Marco Mazzuoli - CV

Research Fellow	Date and place of birth:	
Dept. of Civil, Chemical and Environmental Engineering (DICCA)	November the 7th 1984 Arezzo, Italy	
University of Genoa	Italian	
Via Montallegro 1, 16145 Genoa, Italy		
Phone number: +39 (010) 335-2379		
marco.mazzuoli@unige.it		
ACADEMIC EXPERIENCE		

Research Fellow (tenure track) Department of Civil, Chemical and Environmental Engineering (DICCA) University of Genoa, Genoa, Italy	2018 –
Assistant Researcher Department of Civil, Chemical and Environmental Engineering (DICCA) University of Genoa, Genoa, Italy	2015 - 2017
Assistant Researcher DFG project Institute for Hydromechanics (IfH) Karlsruher Institut für Technologie (KIT), Karlsruhe, Germany	2014 - 2015
Assistant Researcher Department of Civil, Chemical and Environmental Engineering (DICCA) University of Genoa, Genoa, Italy	2013

EDUCATION

Italian Certification for tenured Associate Professorship (ASN)	November 2020 –
PhD in Fluid Dynamics and Processes in Environmental Engineering University of Genoa, Genoa, Italy THESIS: "Transition to turbulence in an oscillatory boundary layer and its effects on the motion of a rigid particle" <i>"European PhD" label</i>	26th March 2013
Master Degree, Environmental Engineering University of Florence, Florence, Italy THESIS: "Bank stability model in river meandering" Grade: 110/110 cum Laude	21st July 2009
Piano Diploma (10 years), F. Morlacchi Music Academy, Perugia, Italy M° Luigi Tanganelli Grade: 9.5/10	7th July 2007
Bachelor of Science, Environmental Engineering University of Florence, Florence, Italy THESIS: "Analysis of the effects of detention basins on the flood discharge of Rimaggio Creek according to Arno River's Basin Plan and suggestions for the reduction of hydraulic risk" Grade: 110/110	15th December 2006
High School Diploma, Liceo Scientifico F. Redi, Arezzo, Italy Grade: 100/100	July 2003

SCIENTIFIC INTERESTS

Fluid mechanics related to the phenomenon of sediment transport and to the origin of bedforms in oscillatory boundary layers and open-channel flows.

Particulate flows and rheology of granular suspensions.

Origin and propagation of debris flows.

of Genoa)

Mechanics of vegetated or artificially reinforced soils and the role of vegetation in the slope stabilization. Dispersion of micro- and nano-particles of plastic in cohesive sediment.

RESEARCH PROJECTS AND GRANTS

J1 Program nr. P-1-01285, University of Florida (UF), Gainesville, FL, USA Aug 2019 – Dec 2019 Short-Term Scholarship at the UF Department of Mechanical and Aerospace Engineering (MAE), UF Project granted by Prof. S. Balachandar (CCMT, MAE)

Co.PI in NICOP Project pr.nr. 1000006450, ONR Global Sep 2017 -Cooperation with Naval Research Laboratory (NRL), Stennis Space Center (MS, USA) TITLE: "Developing a probabilistic model for sediment transport in oscillatory flow using direct numerical simulations" Project responsibles: Prof. Paolo Blondeaux, Dr. Marco Mazzuoli and Prof. G. Vittori (DICCA - University of Genoa), Dr. Joseph Calantoni and Dr. Julian Simeonov (NRL - SSC) PRIN Project 2010-2011 prot.2010SWTCKC-008 Mar 2015 – Jan 2016 TITLE: "Mechanical and hydrological modelling of vegetation stabilizing effects aimed at reducing the risk of landslides" Project responsible: Prof. Riccardo Berardi (DICCA - University of Genoa) Co.PI in NICOP Project pr.nr. N6290914PR00165, ONR Global Mar 2014 – Oct 2016 Cooperation with NRL, Stennis Space Center (MS, USA) TITLE: "Numerical investigation on the effect of turbulent vortices on the incipient erosion of a sand-mud seafloor" Project responsibles: Prof. Paolo Blondeaux and Dr. Marco Mazzuoli (DICCA - University of Genoa), Dr. Joseph Calantoni e Dr. Julian Simeonov (NRL - SSC) Research Project nr. UH 242/4-2 funded by Deutsche Forschungsgemeinschaft (DFG) Feb 2014 – Jan 2016 IfH, KIT, Karlsruhe, Germany TITLE: "Open channel flow over fixed spheres" Numerical investigation on turbulence, erosion processes and sediment transport: statistical description of the interaction between turbulent structures and sediments in open-channel flow Project responsible: Prof. Markus Uhlmann (KIT) CARIGE research grant (D.R. n. 1156 del 5.11.2012) Feb 2013 – Feb 2014 TITLE: "Debris flows and dynamics of granular suspensions" Scientific responsible: Prof. Riccardo Berardi (DICCA - University of Genoa) DAAD research grant for "short research periods" at IfH, KIT, Germany Jul 2012 - Aug 2012 Scientific responsible: Prof. Markus Uhlmann TITLE: "Numerical investigation of an oscillatory boundary layer over a rough wall" Jul 2011 – Mar 2012 ERASMUS agreement, IfH, KIT, Karlsruhe, Germany Scientific responsible: Prof. Markus Uhlmann Objective: Development and validation of an efficient parallel code to make direct numerical simulations of incompressible Navier-Stokes equations over surface with complex geometry. Jan 2010 – Dec 2012 PhD granted by University of Genoa Supervisors: Prof. Giovanna Vittori, Prof. Paolo Blondeaux, Prof. Giovanni Seminara (DICAT, University

