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Name	Alessandra Crosato
Year of birth	1960
Nationality	Dutch, Italian
Present position	Senior Lecturer in Hydraulic Engineering and River Basin Development
Years with firm	Since 2006

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## EDUCATION

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1986	- MSc in Hydraulic Engineering, University of Padua, Italy, Faculty of Civil Engineering, Department of Hydraulics.
1986-1987	- Postgraduate Course "Editing Data Processing", SIBI, Padua, Italy.
1990	- Postgraduate Course "Instability of River and Coastal Forms", International Summer School, Istituto La Colombella, Perugia, Italy.
2008	- PhD "Analysis and modelling of river meandering" Delft University of Technology, Department of Hydraulic Engineering.

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## EMPLOYMENT RECORD

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Oct. 2006 - present	- Senior Lecturer in River Morphodynamics, Department of Water Engineering, UNESCO-IHE Delft, The Netherlands (0.8 fte).
2005 - 2009	- Researcher, Delft University of Technology, Delft, the Netherlands (0.4 fte).
1996-2006	- WL   Delft Hydraulics, Senior Consultant/Researcher.
1994-1996	- ISMES S.p.A, Seriate, Bergamo, Italy, expert in river morphology.
1994	- CEMAGREF, Groupement de Grenoble, Division Protection contre les Erosions, France, Researcher.
1993-1994	- University of Padua, Italy, Researcher, seconded to WL   Delft Hydraulics and Advisor for private contractors.
1991-1993	- Maternity leave.
1989-1991	- WL   Delft Hydraulics, Project engineer.
1988-1990	- Delft University of Technology, the Netherlands, Researcher, seconded to WL   Delft Hydraulics.
1987-1988	- University of Padua, Italy, Researcher, seconded to WL   Delft Hydraulics.
1986-1987	- SIBI, Sarmeola di Rubano, Padua, Italy, Software Expert.
1985	- Studio Architect P. Gozzi, Verona, Italy, Project assistant.

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## KEY QUALIFICATIONS

Dr. Crosato obtained her master degree in Hydraulic Engineering at the University of Padua in 1986 and her doctoral degree at Delft University of Technology in 2008. Dr. Crosato gained a wide experience from consultancy projects dealing with the morphological changes of alluvial systems. Her expertise covers the entire river system, from the source to the sea, including the coast adjacent to the river mouth and the submarine canyon. In the Netherlands, Dr. Crosato worked as advisor in projects regarding the Dutch tidal basins, the Nieuwe Waterweg, the Waal and Meuse Rivers. In Italy, she dealt with the optimization of reservoir operation and flood hazards. She was project leader for the morphological modelling of the Venice Lagoon and contributed to several studies related to the works in defence of Venice. Dr. Crosato also participated in executive projects on bridge design, pipeline crossing (Nile and Congo River estuaries) and tailings disposal. As a researcher, Dr. Crosato developed numerical models simulating river morphological evolution and aquatic habitats. Her research experience includes laboratory experiments on sediment transport and morphology of alluvial systems under current and waves. Her research has led to the development of a state-of-the art computer model for the prediction of river planimetric changes. At UNESCO-IHE, she teaches graduate courses in river morphodynamics, river engineering and river rehabilitation. She also supervises MSc and PhD students. Dr. Crosato is scientific advisor for the Nile Basin Capacity Building Network and of EU-IMPACT and SMART projects. She is a member of the editorial board of the Water Management and Modern Applied Science journals and Nile Water Science & Engineering Magazine.

