, Issue 11, pp. E161-E166, 2009
24. Delbos, S., Weitbrecht, V., Bleninger, T., Grand, P.P., Chassaing, E., Lincot, D., Kerrec, O., Jirka, G.H., "Homogeneous turbulence at an electrodeposition surface induced by randomly firing jet arrays", *Experiments in Fluids*, Vol. 46, Issue, 6, P. 1105-1114, 2009
25. Bleninger, T., Lattemann, S., Purnama, A., Al-Barwani, H.H., Doneker, R.L., Jirka, G.H., "BrineDis - Environmental planning, prediction, and management of BRINE DIScharges from seawater desalination plants", *Arab Water World (AWW) magazine*, Vol. XXXIII, issue No. 4, April 2009
26. Bleninger, T., Hofmann, B., „Optimierte Planung und Bewirtschaftung von Trinkwasserspeichern zur Vermeidung mikrobiologischer Verunreinigungen“, *energie / wasser-praxis*, 5/2008
27. Bleninger, T., Jirka, G.H., "Modelling and environmentally sound management of brine discharges from desalination plants", *Desalination* Vol. 221/1-3 pp. 585-597, 2008
28. Bleninger, T., Jirka, G.H., "First steps in modelling and design of coastal brine discharges", *Desalination and Water Reuse*, Aug/Sept - 2007
29. Jirka G.H., Bleninger T., Burrows R. & Larsen T., 2004, "Management of point source discharges into rivers: where do environmental quality standards in the new EC-water frame-work directive apply?", *Journal of River Basin Management*, Vol. 2, Issue 1
30. Bleninger T., Hauschild I., Jirka G. H., Leonhard D., Schlenkhoff., 2004, "Immissionsorientierte Bewertung von Einleitungen in Gewässer: Mischzonen oder Opferstrecken, wo gelten die Gütekriterien?“, *KA - Abwasser, Abfall*, 51.Jahrgang, Nr.3, March 2004; *Wasserwirtschaft*, 94.Jahrgang, Nr.4, April 2004
31. Jirka G. H., Bleninger T., Burrows R., and Larsen T., 2004, "Environmental Quality Standards in the EC-Water Framework Directive: Consequences for Water Pollution Control for Point Sources", *European Water Management Online (EWMO)*, 26/01/04
32. Jirka G. H., Bleninger T., Leonhard D., Hauschild I., March 2003, "Umweltqualitätsnormen in der EG-Wasserrahmenrichtlinie: Sinnvolles oder lästiges Attribut für Gewässermanagement?", *KA - Abwasser, Abfall*, 50.Jahrgang, Nr.3, März 2003

Conference proceedings:

1. Dall'agnol, P., Bleninger, T., Fernandes, C.V.S., "Proposta de classificação de corpos d'água através da análise de dados de qualidade dos sedimentos em bacias urbanas", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
2. Muhlenhoff, A.P., Fernandes, C.S.V., Bleninger, T., "Calibração de modelo hidrológico e hidrodinamico 1D em grandes bacias com escassez de dados - estudo de caso do alto Jequitinhonha - MG", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
3. Bueno, R.d.C., Bleninger, T., "Verificação da ocorrência de ondas internas no reservatório do Vossoroca", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
4. Mérida, L.M.R., Marcon, L., Bueno, R.d.C., Wosiacki, L.F.K., Mannich, M., Bleninger, T., "Avaliação experimental da dispersão da pluma de um jato denso", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
5. Luckner, M.Y.A., Polli, B.A., Fernandes, C.S.V., Bleninger, T., "Simulação térmica em reservatórios dendríticos: reflexões sobre calibração", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
6. Frigo, A.L., Bleninger, T., "Modelo do movimento de embarcações para análise de hidrovias internas", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
7. Marcon, L., Bleninger, T., Mannich, M., "Monitoramento contínuo de ebulição de gases em um reservatório subtropical", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
8. Bueno, R.d.C., Marcon, L., Wosiacki, L.F.K., Mérida, L.M.R., Mannich, M., Bleninger, T., "Correntes de gravidade e de intrusão produzidas pelo experiment lock-exchange", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
9. Braga, A.S., Bleninger, T., "Desenvolvimento de um amostrador de água pontual para avaliar perfis de sedimentos em suspensão em rios", Anais XXII Simpósio Brasileiro de Recursos Hídricos, 26.11.-01.12.2017, Florianópolis, Brasil