TEACHING

DICCA, University of Genoa Teaching the course of "Fluid mechanics for transport processes" (Chemical engineering, cod. 9104)	2022 - 2).
DICCA, University of Genoa Teaching the course of "Hydrodynamics" (Nautical engineering, cod. 67397) at DITEN.	2020 -
DICCA, University of Genoa 2014 Co-Teaching the course of "Hydraulics" (Civil Engineering, cod. 60397) at DICCA.	8 - 2020

SEMINARS

Scientific visit and seminar. TITLE: "Sediment transport under sea waves explored by fully-resolved numerical simulations" Invited by Prof. S. Balachandar	
Scientific visit and seminar.	n"
Invited by Prof. M. Uhlmann	
Polytechnic of Milan No Scientific visit and seminar. TITLE: "Numerical Investigation of the Flow-Sediment Interaction Under an Oscillatory Flow" Organized by Prof. Claudio Di Prisco	Jov 2016
IfH, KIT, Karlsruhe, GermanyJSeminar.TITLE: "Direct Numerical Simulation of fully-rough open-channel flow"Organized by Dr. Christof Gromke	Jul 2015
IfH, KIT, Karlsruhe, GermanyJaSeminar.TITLE: "Flow-particle interaction in an oscillatory boundary layer"Organized by Dr. Agathe Chouippe	Jan 2015
University of Florida, Gainesville (FL), U.S.A. As Scientific visit. Invited by Prof. S. Balachandar	Aug 2014
IfH, KIT, Karlsruhe, GermanyDScientific visit and seminar.TITLE: "Transition to turbulence in an oscillatory boundary layer: a numerical investigation"Invited by Prof. M. Uhlmann	Dec 2013
NRL, Stennis Space Center (MS), U.S.A. Ju Scientific visit and seminar. TITLE: "Transition to turbulence in an oscillatory boundary layer: a numerical investigation" Invited by Dr. Joe Calantoni and Dr. Julian Simeonov BEVIEWEB	Jun 2013

REVIEWER

Reviewer for prestigious international journals: among others Journal of Fluid Mechanics, International Journal of Multiphase Flow, Journal of Geophysical Research, Advances in Water Resources, European Journal of Mechanics B/Fluids, Geomorphology, Chemical Engineering Science, Journal of Hydraulic Research.

ORGANIZATION OF SCIENTIFIC EVENTS

EUROMECH COLLOQUIUM no. 609 TITLE: "Granular patterns in oscillatory flows", Genoa, Italy	8-10 Sep 2021
Advanced Course at International Centre for Mechanical Sciences (CISM), Udine, Italy TITLE: "Physics of granular suspensions: micro-mechanics of geophysical flows"	14-18 Jun 2021
GUEST SPEAKER INVITATIONS AND OTHER HONOURS	
Invited to give a talk at the ERCOFTAC Autumn Festival 2021	7-8 Oct 2021
Invited to give a "Spotlight lecture" at workshop THESIS 2019, Newark, Delaware, USA	17-19 Sep 2019
Nominated and Finalist of the "Andrea Prosperetti Award" (formerly Junior Award) of the 10th International Conference of Multiphase Flow, ICMF 2019, Rio de Janeiro, Brazil	ne 19-24 May 2019
Fulbright research scholarship, Project "Dynamics of non-Brownian spheres in colloidal flo "deputy", University of Florida, Gainesville, USA	w" nominated as 17 Apr 2019