**MAIN DISCIPLINE / SPECIALISATION**

Morphodynamics of Rivers and Estuaries, River Training, River Rehabilitation, River Meandering, Sediment Transport, Submerged vegetation, Biogeomorphology

**EXPERIENCE RECORD IN CONSULTANCY, RESEARCH AND EDUCATION****Professional and Research Experience in the Netherlands**

2011-2016	Harvard-LASPAU funded research: Accretion processes in river meanders. Role as supervisor.
2010-2013	Power2Flow, funded by DUPC (UNESCO-IHE). Research entitled: Main Flow Morphology and vegetation in the Middle Zambesi. Role as supervisor.
2010-2012	IRWM-NET EU-funded project IMPACT, dealing with anthropogenic impact on river habitats. Role as advisor on morphodynamic modelling.
2010-2014	Effects of erosion control practices in the upper Blue Nile Basin on downstream sedimentation rates. PhD research, role as supervisor.
2009-present	In search of sustainable catchments and basin-wide solidarities in the Blue Nile River Basin, funded by the Foundation for the Advancement of Tropical Research (WOTRO) of the Netherlands Organization for Scientific Research (NWO), UNESCO-IHE and Addis Ababa University. Role as expert in river morphodynamics.
2009	UNESCO-IHE laboratory experiment carried out in collaboration with TU Delft and Deltares for the study of steady bar formation in straight alluvial channels in the absence of a permanent disturbance of the flow.
2009	Congo River estuary (Angola). Assessment of natural and made-made morphological risks in the Soyo area of the Congo River mouth. Participation in project as specialist for Deltares (Netherlands).
2009-present	Nile River (Sudan). Erosion and sedimentation problems in the Nile River basin at different spatial scales. NBCBN Project. Participation as Scientific Advisor.
2009	Waal River, a branch of the River Rhine (Netherlands). Study of the long-term evolution of floodplain excavation (Ewijkse Plaat) near Nijmegen using the Delft3D code. Participation as supervisor.
2008	Rhine River (the Netherlands). Optimization of sediment nourishment to reduce the current river bed degradation trend in the Bovenrijn reach of the Rhine River using the Delft3D code. Role as supervisor.
2008	Lake Awassa (Ethiopia). Assessment of the causes of water level rise. Role as supervisor.
2008	Nile River (Sudan). Study of morphological processes between Roseires and Sinnar. Participation as supervisor.
2008	Waal River, a branch of the River Rhine (Netherlands), study of floodplain sedimentation rates in presence of vegetation and reconstruction of 18 <sup>th</sup> century situation. Participation as supervisor.
2008	Meuse River (the Netherlands), prediction of the long-term effects of floodplain lowering and vegetation on water levels and sedimentation using the Delft3D code. Participation as supervisor.
2007	Allier River (France). Study of the effects of floodplain vegetation on river planform style using the Delft3D code. Participation as supervisor.
2006-present	Nile Basin Capacity Building Project (NBCBN), Cluster Morphology. Participation as scientific advisor.
2006	Congo River submarine canyon (Angola). Contribution, as expert in erosive phenomena, for the definition of the bank retreat rates of the main Congo River submarine canyon and of the tributary canyons near the shore of Angola (LNG).
2006	Coast of Angola. Contribution as expert in morphodynamics and sediment transport