10. Bleninger, T., Marcon, L., Schumack, V.V., Mannich, M., Hilgert, S., Fuchs, S., Bilotta, P., Belger, L., "Innovative techniques for gas bubble measurements from lakes: Continuous record of bubble emissions from a subtropical reservoir using automated bubble traps", Proceedings 8o Simposio Brasil-Alemanha, Porto Alegre, 02.-07.10.2017
11. Guseva, S., Thiery, W., Tan, Z., Zhuang, Q., Joehnk, K., Polli, B.A., Bleninger, T., Wang, W., Yao, H., Stepanenko, V., "LakeMIP II: Focus on Vertical Gas Transfer", Physical Processes in Natural Waters: PPNW 2017, Hyytiälä Forestry Field Station, Finland, 21-25 August, 2017

12. Tomas, G.P., Rennie, C.D., Bleninger, T., "Estimates of spatial shear stress distribution from acoustic doppler current measurements in submerged bedrock canyons", Proc. Hydraulic Measurement & Experimental Methods Conference, Durham, New Hampshire, July 9-12, 2017
13. Polli, B., Bernardo, J.W.Y., Hilgert, S., Bleninger, T., Three dimensional heat transport modeling in Vossoroça reservoir, Proceedings of European Geosciences Union General Assembly 2017, 23-28 April, 2017, Vienna, Austria
14. Guarneri, H., Correia, R., Ratton, P., Bleninger, T., "Avaliações preliminares referentes a caracterização de raios de curvatura de canais de navegação no planejamento de hidrovias interiores", 26º Congresso Nacional de Transporte Aquaviário, Construção Naval e Offshore - SOBENA 2016, Rio de Janeiro, 8.-10.11.2016
15. Horita, C., Bleninger, T., Carvalho, J.L.B., Morelissen, R., van der Kaaij, T., "Numerical studies on the dynamic coupling of a near and a far Field model", Proc. International Symposium on Outfall Systems, Ottawa, 10-13.05.2016
16. Falkenberg, A.V., Barletta, R.C., Franklin, L., Ribeiro, P., De Lara, P.G., Bleninger, T., Trevisan, A.B., Dos Santos, V., "Optimizing outfall system configurations using decision support and numerical models. Case study of Santa Catarina Island, Brazil", Proc. International Symposium on Outfall Systems, Ottawa, 10-13.05.2016
17. Marcon, L., Horita, C.O., Bleninger, T., "Plume Analysis at the end of the near-field region", Proc. International Symposium on Outfall Systems, Ottawa, 10-13.05.2016
18. Ishikawa, M.M., Bleninger, T., Falkenberg, A.V., Barletta, R.C., Trevisan, A.B., Dos Santos, V., "Method to classify and visualize time series simulations of submarine outfalls", Proc. International Symposium on Outfall Systems, Ottawa, 10-13.05.2016
19. Barletta, R.C., Ribeiro, P., Falkenberg, A.V., Maranhão, M.O.A., Franklin, L., Benedet, L., De Lara, P.G., Trevisan, A.B., dos Santos, V., Bleninger, T., "Physical Oceanographic measurements to support the outfall system design in the north of Santa Catarina Island, Brazil", Proc. International Symposium on Outfall Systems, Ottawa, 10-13.05.2016
20. Polli, B.A., Bleninger, T., "Sensitivity analysis of a 1D reservoir heat transport model regarding meteorological measurements", 19th Workshop on Physical Processes in Natural Waters, Bath, UK, 12.-15.07.2016
21. Mannich, M., Fernandes, C.V.S., Bernardo, J.W.Y., Bleninger, T., "Daily variation of CO₂ fluxes in two Brazilian subtropical reservoirs", 19th Workshop on Physical Processes in Natural Waters, Bath, UK, 12.-15.07.2016
22. Hilgert, S., Bernardo, J.W.Y., Bouton, N., Bleninger, T., Fuchs, S., "A hydrodynamic approach to sediment distribution verified by hydroacoustic seabed classification in a complex shaped reservoir", 19th Workshop on Physical Processes in Natural Waters, Bath, UK, 12.-15.07.2016
23. Bernardo, J.W.Y., Bleninger, T., "Non-uniformity of residence time in a Brazilian reservoir", 19th Workshop on Physical Processes in Natural Waters, Bath, UK, 12.-15.07.2016
24. Tomas, G.P., Hopker, R., Frigo, A.L., Bleninger, T., "Velocity Mapping Toolbox for Sontek M9 ADCP data", River Flow 2016, Eight Int. Conf. on Fluvial Hydraulics, 10.-14.07.2016, St. Louis, USA