PROJECTS ON HPC FACILITIES

ISCRA D-Project "MOSTARCH" - HP10DLD0A9 160 TB of space for archive (CINECA, Italy). Project responsible: Marco Mazzuoli	24-Jun-2021/23-Jun-2024
ISCRA B-Project "STIRSBED" 4 M core hours on Galileo 100 (CINECA, Italy). TITLE: "Sediment transport in rippled Seabed" Project responsible: Marco Mazzuoli	5-May-2021/3-May-2022
ISCRA C-Project "TURBOSEA" 64 k core hours on MARCONI 100 (CINECA, Italy). TITLE: "Turbulence at seabed: analysis of MOSTSEA project DNS data" Project responsibles: Marco Mazzuoli	20-Mar-2021/19-Mar-2022
 PRACE Project, 16th call "MOST SEA" 60 M core hours on MARCONI KNL (CINECA, Italy). TITLE: "The Mechanics Of Sediment Transport Under Sea Waves" Project responsibles: Giovanna Vittori, Marco Mazzuoli 	1-Apr-2018/31-Mar-2020
ISCRA B-Project "MOST SEAP" 2 M core hours on MARCONI KNL (CINECA, Italy). TITLE: "The Mechanics Of Sediment Transport Under Sea Waves - Preliminary Project responsibles: Marco Mazzuoli, Giovanna Vittori	1-Apr-2018/31-Mar-2019 Phase"
 Project "DNSWALL" 5 M core hours on ForHLR II, Steinbuch Centre for Computing (SCC, KIT) TITLE: "Direct Numerical Simulation of of Open-Channel Flow Over A Rough" Project responsibles: Markus Uhlmann, Marco Mazzuoli 	1-Apr-2018/31-Mar-2019 Wall"
Resources of the DoD HPCMP Open Research Systems ~ 10 M core hours on COPPER (Cray XE6, DoD ORS, SCC, MS, USA)	2014 - 2019

DNS of oscillatory boundary layer over a rough wall, flat or wavy Project responsibles: Marco Mazzuoli, Paolo Blondeux, Joe Calantoni, Julian Simeonov		
 Project "DNSBESTSEA" 5 M core hours on ForHLR I, Steinbuch Centre for Computing (SCC, KIT) TITLE: "Direct Numerical Simulation of Bedform Evolution and Sediment Transp Project responsibles: Markus Uhlmann, Marco Mazzuoli, Aman Kidanemariam 	1-Apr-2015/31-Mar-2016 ort at SEAfloor"	
Project "pr87yo"16-Sep-2014/1-Nov-201724 M core hours on SuperMUC, Leibniz Supercomputing Centre (LRZ, Monaco)TITLE: "Direct numerical simulation of open channel flow over a fully rough surface"Project responsibles: Markus Uhlmann, Marco MazzuoliReports in High Performance Computing in Science and Engineering, Garching/Munich 2016, pp.164-165and High Performance Computing in Science and Engineering, Garching/Munich 2018, pp.144-147		
ISCRA C-Progetto 500 k core hours on PICO (CINECA, Italy) TITLE: "Turbulence Events and Sediment Transport at SEAbed: Post Processing" Project responsibles: Giovanna Vittori, Marco Mazzuoli	, 2014	
 Progetto PRACE 7th call "TEST SEA", nr. "IsC09_TOBL" 35 M core hours on FERMI (CINECA, Italy). TITLE: "Turbulence Events and Sediment Transport at SEAbed" Project responsibles: Giovanna Vittori, Marco Mazzuoli, Markus Uhlmann Cineca HPC Report 2015, pp.57-58 	3-Sep-2013/2-Sep-2014	
ISCRA C-Project 2 M core hours on FERMI (BG/Q machine, CINECA, Italy) TITLE: "Turbulent str boundary layer close to a rough wall"	2012 ructures in the oscillatory	

Project responsibles: Giovanna Vittori, Marco Mazzuoli.