- for the study on how to minimize the number of dredging operations for the channel leading to the Oil Plant of Soyo, which will lie inside the Cao Bay (LNG).
- 2006 Coast of Angola. Contribution as expert in morphodynamics and sediment transport for the study of feasibility of a pipeline land fall near Ponta da Moita Seca, on the coast south of the Congo River mouth (LNG).
- 2005-2008 Low-land rivers: analysis of meandering river processes. Research study on flow in river bends, bank erosion, river migration, free bar formation, and definition of the predictive ranges of the meander model MIANDRAS (as a part of a PhD project, funded by the Water Research Centre of Technical University of Delft).
- 2005-2006 Flood risk assessment. Contribution, as a researcher, to the EU-project FLOODSITE: assessment of flood risk along the Scheldt River and its estuary (research funds: European Commission).
- 2005 Nile River, delta and submarine canyon, Egypt. Contribution, as the expert in morphodynamics, to the hazard assessment study aiming at optimizing the placing of a pipeline on the Nile delta continental slope. Assessment of the possibility of occurrence of turbidity currents inside the submerged canyon off the Rosetta mouth of the Nile River (client: BP).
- 2005 Dutch Wadden Sea. Contribution, as expert in morphodynamics, to the assessment of the cause of sedimentation in the navigation channel to the island of Ameland, the Kikkertgat, and navigation channel optimization (client: Wagenborg Passegerdiensten).
- 2004 Congo River submarine canyon (Congo and Angola). Contribution, as expert in morphodynamics, to the study of turbidity current formation inside the Congo submarine canyon, with the aim of optimizing the location of a pipeline crossing (client: INTEC Engineering, Delft).
- 2003 Sea level rise impact study, world-wide. Contribution, as a researcher, to the EU-project DINAS COAST: study of the impact of sea level rise on storm surge levels (research funds: European Commission).
- 2002-2003 Sediment transport in rivers. Contribution, as a researcher, to the project ENFRAIM. Definition of the "sediment issue" in environmental river flow requirements (research funds: Delft Cluster, The Netherlands).
- 2002 Biogeomorphology of tidal waters. Quantification of biogeomorphological variables for the Dutch tidal systems (research funds: Delft Cluster and Doelsubsidie 2002). Participation as a researcher.
- 2002 Grevelingenmeer (the Netherlands). Project leader for the contribution of WL Delft Hydraulics to the project "LT-visie Blauwe Delta". Prediction of bank erosion and morphological developments following the re-installing of the estuarine dynamics (tide and river discharge) in the Grevelingenmeer (client: DWW, Delft).
- 2002 Nieuwe Waterweg (the Netherlands). Contribution, as a senior morphologist, to the definition of the hydro-morphologic impact of groyne construction and prolongation, focusing on harbour sedimentation, in the Nieuwe Waterweg (project: Kribben ZH, client: DWW).
- 2001-2002 Biogeomorphology of tidal waters. Definition of the effects of benthic fauna and macrophytes on sediment trapping and soil erodibility in the Dutch tidal water systems and implementation in the computer model Delft3D (research funds: Doelsubsidie 2001). Participation as a researcher.
- 2001 Developer and lecturer of the course Biogeomorphology of Rivers and Tidal Waters at WL Delft-Hydraulics.
- 2000-2001 Estuarine morphology. Contribution, as a senior morphologist, to the project RUIMTECOL. Assessment of measuring tools for a "morphological quality" of estuaries, in general, and of the Scheldt estuary in particular (client: RIKZ, The Netherlands).
- 2000-2001 Biogeomorphology of tidal waters. Study of biogeomorphological processes in the Rhine-Meuse-Scheldt delta and in the Dutch Wadden Sea (research funds: Delft Cluster project, theme 3: Coast and River).
- 2000 Biogeomorphology of tidal waters. Analysis of biogeomorphological interactions in



