

References, Clemens Dorfmann

Industrial Projects and Research Projects

carried out as University Assistant at the TU Graz (2007 - 2016)

Numerische Berechnungen und Monitoring Feldversuch, Grundablass Drossensperre, 2007
Project work. 1D hydraulic modelling, Hec-Ras

Numerische Berechnungen, Murverlegung Unzmarkt, 2008
Project work. 1D hydraulic and sediment transport modelling, Hec-Ras

Numerische Berechnungen, KW Schönau an der Enns, 2010
Project co-work. 3D hydraulic and sediment transport modelling, SSIIM

Numerische Berechnungen, KW Kendlbruck an der Mur, 2011
Project co-work. 2D hydraulic and sediment transport modelling, Telemac-2D

Numerische Berechnung, Hochwasserschutz Villach, 2011
Project work. 2D hydraulic modelling, Telemac-2D

Entsanderanlage Högmoos, Numerische Berechnung, 2011
Project co-work. 2D hydraulic modelling, Telemac-2D

Numerische Berechnungen, KW Leoben, 2012
Project co-work. 2D hydraulic and sediment transport modelling, Telemac-2D

Numerische Berechnungen, KW Niklasdorf an der Mur, 2012
Project co-work. 2D hydraulic modelling, Telemac-2D

Numerische Berechnungen, KW Ferschnitz and der Ybbs, 2012
Project work. 3D hydraulic and sediment transport modelling, Telemac-3D

Numerische Berechnungen, KW Fischening, 2013
Project co-work. 3D hydraulic and sediment transport modelling, Telemac-3D

Numerische Berechnungen, Hochwasserschutz Schöckelbach, 2013
Project work. 2D hydraulic modelling, Telemac-2D

Ökologische Ersatz- und Ausgleichsflächen Brenndorfer Bucht-West, 2013
Project work. 2D hydraulic modelling, Telemac-2D

Numerische Berechnungen im Stauraum des Kraftwerks Edling an der Drau, 2014
Project work. 2D and 3D hydraulic modelling, Telemac-2D and Telemac-3D

Ökologische Ersatz- und Ausgleichsflächen Brenndorfer Bucht-Ost, 2014
Project work. 2D hydraulic modelling, Telemac-2D

ADCP Messungen im Speicher Wasserfallboden, 2014
Project work. Measurements of flow fields and suspended load concentrations

ADCPtool: Entwicklung der Open Source ADCP postprocessing Software, 2014
Project work and supervision

Bed Load Analyzer: Entwicklung der Software zur Berechnung von hydraulischen und sedimentologischen Parametern in gegliederten Querschnitten, 2012-2015
Project work and supervision

Grundsatzstudie Stauraum KW Edling, 2015
Project work. Analysis of the sedimentation evolution in the reservoir

Plabutschunnel, Ausgießversuch, Monitoring Ost- und Weströhre, 2015
Project work. Field measurements

Numerische Berechnungen, Selkacher Bucht, KW Feistritz-Ludmannsdorf an der Drau, 2016
Project co-work. 3D hydraulic and sediment transport modelling, Telemac-3D

Plabutschunnel, Ausgießversuch, Monitoring Ost- und Weströhre, 2016
Project work. Field measurements

Plabutschunnel, Siphon Monitoring Oströhre, 2016
Project work. Field measurements

Lainbergtunnel, Ausgießversuch, Monitoring, 2016
Project work. Field measurements

European Space Agency (ESA): Enhanced Flood Forecasting System for Critical Infrastructure Protection in Medium Size Alpine Catchments (EFFORS), 2013-2017

Physical model studies

Vollmodell KW Feistritz-Ludmannsdorf an der Drau, 2010
Project work, Optimization of the sediment management in the reservoir

Vollmodell KW Schönau an der Enns, 2010
Project co-work. Optimization of the sediment management in the reservoir

Schnittmodell KW Ferlach an der Drau, 2010
Project work. Investigation of the weir capacity and the stilling basin performance

Schnittmodell KW Annabücke an der Drau, 2010
Project work. Investigation of the weir capacity and the stilling basin performance

Schnittmodell KW Feistritz-Ludmannsdorf an der Drau, 2011
Project work. Investigation of the weir capacity and the stilling basin performance

Vollmodell Siphon, Lainbergtunnel, 2016
Project work. Investigation and optimization of discharge capacity of the siphon

Vollmodell Denil-Fischpass, 2016
Project work. Investigation and measurements of the velocity distribution and turbulence

Organizer of Workshops and Conferences

- Hybrid Hydraulic Modelling – Application, Methods, Challenge. In cooperation with University of Ljubljana, Graz, 06.05.2009
- 3D numerical modelling with Fluent, Flow-3D and SSIIM – Theory, Applications and Practice. Benchmark workshop in cooperation with University of Innsbruck, Graz, 20.-21.11.2009

- openTELEMAC-MASCARET workshop. For Austrian civil engineering companies, Graz, 13.05. 2013
- Application of the numerical modelling open source suite openTELEMAC-MASCARET. Workshop, University of Innsbruck, Innsbruck, 21.-22.11.2013
- Hydraulische Modellierung von Fließgewässern mit Open Source Software. With Uwe Merkel, Graz, 09.07.2014
- 24th TELEMAC-MASCARET User Conference at the TU Graz, Graz, 17.-20.10.2017

Board Member

- ÖWAV (Austrian Water and Waste Management Association): Working group: "Surge and sink waves – ecological and energy related challenges", 2007-2008
- Federal Ministry of Agriculture, Forestry, Environment and Water Management: Working group: "Development of the guideline for the estimation of the dam-break outflow hydrographs and the related flood analysis", since 2014
- Scientific Committee, openTELEMAC-MASCARET consortium, since 2015

Reviewer

- Journal of Hydraulic Research
- Water - Open Access Journal
- Interpraevent (International Research Society)