LANGUAGES

Italian: Mother language English: Advanced German: Basic

PUBLICATIONS

Articles in journals

- 1. Mazzuoli, M., Vittori, G., Blondeaux, P. "The dynamics of sliding, rolling and saltating sediments in oscillatory flows", European Journal of Mechanics B/Fluids, **94**, 246-262, 2022
- Vittori, G., Blondeaux, P., Mazzuoli, M. "Direct Numerical Simulations of the Pulsating Flow over a Plane Wall", Journal of Marine Science and Engineering, 8(11), 893, 2020
- 3. Vittori, G., Blondeaux, P., Mazzuoli, M., Simeonov, J. and Calantoni, J. "Sediment transport under oscillatory flows", International Journal of Multiphase Flow, **133**, 103454, 2020 (arXiv:2009.01541)
- Mazzuoli, M., Blondeaux, P., Vittori, G., Uhlmann, M., Simeonov, J., Calantoni, J. "Interface-resolved direct numerical simulations of sediment transport in a turbulent oscillatory boundary layer", Journal of Fluid Mechanics, 885, A28, 2020 (arXiv:1912.00048)

- 5. Mazzuoli, M., Vittori, G., "Turbulent spots in an oscillatory flow over a rough wall", European Journal of Mechanics B/Fluids 72, 161-168, 2019 (pre-print)
- Mazzuoli, M., Kidanemariam, A. G., Uhlmann, M. "Direct numerical simulations of ripples in an oscillatory flow", Journal of Fluid Mechanics, 863, 572-600, 2019 (arXiv:1810.09862)
- Mazzuoli, M., Blondeaux, P., Simeonov, J. and Calantoni, J. "Direct numerical simulation of oscillatory flow over a wavy, rough and permeable bottom", Journal of Geophysical Research - Oceans, 123, 1596-1611, 2018
- Bovolenta, R., Mazzuoli, M., Berardi, R., "Soil bio-engineering techniques to protect slopes and prevent shallow landslides", Rivista Italiana di Geotecnica, 3, 44-65, 2018
- Mazzuoli, M., Uhlmann, M. "Direct numerical simulation of open-channel flow over a fully-rough wall at moderate relative submergence", Journal of Fluid Mechanics. 824, 722-765, 2017 (arXiv:1706.01880)
- Mazzuoli, M., Blondeaux, P., Simeonov, J. and Calantoni, J. "Direct numerical simulation of the oscillatory flow around a sphere resting on a rough bottom", Journal of Fluid Mechanics. 822, 235-266, 2017 (arXiv:1706.3566)
- Blondeaux, P., Vittori, G., Mazzuoli, M. "Pattern formation in a thin layer of sediment", Journal of Marine Geology, 376, 39-50, 2016
- Mazzuoli, M., Bovolenta, R., Berardi, R. "Experimental Investigation on the Mechanical Contribution of Roots to the Shear Strength of a Sandy Soil", Procedia Engineering. 158, 45-50, 2016
- 13. Mazzuoli, M., Vittori, G. "Transition to turbulence in an oscillatory flow over a rough wall", Journal of Fluid Mechanics **792**, 67-97, 2016
- 14. Mazzuoli, M., Kidanemariam, A. G., Blondeaux, P., Vittori, G. and Uhlmann, M. "On the formation of sediment chains in an oscillatory boundary layer", Journal of Fluid Mechanics, **789**, 461-480, 2016
- Mazzuoli, M., Seminara, G., Vittori, G. "Settling of heavy particles in a turbulent Stokes layer: Numerical simulations", Advances in Water Resources 72, 2-14, 2014
- Mazzuoli, M., Vittori G., Blondeaux P. "Turbulent spots in a Stokes boundary layer", Journal of Physics: Conference Series, 318, 13th European Turbulence Conference (ETC13), 2011
- Mazzuoli, M., Vittori G., Blondeaux P., "Turbulent spots in oscillatory boundary layers", Journal of Fluid Mechanics. 685, 365-376, 2011

Peer-reviewed proceedings

- Mazzuoli, M., Berardi, R. "Numerical simulation of a debris flow propagation: A case of study in Cinque Terre, Liguria", Landslides and Engineered Slopes. Experience, Theory and Practice. Jun 2016. 1393-1399
- Mazzuoli, M., Blondeaux, P., Simeonov, J. and Calantoni, J. (2016). "Oscillatory flow around a sphere resting on a rough bottom: Direct Numerical Simulations", Proc. 26th International Ocean and Polar Engineering Conference, 26th June-1st July 2016, Rhodes, Greece.
- Mazzuoli, M., Vittori G., Blondeaux P. "Spot turbolenti in uno strato limite oscillante", Proc. XX Congresso dell'Associazione Italiana di Meccanica Teorica e Applicata (AIMETA), 12-15 Sep 2011, Bologna