- 1998-1999 the Western Scheldt (research funds: Doelsubsidie 2000).  
Tar sands, Alberta (Canada). Study of methods for the disposal of tailings after oil extraction from tar sands. Contribution to the project as the expert morphologist (client: BHP-Shell, Canada).
- 1998 Black Sea. Assessment of occurrence of turbidity currents down the continental slope of the Black Sea (Turkish and Russian sides) caused by extreme river solid discharges. Geohazard study Black Sea Pipeline Crossing, contribution as the expert morphologist (client: PeterGaz B.V.).
- 1997-1999 Biogeomorphology of tidal waters. Contribution, as a researcher, to the EU project INTRMUD. Study of the interrelations between morphodynamics and biological components on estuarine intertidal flats for the definition of an ecotope classification. Study-site: the Western Scheldt (research funds: European Commission).
- 1997 Croach River Estuary (United Kingdom). Study of the dispersion of mud-flow generated by water injection dredging in estuaries and along the sea coast. Contribution as a morphologist.
- 1997 River habitats. Developer of the model AMERIHA for the study of the aquatic habitat in low-land rivers. The model is based on the 1-D software package SOBEK-RE, which simulates also the mud-covering of the substrate. Habitat quality variations through a year are estimated by means of suitability indexes, which account for the biological calendar of the species considered (research funds: WL Delft Hydraulics).
- 1996 Meuse River (the Netherlands). Estimation of water-level changes during floods, as a consequence of non-uniform main channel widening, by means of the 1-D model SOBEK-RE (client: RIZA, Arnhem).
- 1993 Laboratory study on sediment transport under waves. Experimental research in the Large Oscillating Tunnel (WL Delft Hydraulics, location de Voorst) for the study of sediment transport under currents and waves (research funds: Large Installations Plan programme, European Commission).
- 1990 Dhaleswari River (Bangladesh). Predictions of the river planimetric changes using remote sensing methods and the computer program MIANDRAS (research funds: IHE, Delft University of Technology and WL Delft Hydraulics).
- 1989 Tigris River (Iraq). Study of the planimetric evolution the river, using the computer program MIANDRAS, with the aim of establishing whether the planned location of the intake for a hydroelectric plant is compatible with the river-course changes. Contribution as a junior morphologist (client: Al-Shemal Thermal Power Station Project Committee, Ministry of Industry and Military Industrialisation of IRAQ).
- 1988 Laboratory study on the formation of forced bars in rivers. Experimental research in the Pilot Flume (WL Delft Hydraulics, location de Voorst) for the study of forced alternate bar development. The results were used for the testing of the model MIANDRAS (research funds: WL Delft Hydraulics).
- 1987-1990 Model MIANDRAS. Developer of the model MIANDRAS for the simulation of bed deformation and planimetric changes of meandering rivers. The mathematical model is made of two parts: computation of velocity field and bed topography and computation of bank erosion (research funds: Delft University of Technology and WL Delft Hydraulics).

#### Professional and Research Experience in Italy and France

- 2005-2006 Venice Lagoon. Contribution to the modelling of suspended sediment concentrations in the lagoon of Venice for the project: Development of an ecological model of the Venice lagoon (client: Technital, Italy). Participation as the expert in fine sediment transport.  
ITALY
- 2003-2006 Venice Lagoon. Leader of the project: Development of a morphological model of the Venice lagoon. Modelling of the natural morphological changes of the lagoon of Venice with the software package Delft3D, including tide, wind waves, cohesive and non-cohesive sediment processes, sea grass, salt marshes, bottom fishing. Study of the effectiveness of several interventions to prevent further salt marsh erosion and  
ITALY



	flattening of the lagoon (client: Technital, Italy).
2002 ITALY	Venice Lagoon. Contribution to the study of the local scour following the construction of new breakwaters just outside the inlets of the lagoon and to the study of the effects of the same breakwaters on the water circulation inside the lagoon (client: Technital, Italy). Participation as an expert in tidal-basin morphodynamics.
2002-2004 ITALY	Rivers Secchia and Trebbia. Contribution to the assessment of flood wave propagation and flood hazard in the catchments of the rivers Secchia and Trebbia (client: Autorità di Bacino del fiume Po, Italy). Participation as expert in river morphodynamics.
2001-2004 ITALY	River Adige. Project leader for the contribution of WL Delft Hydraulics to the assessment of flood hazards in the river Adige catchment (client: Autorità di Bacino dell'Adige, Italy).
2001-2004 ITALY	Rivers of Regione Abruzzo. Project leader for the contribution of WL Delft Hydraulics to the assessment of flood hazards in the Abruzzo region (client: Regione Abruzzo, Italy).
1994-1996 ITALY	Mountain rivers. Developer of a fully-integrated model for large-scale predictions of river macro-habitat quality in the Alpine Region: HAFIMO. A 1-D, time-dependent, morphological model is coupled with the suitability indexes (IFIM approach) and biological calendar of several fish and macro benthic species. The model allows for the simulation of short-term stress events (research funds: ENEL, Italy).
1995-1996 ITALY	Mountain rivers. Research work on the analysis of 1-D modelling of mountain and piedmont rivers. Schematisation of cross-sections, interpretation of results. Research funded by the EU project: Flooding Risks In Mountain Areas (FRIMAR).
1994 FRANCE	Mountain streams. Research work on the assessment of the amount of annual sediment transport in a pilot mountain stream using the software package ARCINFO (research funds: CEMAGREF, France).
1994 ITALY	Po River, intake of Boretto. Optimisation of river width and planimetry to prevent the development of large bar deposits at the intake of the irrigation canal of Boretto. Stabilization of free migrating bars and forcing at certain fixed locations, away from the intake. Use of the computer model MORPHY (client: Consorzio della Bonifica Parmigiana Moglia Secchia). Participation as a consultant, expert in river morphology.
1993 FRANCE	Modelling of low-land river morphology. Developer of the quasi 2-D morphological model MORPHY, for the study of river-bed topography with special regard to the formation of steady alternate bars (private consultancy).
1990-1991 ITALY	Rivers Bradano and Basento (Basilicata Region). Contribution, as a morphologist, to the Environmental Impact Assessment of several types of human interventions in the river catchments, with respect to the morphology of the rivers and of the coastal region neighbouring the river mouths (client: Ministero dell'Ambiente, Italy).
1985 ITALY	Bridge design. Hydrological study and determination of high water levels of a mountain stream near Grezzana (Verona). Constructive design of two bridges crossing the same water course at different locations (private consultant, client: Arch. Paolo Gozzi, Verona).