25. Mannich, M., Resende, J.F., Fernandes, C.V.S., Bernardo, J.W.Y., Bleninger, T., "Mathematical Modeling of GHG balance in a subtropical reservoir in south Brazil", Proc. 36th IAHR World Congress, 28.06.-3.7.2015, The Hague, the Netherlands
26. Frigo, A.L., Bleninger, T., "A review of the navigability modeling for inland waterways", Proc. 36th IAHR World Congress, 28.06.-3.7.2015, The Hague, the Netherlands
27. Patalano, A., Garcia, C.M. Brevis, W., Bleninger, T., Guillen, N., Moreno, L., Rodriguez, A., "Recent Advances in Eulerian and Lagrangian Large-Scale Particle Image Velocimetry", Proc. 36th IAHR World Congress, 28.06.-3.7.2015, The Hague, the Netherlands
28. Bernardo, J.W.Y., Bleninger, T., "Interpretation and applicability of residence times in reservoirs", Proc. 36th IAHR World Congress, 28.06.-3.7.2015, The Hague, the Netherlands
29. Salles, D.B., Horita, C.O., Bleninger, T., Carvalho, J.L.B., "Hydrodynamic characterization of Baía de Todos os Santos - BA using numerical modeling", Proc. 36th IAHR World Congress, 28.06.-3.7.2015, The Hague, the Netherlands
30. Passos, G.J.S., Bleninger, T., "CORMIX model application in time-series for different scenarios of effluent types and discharge configurations", Proc. 36th IAHR World Congress, 28.06.-3.7.2015, The Hague, the Netherlands
31. Kotsuka, L., Bleninger, T., "Evaluation of the concepts of virtual water and water footprint in water resources management: a case study of soybean and soybean oil", Proc. 36th IAHR World Congress, 28.06.-3.7.2015, The Hague, the Netherlands
32. Tomas, G.P., Bernardo, J.W.Y., Ratton, P., Bleninger, T., Godoy, P., "Modelagem Hidrodinâmica para o derrocamento do rio Tocantins - Pedral do Lourenço", Proc. XXI Simpósio Brasileiro de Recursos Hídricos, 22. -27.11.2015, Brasília, Brazil
33. Bernardo, J.W.Y., Fernandes, C.V.S., Mannich, M., Bleninger, T., "Indicador da relevância de aporte de nutrientes em reservatórios causados por eventos de precipitação", Proc. XXI Simpósio Brasileiro de Recursos Hídricos, 22. -27.11.2015, Brasília, Brazil

34. Ishikawa, M.M., Bleninger, T., "Metodologia para classificar e visualizar simulacoes de séries temporais em mapas de concentracao", Proc. XXI Simpósio Brasileiro de Recursos Hídricos, 22. -27.11.2015, Brasilia, Brazil
35. Correia, R., Bleninger, T., Guarneri, H., Tomas, G.P., Moro, R.C., Waydzik, F., Ratton, P., Barsotti, H., Ratton, E., Bittencourt, M.L., Gobbi, M.F., Godoy, P., "Determinacao de niveis de estiagem do rio Paraguai utilizando modelagem hidrodinamica integrada a um sistema de informacao geografica", Proc. XXI Simpósio Brasileiro de Recursos Hídricos, 22. -27.11.2015, Brasilia, Brazil
36. Frigo, A., Tomas, G.P., Golyjeswski, O., Bleninger, T., Correia, R., Ratton, P., Barsotti, H., Guarneri, H., Waydzik, F., Hoepker, R., Ratton, E., Godoy, P., "Análise da condicao de navegabilidade da hidrovia do rio Paraguai", Proc. XXI Simpósio Brasileiro de Recursos Hídricos, 22. -27.11.2015, Brasilia, Brazil
37. Muhlenhoff, A.P., Fernandes, C.V.S., Gibertoni, R.F.C., "Análise da calibracao de modelo hidrodinamico 1D com poucos dados", Proc. XXI Simpósio Brasileiro de Recursos Hídricos, 22. -27.11.2015, Brasilia, Brazil
38. Polli, B.A., Bleninger, T., "Modelagem do transporte de calor no reservatório Vossoroça", Proc. XXI Simpósio Brasileiro de Recursos Hídricos, 22. -27.11.2015, Brasilia, Brazil
39. Tomas, G.P., Bleninger, T., "Avaliacao hidromorfologica do uso de espigoes em hidrovias - estudo de caso: passo do Jacaré", Proc. 9º Seminário de Transporte e Desenvolvimento Hidroviário Interior, 6.-8.10.2015, Manaus, Brazil
40. Correia, R., Bleninger, T., Guarneri, H., Tomas, G.P., Ratton, P., Ratton, E., "Modelagem hidrodinamica para a avaliação da navegabilidade em um trecho da Hidrovia do rio Paraguai", Proc. 9º Seminário de Transporte e Desenvolvimento Hidroviário Interior, 6.-8.10.2015, Manaus, Brazil
