

## *CURRICULUM VITÆ*

**Name:** Flávio Augusto Bastos da Cruz Martins

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## **PROFILE**

### ***PROFESSIONAL ACTIVITY:***

Since 2011: Vice-rector of University of Algarve

2007-2009: President of the science council at E.S.T. University of Algarve, Portugal

Since 2001: “Professor Coordenador” at E.S.T. University of Algarve, Portugal

From 1992 to 2001: “Professor Adjunto” at E.S.T. University of Algarve, Portugal

From 1989 to 1992: “Assistente” at E.S.T. University of Algarve, Portugal

Quality Assessment (Global Lecturer Appreciation, from 1 to 6): 2010: 5.41

### ***Degrees:***

Ph.D. DEGREE: (1999) Mechanical Engineering “3D Mathematical modelling of estuarine and coastal flows using a generic vertical coordinate approach” I.S.T. Technical University of Lisbon, Portugal

MASTER DEGREE: (1991) Mechanical Engineering. (Thermodynamics and Fluids)  
I.S.T. Technical University of Lisbon, Portugal

GRADUATE DEGREE: (1988) Mechanical Engineering. (Thermodynamics and Fluids) I.S.T. Technical University of Lisbon, Portugal

### ***Scholarships:***

1988-89 - MSc Scholarship, INIC (National Institute of Science and Research).

1996-1999 – PhD Scholarship, PRODEP (Operational Program for the Development of the Portuguese Education).

## ***PROJECTS***

### RESEARCH

OMEX II (MAS3-CT97-0076). Ocean Margin Exchange

(PRAXIS/3/3.1/CEG/2576/95) “Application of zonal techniques to the numerical modeling of marine hydrodynamics”

(POCTI/CTA/48250/2002) DYNCOSTAL - Physical and Biogeochemical Dynamics of Coastal Countercurrents: A Study Case in Algarve Luff “

(REEQ/484/MAR/2005) Rede piloto de observação e investigação integrada de sistemas costeiros e bacias hidrográficas

(PTDC/CLI/68488/2006) “Estuarine valley evolution during the eustatic sea-level rise assessment of climate change impacts through the confrontation of paleoenvironmental data with two types of models – EVEDUS”

(144627-TEMPUS-2008-EG-JPCR) “Technology Management & Integrated Modeling in Natural Resources: A University-Enterprise Win-Win Partnership”

(SST-234096-FP7-2008-RTD-1 ARGOMARINE) “Automatic Oil-Spill Recognition and Geopositioning integrated in a Marine Monitoring Network – ARGOMARINE”

(PTDC/AAC-CLI/103348/2008) “Whole-system metabolism and CO<sub>2</sub> fluxes in a coastal lagoon dominated by saltmarsh and seagrass meadows”

(PTDC/CTE-GIX/112236/2009) SIHER - Processes of Sedimentary Infilling and Holocene Evolution of the Ria Formosa Lagoon System

### APPLIED

2000, Assessment of the downstream limits of Portuguese estuaries, National Water Authority (INAG).

2002, Technical advisory on the implementation of 91/271/CEE directive (nitrates from agriculture sources)), National Water Authority (INAG).

2003 (45-03-16-FDR-00011) Evaluation of the effect of WWTP discharges on the water quality of Ria Formosa.

2003, Hydrological and water quality modelling of the river basins of Maranhão, Vale do Gaio and Pracana Reservoirs, National Water Authority (INAG).

2004 (45-03-16-FDR-00011) (Cont.) Evaluation of the effect of WWTP discharges on the bivalve quality of Ria Formosa.

2005, Monitoring the receiving waters or urban WWTPs of Algarve (Ria Formosa, Albufeira, Guadiana and Arade Estuaries)), Algarve Water Managers (AdA).

2008, Rehabilitation of the Palmares Lagoon, Rockbuilding S.A.

Cirriculum Vitae – Flávio Martins

2010, Technical Study of the Receiving Waters of Faro and Olhão WWTP, Algarve Water Managers (AdA)

### ***Evaluator / Expert***

Has been a member of the evaluation panel of the following programs:

- Programa Operacional Ciência Inovação (POCI) 2010, Portugal
- Framework programme for research, technological development and innovation 2009 – 2010, research promotion foundation, Cyprus
- 2010 - Environmental Impact Assessment, Hydrodynamic and Sediment transport, Navigability of the Guadiana River.