### Teaching assignments

2006 - present	At UNESCO-IHE: responsible for the courses "River Morphodynamics" and "River Training and Rehabilitation", contributor to the common course "The Water System" and to the short course "Environmental Water Allocation".
2005 - present	At Delft University of Technology: contributor to the course "Biogeomorphology".
1988 - present	Supervision of MSc and PhD students.

### LANGUAGE PROFICIENCY



<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
Italian	Mother tongue	Mother tongue	Mother tongue
English	Excellent	Excellent	Excellent
French	Excellent	Good	Moderate
Dutch	Excellent	Good	Moderate

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## PUBLICATIONS

### BOOKS

- CROSATO A., 2008. Analysis and modelling of river meandering. IOS Press, Amsterdam, ISBN 978-1-58603-915-8, 251 p. **This book is currently being translated in Chinese by the Yellow River Conservancy Commission (YRCC), Ministry of Water Resources, China.**

### ARTICLES IN BOOKS

- WRIGHT N. & CROSATO A., 2011. The hydrodynamics and morphodynamics of rivers. In: Peter Wilderer (ed.), *Treatise on Water Science*, vol. 2, pp. 135–156 Oxford: Academic Press.
- STRUIKSMA N. & CROSATO A., 1989. Analysis of a 2 D bed topography model for Rivers. In: *River Meandering*, A.G.U., Water Resources Monograph, Vol. 12, Ikeda S. & Parker G. Editors, pp. 153-180. ISBN 0-87590-316-9.
- CROSATO A., 1988. Simulazione matematica dell'evoluzione dei fiumi a meandri. In: *Trasporto solido ed evoluzione morfologica nei corsi d'acqua*, printed by University of Trento, Trento (Italy), pp.47-70 (in Italian).