41. Guarneri, H., Correia, R., Ratton, P., Nadal, C.A., Mouro, R.C. Bleninger, T., Ratton, E., "Determinação do Modelo Digital de Elevação de rios de grande extensão para uso em projetos de engenharia - Estudo de caso do trecho brasileiro da Hidrovia do Rio Paraguai", Proc. 9º Seminário de Transporte e Desenvolvimento Hidroviário Interior, 6.-8.10.2015, Manaus, Brazil
42. Guarneri, H., Ratton, P., Correia, R., Barsotti, H.G., Tomas, G.P., Bleninger, T., Ratton, E., "Determinação de trechos críticos à navegação em rios de grande extensão - Estudo de caso: trecho brasileiro da Hidrovia do Rio Paraguai", Proc. 9º Seminário de Transporte e Desenvolvimento Hidroviário Interior, 6.-8.10.2015, Manaus, Brazil
43. Horita, C., Bleninger, T., Mattos, E., "Aplicacao de tecnicas oticas simplificadas para a analise de jatos e plumas", Proc. XXVI Congresso Latinoamericano de Hidraulica, Santiago, Chile, 25.-30.08.2014
44. Tomas, G., Bleninger, T., "Hydromorphological evaluation of the use of groins into waterways", Proc. of the 2nd International Conference on the Status and Future of the World's Large Rivers, 21-25 July 2014, Manaus, Amazon, Brazil
45. Mannich, M., Bleninger, T., Fernandes, C.V.S., "Analysis and Correction of floating chamber Measurements of gas fluxes at air-water interface", Proc. 7th Int. Symposium on Environmental Hydraulics 2014, ISEH VII, Singapore, 7.-9.1.2014
46. Pacheco Tomas, G. , Bleninger, T., " Hydromorphological evaluation of the use of groins in waterways", II KIT Alumniclub Brazil Seminar, 22-25 Sept., 2013, Recife, Brazil
47. Mannich, M., Bernardo, J.W.Y, Polli, B.A., Zahn, E., Bleninger, T., Fernandes, C.V.S., " Analise da estratificacao termica no reservatorio Vossoroça através de indices físicos", Proc. XX Simposio Brasileiro de Recursos Hídricos, 17 - 22.09.2013, Bento Goncalves, Brazil
48. Bortolazzo Pinto, R., Bleninger, T., Kan, A., " Caracterizacao Hidrodinamica de reservatorios com base nos numeros de Froude e Lago", Proc. XX Simposio Brasileiro de Recursos Hídricos, 17 - 22.09.2013, Bento Goncalves, Brazil
49. Mannich, M., Bleninger, T., Fernandes, C.V.S, " Camaras Flutuantes para medicao de fluxo de gases na interface agua-ar I: revisao e analise critica", Proc. XX Simposio Brasileiro de Recursos Hídricos, 17 - 22.09.2013, Bento Goncalves, Brazil
50. Mannich, M., Bleninger, T., Fernandes, C.V.S, " Camaras Flutuantes para medicao de fluxo de gases na interface agua-ar II: analise teorica", Proc. XX Simposio Brasileiro de Recursos Hídricos, 17 - 22.09.2013, Bento Goncalves, Brazil
51. Mannich, M., Bleninger, T., Fernandes, C.V.S, "Camaras Flutuantes para medição de fluxo de gases na interface agua-ar III: analise de erros", Proc. XX Simposio Brasileiro de Recursos Hídricos, 17 - 22.09.2013, Bento Goncalves, Brazil
52. Madalozzo Poletto, F., Ono Horita, C., Bleninger, T., "Modelagem hidrodinamica da area costeira sob a influencia do estuario do rio Itajai-Acu, SC", Proc. XX Simposio Brasileiro de Recursos Hídricos, 17 - 22.09.2013, Bento Goncalves, Brazil
53. Dumont B., Bleninger, T., " Desenvolvimento de um programa de posprocessamento e analise de dados de "drifters" e "particles"", EVINCI (Encontro de Iniciação Científica da UFPR) e o EINTI (Encontro de Iniciação Tecnológica da UFPR), 01 a 05 de outubro de 2012, UFPR, Curitiba, Brazil
54. Nascimento, G.B., Bleninger, T., "Desenvolvimento de uma metodologia para medir perfis de gases de efeito estufa em reservatórios de usinas Hidrelétricas", EVINCI (Encontro de Iniciação Científica da UFPR) e o EINTI (Encontro de Iniciação Tecnológica da UFPR), 01 a 05 de outubro de 2012, UFPR, Curitiba, Brazil