### ***Journal Reviewer***

Is a regular reviewer of the following Journals:

Estuarine Coastal and Shelf Science.

Computers and. Geosciences.

Journal of Marine systems

Environmental Modelling and Software

Marine Environmental Research

Journal of Sea Research

### ***Extension Activities***

- Equipa UAlg Lectures  
2008 – Escola Secundária Pinheiro e Rosa, Faro  
2010 – Escola Secundária Pinheiro e Rosa, Faro  
Escola Secundária Dr. Jorge Correia, Tavira
- Dia Aberto UAlg  
2007 to present – Lecture “Onde para a pressão ?”

### ***Juri of theses defence***

- 2002 – PhD, IST-UTL, Henrique Coelho (reporter)
- 2005 – MSc, IST-UTL, Luis Fernandes
- 2006 – MSc, IST-UTL, Diogo Anjos (reporter)
- 2007 – MSc, UAlg, Thomas Chevalier
- 2007 – MSc, UAlg, Yustina Kiwango
- 2007 – MSc, UAlg, Rankiri Prabath Jayasinghe

- 2007 – PhD, UAlg, Pedro Morais
- 2008 – PhD, UGR (Spain), Isabel Aranda (reporter)
- 2008 – MSc, IST-UTL, Sérgio Larangeiro (reporter)
- 2009 – PhD, UAveiro, Ana Cardoso (Reporter)
- 2010 - MSc, UAlg, Mukesh Kumar (Chairman)
- 2010 - MSc, UAlg, Champika Gedara (Chairman)
- 2010 – PhD, IST-UTL, Guillaume Riflet (Reporter)
- 2013 – MsC, UAlg, Fábio Branco
- 2013 – PhD, IST-UTL, Isabel Monteiro

### **Orientation of theses**

João Mestre Madeira Lopes, 2004, *Modelação Matemática do Transporte de Sedimentos no Estuário do Guadiana*, MSc in Mechanical Engineering, Universidade do Minho, Portugal.

Alberto Monteiro Brito, 2005, *Impacte das ETARs na Qualidade Microbiológica da Água na Ria Formosa e Consequências para a Produção Conquícola: abordagens experimental e numérica*, MSc in Sanitary Engineering, FCT Universidade Nova de Lisboa, Portugal.

João Janeiro Leitão Lopes, 2006, *Modelling hydrocarbon dispersion in two coastal ecosystems: Kongsfjord (Norway) and Patos Lagoon (Brazil)*, European Joint Master in Water and Coastal Management, Geophysical Institute, University of Bergen, Norway.

Mehmet Cüneyd Demirel, 2007, *Forecasting streamflow by artificial neural networks, auto-regressive models and implementation of maps server for ria Formosa*, European Joint Master in Water and Coastal Management, University of Cadiz, Spain.

Bárbara Mascarenhas Xavier, 2008, *Benthic macrofauna and hydrodynamic modelling assessment. Consequences of a waste water discharge in the Almagem stream, South Portugal*, MSc in Marine and Coastal Studies, FCMA, University of Algarve, Portugal.

Selma Maria Henriques Gabriel, 2011, *Modelação morfodinâmica a longa escala temporal: aplicabilidade de um modelo “baseado em processos”*. MSc in Marine and Coastal Studies, FCMA, University of Algarve, Portugal.

Suruj Rakesh Babwah, 2011, *Towards a hydrodynamic operational model of the Algarve coast and St. Vincent cape*. European Joint Master in Water and Coastal Management, FCT, University of Algarve, Portugal.

Nadiia Basos, 2013, *GIS as a tool to aid pre- and post-processing of hydrodynamic models. Application to the Guadiana Estuary*. Master in Geomatics, University of Algarve

Anabela Neto Venancio, 2013, *Influência de Plumas de Água Doce na Hidrodinâmica do Estuário da Ria de Arousa (NW Espanha), Uma Abordagem de Modelação Matemática*, Mestardo em Geomática, FCT, Universidade do Algarve.

João Janeiro Leitão Lopes, (running), Desenvolvimento de uma ferramenta operacional para previsão de derrames de petróleo na costa do Algarve, Doutoramento em Ciências do Mar, da Terra e do Ambiente/Oceanografia, FCT, Universidade do Algarve.