### INTERNATIONAL JOURNAL PAPERS

- CROSATO A., MOSSELMAN E., DESTA F.B., UIJTTEWAAL W.S.J., 2011. Experimental and numerical evidence for intrinsic nonmigrating bars in alluvial channels. *Water Resources Research*, AGU, 47, article No W03511, doi 10.1029/2010WR009714.
- ZERFU T.T., BEEVERS L. & A. CROSATO, submitted 2011. Applicability of Monte Carlo techniques to the assessment of the erodible river corridor width. Submitted (2011) to *Water Resources Management*.
- CROSATO A. & SAMIR SALEH M., 2011. Numerical study on the effects of floodplain vegetation on river planform style. *Earth Surface Processes and Landforms*, Copyright © 2010 John Wiley & Sons, Ltd, 36, 711-720, DOI: 10.1002/esp.2088.
- MONTES A.A., CROSATO A. & MIDDELKOOP H., 2010. Reconstructing the early 19<sup>th</sup> century Waal River by means of a 2D physics-based numerical model. *Journal of Hydrological Processes*, Wiley InterScience, doi: 10.1002/hyp.7804.
- VILLADA ARROYAVE J.A. & CROSATO A., 2010. Effects of river floodplain lowering and vegetation cover. Proceedings of the Institution of Civil Engineers Water Management, 163(9), 457-467, doi: 10.1680/wama2010.163.11.
- CROSATO A., 2009. Physical explanations of variations in river meander migration rates from model comparison. *Earth Surface Processes and Landforms*, Wiley InterScience, Vol. 34(15), 2078-2086, doi: 10.1002/esp.1898.
- CROSATO, A. & MOSSELMAN E., 2009. Simple physics-based predictor for the number of river bars and the transition between meandering and braiding, *Water Resour. Research*, AGU, Vol. 45, W03424, doi: 10.1029/2008WR007242.
- CROSATO A., 2007. Effects of smoothing and regridding in numerical meander migration models. *Water Resources Research*, AGU, Vol. 43, No. 1, W01401, doi: 10.1029/2006WR005087.
- TOFFOLON M. & CROSATO A., 2007. Developing macroscale indicators for estuarine morphology: the case of the Scheldt Estuary. *Journal of Coastal Research*, Vol. 23, No. 1, pp. 195-212.
- MOSSELMAN, E. & CROSATO A., 1991. Universal bank erosion coefficient for meandering rivers. *Journal of Hydraulic Engineering*, ASCE, Vol.117, No.7, pp. 942-943.



CROSATO A., 1989. Meander migration prediction. *Excerpta*, G.N.I., Vol. 4, pp. 169-198, Libreria Progetto, Padua, Italy.

### NATIONAL JOURNAL PAPERS

- FACCHINI E., CROSATO A., KATER E., 2009. La modellazione numerica nei progetti di riqualificazione fluviale: il caso Ewijkse Plaat, Paesi Bassi. In: *Riqualificazione Fluviale*, 2/2009, 67-73 (in Italian, peer-reviewed).
- CROSATO A. & MOSSELMAN E., 1996. "La lotta contro l'acqua in Olanda". *Notiziario, Ordine degli Ingegneri di Verona e Provincia*, Vol. 54, No. 3/4, pp. 17-24 (in Italian, peer reviewed).

### RESEARCH REPORTS

- MARCHAND M., CROSATO A. & KLIJN F., 2006. Flood risk analysis for the River Scheldt estuary. Floodsite Consortium: [S.I.] IV, 21 pp.
- VIS M., MEIJER K.S., PENNING W.E., GROOT S., GILS VAN JA.G., WEGEN VAN DER M., CROSATO A., 2003. ENFRAIM Thematic studies on water quality (including salinity and suspended solids) and human well-being. Delft Cluster Research Project on 6/Integrated Water Management, Report 06.02.04, June 2003.
- CROSATO A., TANCZOS I., DE VRIES M. & WANG Z.B., 2002. Quantification of Biogeomorphological variables for Dutch tidal systems. Delft Cluster Research Project, Theme 3: Coast and River, Report DC June 2002 also WL | Delft Hydraulics Report Z2837/Z2827.
- BROUWER DE J., CROSATO A., HERMAN P.M.J., TALMON A.M., VERBEEK H., DE VRIES M.B., WEGEN VAN DER M. & WINTERWERP J.C., 2000. Eco-morphodynamic processes in the Rhine-Meuse Scheldt delta. Delft Cluster Research Project Theme 3: Coast and River, Report DC March 2001, also WL | Delft Hydraulics Report Z2827.
- CROSATO A. 1999. A tool for intertidal flat classification. WL | Delft Hydraulics Report Z2037.50, EU-funded project INTRMUD (Intertidal Mudflats).
- CROSATO A., 1998. Non-homogeneous mud structure at consolidation. Drainage system behaviour. WL | Delft Hydraulics, Report No. Z316/DM16, research project funded by Bouwdienst Rijkswaterstaat.
- CROSATO A., 1997. Aquatic habitat of meandering rivers. Integrated model: HEP/SOBEK. WL | Delft Hydraulics, Report No. Q1969.
- CROSATO A., 1995. One-dimensional modelling of mountain and piedmont rivers. Basic concepts of downscaling from 3D to 1D - morphological aspects-. EU funded project FRIMAR (Flooding Risks in Mountain Areas).
- KATOPODI I., RIBBERINK J.S., RUOL P. KOELEWIJN R., LODHAL C., LONGO S., CROSATO A. & WALLACE H., 1994. Intra-wave sediment transport in an oscillatory flow superimposed on a mean current. Part III, data report. WL | Delft Hydraulics, Report No. H1684, EU-funded project Mast-G8.
- CROSATO A., 1990. Simulation of meandering river processes. *Communications on Hydraulic and Geotechnical Engineering*, Delft University of Technology, Report No. 90-3, ISSN 0169-6548.