55. Santos, R.C., Bleninger, T., " Modelagem hidrodinâmica tridimensional de sistemas sob efeito de estratificação térmica", EVINCI (Encontro de Iniciação Científica da UFPR) e o EINTI (Encontro de Iniciação Tecnológica da UFPR), 01 a 05 de outubro de 2012, UFPR, Curitiba, Brazil
56. Santos, R.C., Bleninger, T., "Modelagem hidrodinamica tridimensional de aguas rasa para lagos e reservatórios", XXV Congreso Latinoamericano de Hidraulica, IAHR, San José, Costa Rica, 9-12.09.2012
57. Polli, B.A., Mannich, M., Bleninger, T., "Desenvolvimento de um modelo unidimensional de evolução térmica de um reservatório subtropical", XXV Congreso Latinoamericano de Hidraulica, IAHR, San José, Costa Rica, 9-12.09.2012
58. Mannich, M., Fernandes, C.V.S., Bleninger, T., Marques, M., Fernandez, R.L., Mine, M.M., "Desenvolvimento de camera de difusao para medicao de fluxo de dióxido de carbono em lagos e reservatorios", XXV Congreso Latinoamericano de Hidraulica, IAHR, San José, Costa Rica, 9-12.09.2012
59. Bernardo, J.W.Y., Fernandes, C.V.S., Bleninger, T., Mannich, M., Sbrissia, R.C., "Aplicabilidade dos metodos de subespacos e do erro de predicao na parametrizacao de um modelo de emissao de gases de efeito estufa em reservatorios", Proc. XIX Simposio Brasileiro de Recursos Hidricos, 27.11.-01.12.2011, Maceio, Brazil
60. Mannich, M., Goncalvez, V.D., Bernardo, J.W.Y., Bleninger, T., Froehner, S., Fernandes, C.V.S., "Avaliacao de parametros limnologicos do reservatorio do Vossoroca e de qualidade da agua de seus afluentes", Proc. XIX Simposio Brasileiro de Recursos Hidricos, 27.11.-01.12.2011, Maceio, Brazil
61. R. Morelissen, T. van der Kaaij, B. van Vossen, T. Bleninger, "Dynamic Coupling of Near-Field and Far-Field Models for simulating outfalls", Proc. IDA World Congress, Perth, Western Australia, September 4-9, 2011
62. Rambaldi, M.C., Bleninger, T., " Desenvolvimento de uma metodologia para medir perfis de gases de efeito estufa em reservatórios de usinas Hidrelétricas", EVINCI (Encontro de Iniciação Científica da UFPR) e o EINTI (Encontro de Iniciação Tecnológica da UFPR), 04 a 06 de outubro de 2011, UFPR, Curitiba, Brazil
63. Dutra P., Bleninger, T., "Usinas de dessalinização", EVINCI (Encontro de Iniciação Científica da UFPR) e o EINTI (Encontro de Iniciação Tecnológica da UFPR), 04 a 06 de outubro de 2011, UFPR, Curitiba, Brazil
64. A. Patalano; M. Corral; A. Rodriguez; M. Garcia; T. Bleninger, „Submarine Outfall Design Methodology for Argentinean Coasts“, Proc. Intl. Symp. on Outfall Systems, Mar del Plata, 15.-19.5.2011, Argentina
65. Bleninger, T.; Jirka, G.H.; Roberts, P.J.W., „Mixing Zone Regulations for Marine Outfall Systems“, Proc. Intl. Symp. on Outfall Systems, Mar del Plata, 15.-19.5.2011, Argentina
66. Robin Morelissen, Bas van Vossen, Theo van der Kaaij, Tobias Bleninger, „Waste water discharge modeling with dynamically coupled near field and far field models“, Proc. Intl. Symp. on Outfall Systems, Mar del Plata, 15.-19.5.2011, Argentina
67. Bleninger, T., "Brine Discharges from Desalination Plants: Mixing Processes, Modelling Techniques and Environmental Impact Regulations", *Proc. 2nd Intl. Conf. on Coastal Zone Engineering and Management, Arabian Coast 2010*, 1-3.11.2010, Sultan Qaboos University Press, Muscat – Sultanate of Oman, ISSN: 2219-3596
68. Bleninger, T., Niepelt A., Jirka G.H., Lattemann S., Purnama A., Al-Barwani H.H., Doneker R.L., "Environmental hydraulics framework of the design of discharges from desalination plants“, *Proc. Intl. Symposium on Environmental Hydraulics*, 23.-25.06.10, Editors: Christodoulou G.C. & Stamou A.I., Athens, Greece, ISBN: 978-0-415-58475-3
69. Stache, N., Bleninger, T., Hofmann, B., Jirka, G.H., Maier, M., Roth, K., "Mixing in drinking water storage tanks: field and laboratory experiments“, *Proc. XXXIII IAHR Congr.*, 10.-14.08.2009, Vancouver, Canada