Antonio Augusto Sepp Neves, (running), Oil spill risk assessment and management for the coast of Algarve, Southern Portugal – an operational modeling approach, Erasmus Mundus PhD in Marine and Coastal Management – MACOMA

### ***Supervision of Researchers:***

2005-2007 João Janeiro, Lic. (AdA, transference project)

2005-2007 Anabela Venâncio, Lic. (AdA, transference project)

2005-2007 Alberto Brito, MSc. (AdA, transference project)

2008-2009 Selma Gabriel, Lic. (FCT-EVEDUS Project)

2008-2009 Patrícia Laginha, MSc. (FCT-EVEDUS Project)

2009-2010 Vasco Vieira, PhD. (FCT-CRIA Project)

2009 Natalie Verelst, MSc. (FP7-ARGOMARINE Project)

2009-2011 Anna Zakarioudakis, PhD (FP7-ARGOMARINE Project)

2009-Present João Janeiro, MSc. (FP7-ARGOMARINE Project)

2012-present Nadiia Basos, MSc. (FCT-CRIA Project)

## **PUBLICATIONS**

### ***Theses***

**Martins, F.**, 1990. *Cogeração com turbina a Gás, Simulação a Carga Parcial*. MsC thesis, Instituto Superior Técnico, Universidade Técnica de Lisboa.

**Martins, F.**, 1999. *Modelação matemática tridimensional de escoamentos costeiros e estuarinos usando uma abordagem de coordenada vertical genérica*. PhD Thesis, Instituto Superior Técnico, Universidade Técnica de Lisboa.

### ***Project Reports***

Neves, R., Coelho, H., Santos, A., Martins, H., Leitão, P., Miranda, R., Martins, F. e Montero, P., 1998. Modeling the circulation off Iberian Peninsula. OMEX II - II First Annual Science Report.

INAG, MARETEC, UAAlg, 2001, Limites de Jusante dos Estuários Portugueses

INAG, MARETEC, UAlg, 2003, Assessoria técnica para aplicação das directivas 91/271/cee – tratamento de águas residuais urbanas e 91/676/cee – nitratos de origem agrícola. Identificação de zonas sensíveis e vulneráveis em estuários.

DRAOT-Alg., MARETEC, UAlg, 2003, Estudo de monitorização das estações de tratamento da Ria Formosa.

DRAOT-Alg., MARETEC, UAlg, 2004, Análise do Impacte das Características Microbiológicas dos Efluentes Urbanos na Actividade Conquícola da Ria Formosa, Acumulação de coliformes em bivalves.

INAG, MARETEC, UAlg, 2005, Pollutants Loads on Pocinho, Pracana, Maranhão and Vale do Gaio Basins, Project Report

AdA, HIDROTEC, MARETEC, 2006, Monitorização da qualidade da água do meio receptor dos efluentes urbanos na zona de atendimento da Águas do Algarve S.A.

### **Articles in Books**

Neves, R., P. Leitão, F. Braunschweig, **F. Martins**, H. Coelho, A. Santos, and R. Miranda. 2000. *The advantage of a generic coordinate approach for ocean modelling*. In: Water Studies, Ed. W.R. Blain & C.A. Brebbia, WITpress, 7:25-34

Miranda, R., F. Braunschweig, P. Leitão, R. Neves, **F. Martins** and A. Santos. 2000. *MOHID 2000 - A coastal integrated object oriented model*. In: Water Studies, Ed. W.R. Blain & C.A. Brebbia, WITpress, 7:393-401

Pina, P., **F. Martins**, P. C. Leitão, F. Braunschweig, and R. Neves. 2004. Development of an integrated system for coastal waters. *European Space Agency, (Special Publication) ESA SP(549): 227-232*

**Martins, F.**, P. Pina, S. Calado, S. Delgado, and R. Neves. 2003. *A coupled hydrodynamic and ecological model to manage water quality in ria formosa coastal lagoon*. In: Advances in Ecological Sciences, Ed. E. Tiezzi, C.A. Brebbia e J.L. Usó, WITpress, 18:93-100