### CONFERENCE PAPERS

- CROSATO A., RAJBHANDARI N., COMITI F. & UIJTTEWAAL W.S.J. (2011). Experimental study on entrainment of large wood in lowland rivers. In *EUROMECH Colloquium 523, Ecohydraulics, linkages between hydraulics, morphodynamics & ecological processes in rivers*, Extended Abstracts, Chomette C. & Steiger. J (eds.), Clermont-Ferrant, France,



- 15-17 June 2011, European Mechanics Society, pp. 59-64.
- CROSATO A., DESTA F.B, CORNELISSE J. & UIJTTEWAAL W.S.J. (submitted 2011). Experimental observations on long-term behavior of migrating alternate bars. RCEM2011, Tsinghua University, Beijing, China, September 6-8 2011.
- CROSATO A., DESTA F.B, LE U, GETANEH A.A. & WIM S.J. UIJTTEWAAL, 2010. Long-duration laboratory experiment of slow development of steady alternate bars. In: *River Flow 2010*, Dittrich A., Koll K., Aberle J. & Geisenhainer P. (eds.), published by Bundesanstalt für Wasserbau (BAW), Karlsruhe, Germany, ISBN 978-3-939230-00-7, pp. 1035-1039.
- ZERFU T.T., BEEVERS L. & A. CROSATO, 2010. Application of Monte Carlo techniques to assess the river corridor width. In: NCR-days 2010 November 4-5 Book of Abstracts, Stouthamer E. (eds.), No. 35.
- CROSATO A. & DESTA F.B, 2009. Intrinsic steady alternate bars in alluvial channels; Part 1: experimental observations and numerical tests. In: Proc. of the 6<sup>th</sup> Symp. on River Coastal and Estuarine Morphodynamics (RCEM 2009), 21-25 Sept. 2009, Santa Fe, Argentina, RCEM 2009, Taylor & Francis Group, Vol. 2, pp. 759-765 (peer-reviewed).
- DURAN R., BEEVERS L., CROSATO A. & WRIGHT N., 2009. Bank retreat study of a meandering river reach case study: River Irwell. Proc. 7<sup>th</sup> Int. Symp. on Ecohydraulics, Paper 404, January 12-16, Concepción, Chile, ISBN 978-981-08-2100-5.
- SAMIR SALEH M. & CROSATO A., 2008. Effects of riparian and floodplain vegetation on river patterns and flow dynamics. In: *Proc. 4<sup>th</sup> ECRR Int. Conference on River Restoration*, Italy, Venice S. Servolo Island, 16-21 June 2008, G. Gumiero, M. Rinaldi & B. Fokkens (Eds.), ECRR, Industrie Grafiche Vicentine S.r.l., pp. 807-814, it can be downloaded from: <http://www.ecrr.org/conf08/proceedings.htm>. **This publication has been selected for translation in Russian by RosNIIVKh (Russian Research Institute for Integrated Water Management and Protection, member of the ECRR Management Board) with the support of ECRR.**
- CROSATO A., 2008. Possibilities of physics-based meander migration predictions. Geophysical Research Abstracts, Vol. 10, EGU2008-A-01120, EGU General Assembly 2008.
- DURAN R., BEEVERS L., CROSATO A. & WRIGHT N., 2008. Bank retreat of a meandering river reach case study: River Irwell. Proc. NCR-days 2008, A.G. van Os & C.D. Erdbrink (eds.), Publ. of the Netherlands Centre for River Studies, NCR Publication 33-2008, Dec. 2008, ISSN 1568-234X, pp. 70-71.