70. A.I. Stamou, Eis. Douka, I. Nikiforakis, P. Dimitriadis, G.H. Jirka and T. Bleninger, „An integrated modeling procedure for thermal discharges into coastal waters“, *Proceedings of the 2nd International CEMEPE & SECOTOX Conference*, Mykonos, June 21-26, 2009, Editors: A. Kungolos, K. Aravossis, A. Karagiannidis, P. Samaras, ISBN 978-960-6865-09-1
71. Rasheduzzaman, M., Seol, D.-G., Bleninger, T. and Jirka, G.H., "Laboratory experiments on the evolution and dynamics of shallow water vortices", 2nd International Symposium on Shallow Flows, Hong Kong, Dec. 10-12, 2008
72. van Banning, G., Bleninger, T., Avanzini, C., „Evaluation of a shallow outfall in a congested nearshore area: Mersin Project“, *Proc. Intl. Conf. Marine Waste Water Discharges - MWWD 2008*, Cavtat (Croatia), 27.10.-31.10.08
73. Niepelt, A., Bleninger, T., Jirka, G.H., „Desalination brine discharge modelling - Coupling of hydrodynamic models for brine discharge analysis“, *Proc. Intl. Conf. Marine Waste Water Discharges - MWWD 2008*, Cavtat (Croatia), 27.10.-31.10.08
74. Jirka, G.H., Bleninger, T., „Multiport diffuser installations for water quality management in large inland rivers“, *Proc. Intl. Conf. Marine Waste Water Discharges - MWWD 2008*, Cavtat (Croatia), 27.10.-31.10.08
75. Lammardo, M. P., Correa, M. A., Bleninger, T., Lammardo, A. C. R., "Aplicacao dos modelos CORMIX e Visual Plumes no estudo do descarte de agua produzida de petroleo no Brasil", *III Congresso Brasileiro de Oceanografia – CBO'2008, I Congresso Ibero-Americano de Oceanografia – I CIAO*, Fortaleza (CE), Brasilien, 20.-24.05.2008
76. Guillermo Palau, Volker Weitbrecht, Thorsten Stösser, Tobias Bleninger, Bernd Hofmann, Matthias Maier, Karl Roth, "Numerical Simulations to predict the hydrodynamics and the related mixing processes in water storage tanks", Proc. IAHR Congress Venice, July 1-6, 2007

77. Bleninger, T., Jirka, G.H., 2006, "Coupling hydrodynamic models for multiport diffusers: design and control techniques for submarine outfalls", *Proc. 4th International Conf. on Marine Waste Water Disposal and Marine Environment - MWWD 2006*, Antalya, Nov. 6-10, 2006
78. Bleninger, T., Högbom, T., 2006, "Review of diffuser installations in very shallow waters", *Proc. 4th International Conf. on Marine Waste Water Disposal and Marine Environment - MWWD 2006*, Antalya, Nov. 6-10, 2006
79. Bleninger, T., Fenton, J.D., Zentgraf, R., 2006, "One-dimensional unsteady flow modelling for compound channels: case study of a river junction and wide floodplains of the River Rhine", *River Flow 2006*, Sept. 6 - 8, 2006, Lisbon
80. Bleninger T. , Jirka, G.H., Weitbrecht, V., 2006, "Optimal discharge configuration for brine effluents from desalination plants", *Proc. DME - Congress, Deutsche MeerwasserEntsalzung*, 04.-06.04.2006, Berlin
81. Bleninger T. , Marena D., Jirka, G.H., 2006, "Mixing calculation for waste water discharge into Rhein river", *Wasserbaukolloquium 2005: Flow simulation in hydraulic engineering*, Dresdener Wasserbauliche Mitteilungen Heft 32, 9.-11..3.2006, TU Dresden
82. Bleninger T., Perez L.M., Milli H., Jirka G.H., 2005, "Internal hydraulic design of a long diffuser in shallow water: Buenos Aires sewage disposal in Rio de la Plata estuary", *Proc. XXXI IAHR Congr.*, 11.-16.09.2005, Seoul, S. Korea
83. Bleninger T., Jirka G.H., 2004, "Near- and far-field model coupling methodology for wastewater discharges", *Proc. 4th International Symposium on Environmental Hydraulics and 14th Congress of Asia and Pacific Division, IAHR*, Hong Kong, China, 15 – 18/12/2004, Lee J.H.W., Lam K.L., Eds.
84. Bleninger T., 2004, "Wie repräsentativ ist die Probenahme in Fließgewässern?", *Proc. V Workshop Flussgebietsmanagement zum Umsetzungsprozess der Europäischen Wasserrahmenrichtlinie*, DWA, 15 – 16/11/2004, Essen, Germany
85. Jirka G.H., Bleninger T., 2004, "Design of multiport diffuser outfalls for coastal water quality protection", *Proc. XXI Congreso Latinoamericano de Hidráulica*, IAHR, São Pedro, Brazil, 18 – 22/10/2004, A.M. Genovez, Ed.