A. Venâncio, **F. Martins**, R. Neves, 2005. *Hydrological modelling of Maranhão and Pracana Basins, a first approach*. In: Water Resources Management III, WIT Transactions on Ecology and the Environment, Ed. M. Cunha and C.A. Brebbia. WITpress, 80:41-48

P. Morais, F. Martins, M. A. Chicharo, J. Lopes, L. Chicharo, 2013. *MOHID as a tool to evaluate the impact of water discharge from dams on the advection of estuarine fish larval stages*. In: Ocean modelling for coastal management – Case studies with MOHID, Ed. M. Mateus and R. Neves, IST Press, 143-160

### **Peer Review International Journals**

**Martins, F.**, P. Leitão, A. Silva, and R. Neves. 2001. 3D modelling in the sado estuary using a new generic vertical discretization approach. *Oceanologica Acta* 24 : S51-S62

Gómez-Gesteira, M., M. Decastro, R. Prego, and **F. Martins**. 2002. Influence of the barrie de la maza dock on the circulation pattern of the ría of A coruna (NW-

Spain) | [influencia del dique de barrie de la maza sobre el patrón de Circulación de la Ría de A coruna]. *Scientia Marina* 66, (4): 337-346.

**Martins, F.**, P. Leitão, and R. Neves. 2002. Simulating vertical water mixing in homogeneous estuaries: The SADO estuary case. *Hydrobiologia* 475/476: 221-227.

Braunschweig, F., **F. Martins**, P. Chambel e R. Neves, 2003. A methodology to estimate renewal time scales in estuaries: the Tagus Estuary case. *Ocean Dynamics* 53(3): 137-145

Lopes, J., R. Neves, J. Dias e **F. Martins**, 2003. Calibração de Um Sistema de Modelação para o Estuário do Guadiana. *Thalassas* (especial issue 4º simposio sobre el margen continental ibérico atlántico) 19(2): 155-156.

Caeiro, S., M. H. Costa, P. Goovaerts, and **F. Martins**. 2005. Benthic biotope index for classifying habitats in the sado estuary: Portugal. *Marine Environmental Research* 60, (5): 570-593.

**Martins, F.**, M.P. Reis, R. Neves, A.P. Cravo, A. Brito e A. Venâncio, 2006. Molluscan Shellfish bacterial contamination in Ria Formosa coastal lagoon: A modelling approach. *Journal of Coastal Research* 39:1551-1555.

Saraiva, S., Pina, P., **Martins, F.**, Santos, M., Braunschweig, F. & Neves, R., 2007. Modelling the influence of nutrient loads on Portuguese estuaries, *Hydrobiologia* 587:5-18.

Janeiro, J., Fernandes, E., Martins, F. & Fernandes, R., 2008. Wind and Freshwater Influence over Hydrocarbon Dispersal on Patos Lagoon, Brazil, *Marine Pollution Bulletin* 56:650–665

**Martins, F.**, Janeiro, J., Gabriel, S. & Neves, R., 2009. Integrated monitoring of South Portugal water bodies: a methodology towards WFD, *Water Science & Technology* 60(8):1979-1988.

Gabriel, S., **Martins, F.**, 2009. First results of a long term morphodynamic process based model. *Journal of Coastal Research*, SI 56: 952-955.

Sampath D., Boski T., Martins F., Sousa C., Pinheiro F., Bezerra F., 2011. Forecasting and hindcasting long-term morphological evolution of the estuaries and lagoons in response to the sea-level rise, *Journal of Coastal Research*, SI 64, 691-695

Sampath, D.M.R., Boski , T., Silva P.L., **Martins F.A.**, 2011. Morphological evolution of the lower Guadiana estuary and its intertidal zone in response to the projected sea level rise and sediment supply reduction scenarios. *Journal of Quaternary Science*. DOI: 10.1002/jqs.1434

Janeiro, J., **Martins, F.**, Relvas, P., 2012. Towards the development of an operational tool for oil spills management in the Algarve Coast. *Journal of Coastal Conservation*. 16:449 – 460. DOI 10.1007/s11852-012-0201-8

Silva, P., Martins, F., Boski, T. and Sampath, R., 2012. Modeling Basin Infilling Processes in Estuaries using two different approaches: An Aggregate Diffusive Type Model and a Processed Based Model. *Journal of Integrated Coastal Zone Management* 12(2):117-129.