Published reports

- Uhlmann M., Mazzuoli, M., "Direct Numerical Simulation of Open-Channel Flow at Fully-Rough Regime", High Performance Computing in Science and Engineering, Garching/Munich 2018, pp.144-147
- Mazzuoli, M., Uhlmann M., "Direct Numerical Simulation of Open-Channel Flow at Fully-Rough Regime", High Performance Computing in Science and Engineering, Garching/Munich 2016 pp.164-165
- 22. Vittori, G., Mazzuoli, M. "Direct Numerical Simulation of oscillatory flow over a rough bottom composed of fixed and movable particles", CINECA HPC Annual Report 2015 PRACE section, pp.57-58
- Blondeaux, P., Mazzuoli, M., Calantoni, J., Simeonov, J. "Numerical Investigation of the Effect of Turbulent Vortices on the Incipient Erosion of a Sand-mud Seafloor Produced by Oscillatory Flow", ONRG annual report, 2016
- Blondeaux, P., Mazzuoli, M., Calantoni, J., Simeonov, J. "Numerical Investigation on the Formation of Sediment Patterns Under an Oscillatory Flow", ONRG annual report, 2015 (or alternatively https://www.onr.navy.mil/reports/FY15/loblond.pdf)
- Blondeaux, P., Mazzuoli, M., Calantoni, J., Simeonov, J. "Numerical Investigation of the Effect of Turbulent Vortices on the Incipient Erosion of a Sand-mud Seafloor Produced by Oscillatory Flow", ONRG annual report, 2014

CONFERENCES

- Kidanemariam, A.G., Mazzuoli, M., I. Marusic, J. Monty, "On the suspended microplastic dispersion in shallow flows under progressive gravity waves", APS DFD 2022 - 75th Annual Meeting, Indianapolis, November 20-22 2022 (abstract)
- Mazzuoli, M., Blondeaux, P., Vittori, "Sea-wave sediment transport: when turbulent vortices encounter sediment particles", XXXVIII Convegno Nazionale di Idraulica e Costruzioni Idrauliche (IDRA 2022), Reggio Calabria, September 2022 (abstract)
- Mazzuoli, M., "Direct numerical simulations reveal the effect of bedload on turbulence dynamics in an oscillatory flow", Two-pHase modElling for Sediment dynamIcS (THESIS) 2022, Les Houches, France, June 6-10 2022 (abstract)
- Mazzuoli, M., Blondeaux, P., Vittori, "Sediment transport and sediment dynamics in a turbulent oscillatory boundary layer: results of interface-resolved simulations", 25th International Congress of Theoretical and Applied Mechanics (25th ICTAM), August 22-27 2021, virtual (abstract)
- Mazzuoli, M., Blondeaux, P., Vittori, G., Simeonov, J., Calantoni, J., "Interaction between waveinduced nearbed vortex structures and cohesionless sediments: numerical results", virtual B'Waves 21, A Virtual Workshop on (Breaking) Waves, June 16-18 2021, virtual (abstract)
- Mazzuoli, M., "A discrete approach to evaluate sediment transport in an oscillatory boundary layer", 4th symposium on two-phase modeling for sediment dynamics in geophysical flows, THESIS 2019, September 17-19 2019, Newark, Delaware (USA) (abstract)
- Simeonov, J., Mazzuoli, M., Calantoni, J., "Rheology of dense granular suspensions in oscillatory bottom boundary layer flow", 4th symposium on two-phase modeling for sediment dynamics in geophysical

flows, THESIS 2019, September 17-19 2019, Newark, Delaware (USA)