86. Bleninger T. , Avanzini C. A., Jirka G. H., 2004, "Hydraulic and technical evaluation of single diameter diffusers with flow rate control through calibrated, replaceable port exits", *Proc. Int. Conf. on Marine Waste Water Discharges and Marine Environment*, 27/09/04 – 02/10/04, Catania, Italy
87. Bleninger T., Jirka G.H., 2003, "Internal Diffuser Hydraulics", *Proc. IAHR Congress*, 24/08/03 – 29/08/03, Thessaloniki, Greece
88. Bleninger T., Bazzuro N. & Domenichini P., "AQUA Receiving Information from Underwater Sensors (AQUARIUS)", *ECO-Geowater Euroworkshop*, GI and Water Use Management, 18 – 22/03/2003, Genova, Italy
89. Bleninger T., Jirka G.H., 2002, "Outfalls database and information exchange", *Proc. International Conference Marine Waster Water Discharges*, 16 – 20/09/2002, Istanbul, Turkey
90. Jirka G.H, Bleninger T., 2002, "The new EC Water Framework Directive: Consequences for Mixing Zone Analysis for Sea Outfalls", *Proc. International Conf. Marine Waster Water Discharges*, 16 – 20/09/2002, Istanbul, Turkey
91. Bleninger T., Lipari G., Jirka G.H., 2002, "Design and optimization program for internal diffuser hydraulics", *Proc. International Conference Marine Waster Water Discharges*, 16 – 20/09/2002, Istanbul, Turkey
92. Bleninger T., v. Carmer C., Jirka G.H., Neves M., 2002, "Sedimentation from low concentration particle-laden jets", *Proc. International Conference Marine Waster Water Discharges*, 16 – 20/09/2002, Istanbul, Turkey
93. Neves M., Neves A., Bleninger T., 2002, "Prediction of particle deposition in effluent disposal systems" *Proc. International Conference Marine Waster Water Discharges 2002*, 16 – 20/09/2002, Istanbul, Turkey
94. Bleninger T., Jirka G.H., 2000, "Review of design algorithms for internal diffuser hydraulics", *Proc. International Conference Marine Waster Water Discharges*, 27/11 – 02/12/2000, Genova, Italy

Books and book chapters:

- Bleninger, T., Brenda, M., Bung, D., Hengl, M., Schmid, B., Schneider, E., Sonnenburg, A., Stoschek, O., DWA-M 544-1: Ausbreitungsprobleme von Einleitungen – Prozesse, Methoden und Modelle – Teil 1: Anwendungsgrundlagen, Schätzformeln und eindimensionale Modelle, DWA, ISBN 978-3-88721-280-3
- Bleninger, T., Brenda, M., Bung, D., Hengl, M., Schmid, B., Schneider, E., Sonnenburg, A., Stoschek, O., DWA-M 544-2: Ausbreitungsprobleme von Einleitungen – Prozesse, Methoden und Modelle – Teil 2: Mehrdimensionale Modelle, DWA, ISBN 978-3-88721-281-0
- Bleninger, T., Morelissen, R., 2015, "Tiered Modeling Approach for Desalination Effluent Discharges", Chapter in: *Intakes and Outfalls for Seawater Reverse-Osmosis Desalination Facilities*, Editor: Missimer, Thomas M., Jones, Burton, Maliva, Robert G., Springer, ISBN 978-3-319-13203-7
- Socolofsky, A. S., Bleninger, T., Doneker, R.L., 2012, "Jets and Plumes", Chapter in: *Handbook of Environmental Fluid Dynamics, Volume One: Overview and Fundamentals, Part III Fundamental Flow Phenomena and Turbulence*, Editor: Harindra Joseph Fernando, CRC Press, ISBN 9781439816691
- Bleninger, T., Herlina, H., Weitbrecht, V., Socolofsky, S., 2012, "Mixing and transport processes in environmental fluid systems: Gerhard Jirka's scientific achievements" in "Environmental Fluid Mechanics - Memorial Volume in Honour of Prof. Gerhard H. Jirka" ,W. Rodi and M. Uhlmann, eds., IAHR Monograph, CRC Press/Taylor&Francis Group

- Bleninger, T., Roberts, P., 2012 „Outfall Systems“, Chapter in: IWA Specialist Group Directory Global Trends & Challenges in Water Science, Research and Management A compendium of hot topics and features from IWA Specialist Groups, ISBN: 9781780401065, p. 37-42
- Bleninger, T., 2007, "Coupled 3D hydrodynamic models for submarine outfalls: Environmental hydraulic design and control of multiport diffusers", Universitätsverlag Karlsruhe