Morais, P., **Martins, F.**, Chicharo, M. A., Lopes, J. and Chicharo, L. , 2012, Merging anchovy eggs abundance into a hydrodynamic model as an assessment tool for



estuarine ecohydrological management. *River Research and Applications*, 28:160-176.

Vieira, V. M. N. C. S., **Martins, F.**, Silva, J. and Santos, R., 2013, Numerical tools to estimate the flux of a gas across the air–water interface and assess the heterogeneity of its forcing functions. *Ocean Sci.*, 9:355–375.

### **Peer Review National Journals**

Pina, P., Braunchweig, F., Saraiva, S., Santos, M., **Martins, F.** e Neves, R. A importância dos processos físicos no controlo da Eutrofização em Estuários. *Newsletter Global IGBP Change*, Julho 2003, 4pp.

### **International Conferences**

Roriz, L., A. Inverno, **F. Martins** e F. Firmino, 1993. *Os Regulamentos Termoenergéticos Nacionais e os Efeitos dos Ganhos Solares*. VI Congresso Ibérico de Energia Solar, Lisboa, Portugal.

**Martins, F.**, Neves, R., Leitão, P. 1998. *Application of a 3D hydrodynamic model to the Sado estuary*. Poster no Simpósio Internacional SIPRES, Faro, Portugal.

**Martins, F.**, R. Neves e P. Leitão, 1998. *A three-dimensional hydrodynamic model with generic vertical coordinate*. *Proceedings de Hydroinformatics'98*, Vol. 2, pp. 1403-1410, Ed. V. Babovic & L. C. Larsen, Balkema, Rotterdam.

Neves, R., **Martins, F.**, Santos, A. 1998. Improvement of vertical discretization using finite volumes. Conferência JONSMOD98 Delft, The Netherlands.

Neves, R., **Martins, F.**, Santos, A., Nunes, P., Pereira V., Rosa, T., 1997. The finite-volume v.s. the sigma coordinate in med sea modelling. Conferência MEDMOD Modelling in the med sea, Villefranches sur Mer.

**Martins, F.**, R. Neves, e P. Leitão, 2000. *Simulating water mixing in a barotropic estuary: the effect of vertical discretization*. Conferência Internacional ECSA31, Bilbao, Espanha.

Gómez-Gesteira, M., M. Castro, J. Taboada, R. Prego, M. Ruiz-Villarreal, **F. Martins** e V. Pérez-Villar, 2000. *Changes in circulation patterns and sediment transport in the Golfo Ártabro (NW Spain) induced by antropogenic influence*. Poster na Conferência Internacional ECSA31, Bilbao, Espanha.

Montero, P., M. Ruiz-Villarreal, **F. Martins**, J. Taboada, M. Gómez-Gesteira, M. Castro, e V. Pérez-Villar, 2000. *Simulation of the across current in the Rías Baixas (Galicia, NW Spain)*. 3th Symposium on the Iberian Atlantic Margin, Faro, Portugal.

Gómez-Gesteira, M., M. Castro, J. Taboada, R. Prego, P. Montero, **F. Martins** e V. Pérez-Villar, 2000. *Evolution of the circulation pattern in the Ría of A Coruña (NW-Spain): Residence time in the harbor area*. Coloquio Internacional de Oceanografía del Golfo de Vizcaya, Biarritz, Espanha.

Caeiro, S., **Martins, F.**, Costa, M.H., Painho, M. e Neves, R., 2001. *Metodologia de Gestão Dinâmica do Estuário do Sado*. 1º Congresso sobre Planeamento e Gestão do Litoral dos Países de Expressão Portuguesa, S. Miguel, Açores.

**Martins, F.**, R. Neves, e P. Pina, 2001. *Modelling Antropogenic Impact on Primary Production of Sado Estuary*. Poster e resumo alargado na conferência internacional ERF2001, Florida, U.S.A.

Painho, M., R. Sena, S. Caeiro, **F. Martins**, M.H.Costa e R.Neves, 2002. *Integration of numerical models in geographic databases: The case of Sado Estuary management*. Proceedings de Hydroinformatics 2002 Vol. 2 pp.1239-1245. Ed. I.D. cluckie, D. Han, J.P. Davies and S. Heslop. IWA Pub.