- CROSATO A., 2007. Variations of channel migration rates in two meander models. In: *River Coastal and Estuarine Morphodynamics*, Proceedings 5<sup>th</sup> IAHR Symposium (RCEM 2007), Edited by C. M. Dohmen-Janssen and S.J.M.H. Hulscher, p. 185-192. ISBN13: 978-0-415-45363-9 (peer-reviewed).
- TANCZOS I.C., CROSATO A. & DE VRIES M., 2003. Micro scale modelling and practical issues. In: *Proc. Int. RIPFOR Workshop*, Trento, 20-22 February, 2003, printed by the University of Trento (Italy).
- PEVIANI M.A., SACCARDO I., CROSATO A. & GENTILI G., 1996. Natural/artificial floods connected with river habitat. In: *Ecohydraulics 2000*, Proceedings 2nd International Symposium on Habitat Hydraulics, Québec, Canada, June 1996, Vol. B, pp.175-186.
- KATOPODI I., RIBBERINK J.S., RUOL P., LODAHL C. & CROSATO A., 1994. Sediment transport measurements in combined wave-current flows (The LIP07 Experiment). Overall Workshop of MAST-G8 Coastal Morphodynamics, Gregynog, Wales, Sep. 1994, paper 3.7.
- CROSATO A., 1987. Simulation model of meandering processes of rivers. Extended Abstracts of the International Conference: *Euromech 215-Mechanics of Sediment Transport in Fluvial and Marine Environments*, European Mechanics Society, Sept. 15-19, Santa Margherita Ligure-Genoa, Italy, printed by the University of Genoa, pp. 158-161.



## LECTURE NOTES

CROSATO A., 2007. Morphological response at the reach scale. LN0381, UNESCO-IHE, Delft, the Netherlands.

CROSATO A., 2007. Environmental flows assessment. Geomorphology issue. UNESCO-IHE, Delft, the Netherlands.

CROSATO A., 2009. River morphodynamics. Brief Introduction. LN0421, UNESCO-IHE, Delft, the Netherlands.

## REVIEWER FOR:

Advances in Water Resources (Elsevier)  
Sedimentology (IAS, Wiley-Blackwell)  
Geomorphology (Elsevier)  
Earth Surface Processes and Landforms (Wiley)  
Journal of Hydraulic Engineering (ASCE)  
Water Management (ICE)  
Modern Applied Science (CCSE)  
Journal of Sediment Research (Elsevier)  
Arabian Journal for Science and Engineering (Springer)  
Nile Water Science & Engineering Magazine (NBCBN)

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## PROFESSIONAL AFFILIATIONS

Member of:

Netherlands Centre for River Studies NCR:

- Programme Commission (NCR-PC)
- Morphological Triangle
- Biogeomorphology Platform

Editorial Board of the ICE journal Water Management

Editorial Board of the Modern Applied Science Journal (Canadian Center of Science and Education)

Editorial Board of the Nile Water Science & Engineering Magazine

Steering Committee UNESCO-ISI (International Sediment Initiative)

Scientific Committee of RCEM2011 (River Coastal and Estuarine Morphology conference 2011)

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