- Bleninger T., Jirka, G.H., 2006, "Internal Diffuser Hydraulics", Chapter in: Emissarios Submarinos: Projeto, Avaliacao de Impacto Ambiental e Monitoramento / Submarine Outfalls: Design, Compliance and Environmental Monitoring, Editors: Claudia Lamparelli, Jayme Ortiz, ISBN: 9788586624490, p. 219-238

Project reports:

- Ratton, E., Bleninger, T., Ratton, P., Tomas, G.P., Bernardo, J.W.Y., Franco, E.J., Barsotti, H.G., Nadal, C.A., Moura, R.C., Luz, C.C., "Anteprojecto de derrocamento hidrovía do Tocantins", Final report for DNIT, Federal University of Paraná, Dezember, 2015
- Lang, C., Hofmann, B., Bleninger, T., Brevis, W., Stösser, T., Weitbrecht, V., "Optimierte Bewirtschaftung von Trinkwasserspeichern zur Vermeidung mikrobiologischer Verunreinigungen", Final Report for BMBF project 02WT0920, Institute for Hydromechanics, Karlsruhe Institute of Technology, April, 2012
- Bleninger, T., Lattemann, S., Purnama, A., Al-Barwani, H.H., Doneker, R.L., Jirka, G.H., "BrineDis - Environmental planning, prediction, and management of BRINE DIScharges from seawater desalination plants", Middle East Desalination Research Center (MEDRC) Series of R&D Reports, MEDRC Project: 07-AS-003, 2010
- Opila F., Bleninger T., Ramachandran A., Doneker R.L., "CorHyd User Manual, Internal Diffuser Hydraulics Model", MixZon Inc., 2009
- Bleninger, T., "Hydraulic assessment of the flow through the sensor carrier for a pipe-line inspection tool", Institut für Hydromechanik, Universität Karlsruhe, Institutsbericht Nr. 836, 2007
- Bleninger, T., Fenton, J., Jirka, G.H., „Verfahrensbeschreibung des 1-D hydronumerischen Modellsystems CasCade+, Institut für Hydromechanik, Universität Karlsruhe, Institutsbericht Nr. 823, 2007
- Bleninger, T., „Aktualisierung des CasCade Modells für die Donaustrecke Straubing-Vilshofen mit Hilfe des Pre-Processors IGEL“, Institut für Hydromechanik, Universität Karlsruhe, Institutsbericht Nr. 834, 2007
- Bleninger, T., 2006, „3-D modeling of Cartagena outfall“, project report for the World Bank
- Bergmann, C., Bleninger, T., Weitbrecht, V., 2006, „Aufenthaltszeiten in Trinkwasserspeichern: numerische Berechnungen und Feldmessungen“, Institut für Hydromechanik, Universität Karlsruhe, Institutsbericht Nr. 823
- Bleninger T., 2005, „Durchmischungsprognose / Modellierung der geplanten Einleitung von Grubenwasser des Bergwerkes Auguste Victoria / Blumenthal in den Fluss Lippe“, Institut für Hydromechanik, Universität Karlsruhe, Institutsbericht Nr. 817
- Bergmann C., Bleninger T., Weitbrecht V., 2005, „Machbarkeitsstudie Simulation Trinkwasserbehälter mit CFX“, Institut für Hydromechanik, Universität Karlsruhe, Institutsbericht Nr. 815
- Bleninger T., Lang C., Weitbrecht V., 2004, „Generalentwässerungsplan Stadt Mainz Neubau Auslass Gassnerallee, Hydraulische Berechnungen m Rahmen der Optimierung der Abflussverhältnisse im Auslassbauwerk Gassnerallee“, Institut für Hydromechanik, Universität Karlsruhe, Institutsbericht Nr. 810
- Bleninger T., 2004, “Gewässerverschmutzung an der Küste Sao Paulos: Internationale Zusammenarbeit zwischen Karlsruhe und Sao Paulo zur Verbesserung der Wasserqualität durch integratives Abwassermanagement - Reducing water pollution on the Sao Paulo Coast: Development of methodologies for planning and design of multiport diffusers for treated wastewater discharges”, Institut für Hydromechanik, Universität Karlsruhe, Report Nr. 807
- Bleninger T. Richter A., 2001, „Erstellung hydronumerischer Modelle des Projektes Mittelrhein-ARGO Mainz-Andernach (Rhein-km 493 bis 614)“, Institut für Hydromechanik, Universität Karlsruhe, Report No. 787
- Bleninger T., Graf v. Carmer Carl F., 2000, "Sedimentation in Particle-Laden Jets", Institut für Hydromechanik, Universität Karlsruhe, Report No. 768 (Diploma thesis Bleninger T.)
- Bleninger T., 1997, "Planung und Bau eines Abwassersammlers im Armenviertel São Domingos in Curitiba, Brasilien", Institut für Siedlungswasserwirtschaft, Universität Karlsruhe, SANEPAR, Curitiba (Special subject thesis Bleninger T.)

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