Braunschweig, F., P. Chambel, **F. Martins** e R. Neves, 2002. *A methodology to estimate the residence time of estuaries*. Poster e Extended Abstract in PECS 2002 conference. pp. 49-52. Ed. H. Buchar, B. Gardeike, I. Grabemann e J. Kappenberg.

Pina, P, Braunschweig F , Leitão P , **Martins F**, Neves R, 2003. *Development of an Integrated System for Coastal Waters*. Meris User Workshop 2003, Esrin, Italy

**Martins, F.**, P.Pina, F. Braunschweig, S.Saraiva, M.Santos & R.Neves, 2004. *EU Water Framework Directive: will the nitrate load reduction from diffuse sources produce the same results in all estuaries?*. Proceedings of Ecohydraulics'04 International Conference, Madrid, Spain

S.Saraiva, **Martins, F.**, P.Pina, F. Braunschweig, M.Santos & R.Neves, 2004. *EU Water Framework Directive: Dealing with nutrient loads in estuaries*. Proceedings of ECSA 2004 Local Meeting, Lisboa, Portugal.

**Martins, F.**, E. Fernandes, 2004. *Hydrodynamic model intercomparison for the patos lagoon (brazil)*. 123-126, Proceedings of EMS 2004 IASTED Org., Ed. Lucio Ubertini, ACTA Press.

**Martins, F.**, A. Brito, J. Janeiro, J. Lopes, A. Venâncio, S. Nunes, C. Garcia, S. Sousa, P. Pina, D. Anjos, R. Neves, C. Madeira, A. Martins e J. Freire, 2005. *Combining sampling, profiling, remote sensing and modelling to efficiently monitoring estuarine and coastal water quality*. Proceedings of ECSA 2005, Edimburgh.

Morais, P., M. Chicharo, **F. Martins**, L. Chicharo e J. Lopes, 2005. *Coupling anchovy eggs and a hydrodynamic model as an assessment tool for estuarine ecohydrological management*. Proceedings of ECSA 2005, Edimburgh.

Gabriel, S., **Martins, F.**, Taborda, R., Drago, T., 2005. Simulation of past sedimentary dynamics in Douro estuary: first results. COASTAL HOPE - "Iberian Coastal Holocene Paleoenvironmental Evolution", Lisboa, Portugal, 24 a 29 de Julho. In: Proceedings book, 71-73

**Martins, F.**, Janeiro, J., Venâncio, A., Gabriel, S., Lopes, J., Neves, R., Freire, J. and Martins, A., 2006. Hydroinformatics Based Decision-Making Integrating Modelling, Sampling and Profiling: the Ria Formosa Case. 7th International Conference on Hydroinformatics, HIC 2006, Nice, FRANCE.

Caeiro S., Costa, M.H., Goovaerts, P. and **Martins, F.**, 2006. Benthic Biotope Index For Classifying Estuarine Habitats. A Case Study. 41<sup>st</sup>. ECSA Internacional Conference, Venice.

Lopes, J., Gabriel, S., **Martins, F.**, Venâncio, A. & Neves, R., 2006. Modelling the discharge of a new WWTP in Guadiana estuary. 5<sup>o</sup> Simpósio sobre a Margem Ibérica Atlântica, Poster and Extended Abstract.

Venâncio, A., **Martins, F.**, Chambel, P. and Neves, R., 2006. Modelação Hidrológica da Bacia Drenante da Albufeira de Pracana. 5<sup>o</sup> Congresso Ibérico, Gestão e Planeamento da Água.

Martins, F., Janeiro, J., Gabriel, S., Venâncio, A., Neves, R., Chicharo, L. and Santos, R., 2007, Advanced monitoring of South Portugal water bodies towards WFD. Poster on the Water Status Monitoring under the WFD Conference, IWO, Lille, France.

Xavier, B.M. and **Martins, F.**, 2008. Impact of climate change and anthropogenic pressures on a small tidal creek: ribeira de almargem, ria formosa, Portugal. AMBIENTALIA, Congresso Andaluz de Desarrollo Sostenible, Huelva, Spain.

Gabriel, S., **Martins, F.**, 2008. Application of a morphodynamic process based model in long-term climate change studies. Ambientalia - VII Congreso Andaluz de Ciencias Ambientales. Huelva 17 a 19 de Abril. In: Libro del Congreso, 190-191.