- Mazzuoli, M., Simeonov, J., Calantoni, J., "Direct numerical simulation of sediment transport in a turbulent oscillatory boundary layer", 12th Workshop Direct and Large-Eddy Simulation (DLES12), June 5th-7th 2019, Madrid (Spain) (abstract)
- Mazzuoli, M., Calantoni, J., Uhlmann, M., "Direct numerical simulation of sediment transport in an oscillatory boundary layer", 10th International Conference on Multiphase Flow, ICMF 2019, May 19th-24th 2019, Rio de Janeiro (Brazil) (abstract)
- Mazzuoli, M., "Simulazione diretta del trasporto solido di fondo generato dal moto ondoso", XXXVI Convegno Nazionale di Idraulica e Costruzioni Idrauliche, 12-14 September 2018, Ancona (Italy)
- Mazzuoli, M., Kidanemariam, G.A., Uhlmann, M., "Direct numerical simulation of small-scale bedforms in an oscillatory flow". 12th European Fluid Mechanics Conference, 9-13 September 2018, Vienna (Austria)
- Mazzuoli, M., "The role of turbulence in the onset of sediment buoyancy under sea waves", joint workshop between GDRI GeoMech and Politecnico di Milano: "Accounting for phase transition in granular media: from micromechanics to macroscopic unified modeling", 6-7 September 2018, Milan (Italy)
- Mazzuoli, M., Kidanemariam, G.A., Uhlmann, M. "Direct numerical simulation of the formation of rolling-grain ripples in an oscillatory boundary layer". EUROMECH Colloquium #588, Coupling Mechanisms and Multi-Scaling in Granular-Fluid Flows, 2-5 Ottobre 2017, IMFT, Toulouse (France)
- Mazzuoli, M., Uhlmann, M. "Direct numerical simulation of open-channel flow at fully-rough regime". XXIII Congresso dell'Associazione Italiana di Meccanica Teorica e Applicata (AIMETA), 4-7 Settembre 2017, Salerno (Italy)
- Mazzuoli, M., Bovolenta, R., Berardi, R., "Experimental investigation on the mechanical contribution of roots to the shear strength of a sandy soil". Convegno Nazionale dei Ricercatori di Ingegneria Geotecnica (CNRIG 2016), 22-23 Sep 2016, Bologna (Italy)
- Mazzuoli, M., Blondeaux, P., Simeonov, J. and Calantoni, J. "Oscillatory flow around a sphere resting on a rough bottom: Direct Numerical Simulations". International Ocean and Polar Engineering Conference, 26th June-1st July 2016, Rhodes (Greece)
- Mazzuoli, M., Berardi, R., "Numerical simulation of a debris flow propagation: a case of study in Cinque Terre, Liguria". 12th International Symposium on Landslides (ISL 2016), 12-19 Jun 2016, Naples (Italy)
- Mazzuoli, M., Kidanemariam, G.A., Blondeaux, P., Vittori, G., Uhlmann, M. "DNS of the formation of sediment patterns under the action of an oscillating flow". 9th International Conference on Multiphase Flow (ICMF 2016) 22-27 May 2016, Florence (Italy)
- Mazzuoli, M., Vittori, G. "Oscillatory flow close to a regular roughness". XXII Congresso dell'Associazione Italiana di Meccanica Teorica e Applicata (AIMETA), 14-17 Sep 2015, Genova (Italy)
- Mazzuoli, M., Kidanemariam, G.A., Blondeaux, P., Vittori, G., Uhlmann, M. "Direct numerical simulation of the first stages of formation of small scale bedforms under sea waves". XXII Congresso dell'Associazione Italiana di Meccanica Teorica e Applicata (AIMETA), 14-17 Sep 2015, Genova (Italy)

- Mazzuoli, M., Uhlmann, M. "Direct Numerical Simulation of Open-Channel Flow in the Fully Rough Regime", 15th European Turbulence Conference (ETC15), 25-28 Aug 2015, Delft (The Netherlands)
- Mazzuoli, M., Uhlmann, M. "Direct Simulation of Open-Channel Flow in the Fully Rough Regime: Focus on Fluid-Roughness Interaction", EGU General Assembly 2015, vol. 17, EGU2015-11966, 12-17 Apr 2015, Vienna (Austria)
- Mazzuoli M., Vittori G., Blondeaux P. "Turbulent spots in an oscillating boundary layer over a flat smooth wall", 9th European Fluid Mechanics Conference, 9-13 Sep 2012, Rome (Italy)
- Mazzuoli M., Seminara G., Vittori G. "The settling of small particle in a turbulent oscillatory boundarylayer", 9th European Fluid Mechanics Conference, 9-13 Sep 2012, Rome (Italy)
- Mazzuoli M., Vittori G., Blondeaux P. "Turbulent spots in a Stokes boundary layer", 13th European Turbulence Conference (ETC13), 12-15 Sep 2011, Warsaw (Poland)
- Mazzuoli M., Vittori G., Blondeaux P. "Spot turbolenti in uno strato limite oscillante". XX Congresso dell'Associazione Italiana di Meccanica Teorica e Applicata (AIMETA), 12-15 Sep 2011, Bologna (Italy)
- Mazzuoli M., Seminara G., Vittori G. "Modeling the motion of a solid heavy particle in turbulent shear flows", SHF THESIS 2011, 26-28 Apr 2011, Chatou, Paris (France)