Gabriel, S., **Martins, F.**, 2008. Morphodynamic Process Based Model Applied To Long-Term Studies. 4th annual conference IGCP – Project 495: “Quaternary Land-Ocean Interactions: Driving Mechanisms and Coastal Responses”, Algarve, Portugal, 27th October – 1th November. In: Abstract Book, 94-95.

Gabriel, S., **Martins, F.**, 2008 Application of a morphodynamic process based model in long-term studies. Poster in 1st METECH Workshop: “From deep-sea to coastal zones: Methods & Techniques for studying Paleoenvironments”, Faro, 25-29 of February

Gabriel, S. and **Martins, F.**, 2009. Morphodynamic Process Based Model Applied to Long-Term Studies, Poster in IGBP 2008, Faro.

**Martins, F.** and Gabriel, S., 2009. A Morphodynamic Process Based Model For Long-Term Basin Filling Studies, 8<sup>th</sup>. International Conference on Hydroinformatics, Concepción, Chile.

Gabriel, S., **Martins, F.**, 2009. First results of a long term morphodynamic process based model. 10th International Coastal Symposium, Lisbon, Portugal, 13-18 of April. In: Book of abstracts, 177

Silva, P.L., Gabriel, S., **Martins, F.** 2009. Aplicação de um modelo matemático para a evolução morfodinâmica de estuários a longo prazo associada às alterações climáticas. Poster em VII Reunião do Quaternário Ibérico: o futuro do ambiente da Península Ibérica - as lições do passado geológico recente. Faro, Portugal, 5 a 9 de Outubro

Silva, P.L., **Martins, F.**, Gabriel, S., 2009, Process based model applied to morphologic evolution for long-term climate change studies, International Workshop on Environmental Hydraulics, Valencia, Spain.

Silva, P.L., **Martins, F.**, Boski, T., Sampath, R., 2010, Basin infilling of a schematic 1D estuary using two different approaches: a diffusion model and a processed based model, Geophysical Research Abstracts, Vol. 12, EGU General Assembly 2010, 02-07 May 2010. Vienna, Austria.

Sampath, R., Boski, T., Silva P., **Martins F.**, 2010. Numerical study of the morphological evolution of the Guadiana estuary in response to the projected sea level rise and sediment supply reductions, Geophysical Research Abstracts, Vol. 12, EGU General Assembly 2010, 02-07 May 2010. Vienna, Austria

**Martins, F.**, Janeiro, J., Suruj, B., Verelst, N. and Cocco, M., 2010, Argomarine: A New Oil Spill Early Warning System Integrating Modeling, In-Situ and Remote Sensing, 9<sup>th</sup>. International Conference on Hydroinformatics, Tianjin, China.

Janeiro, J., **Martins, F.**, Zacharioudaki, A., 2011, Oil Spill forecasting tools integrated in an early detection and monitoring system for the Tuscany Archipelago. Poster Session presented at European Geosciences Union 2011 Assembly, Vienna 4 - 8 April 2011.

Janeiro, J., **Martins, F.**, Zacharioudaki, A., Sahardi, E., Neves, A., 2013, Enhancing the management response to oil spills in the Tuscany Archipelago through operational modeling. 7<sup>th</sup>. International Conference on Marine Pollution and Ecotoxicology, Hong Kong, China.

### **National Conferences**

Neves, R., **Martins, F.**, 1996. *Modelação Lagrangeana dos Processos de Transporte na Ria Formosa*. 5<sup>a</sup> Conferência Nacional Sobre a Qualidade do Ambiente, Aveiro.

**Martins, F.**, R. Neves, e P. Leitão, 1999. *Modelação Hidrodinâmica de escoamentos Costeiros*. Jornadas “A Investigação no Ensino Superior Politécnico”, Santarém, Portugal.

**Martins, F.**, R. Neves, e P. Pina, 2001. *Modelação do Impacte Produzido pelo Aumento de Nutrientes na Produção Primária do Estuário do Sado*. pp. 11. 1<sup>as</sup> Jornadas Politécnicas de Engenharia, Leiria.

Venâncio, A., A. Brito, **F. Martins** e M. Reis, 2004. *Modelação da qualidade microbiológica da água na ria formosa*. 7<sup>o</sup> Congresso da Água, LNEC, Lisboa.

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