Curriculum Vitae Prof. Roberta Massabò

Dr. Roberta Massabò Professor of Solid and Structural Mechanics Coordinator PhD Program in Civil, Chemical and Environmental Engineering DICCA, University of Genova Via Montallegro 1, 16145, Genova, Italy Email address: roberta.massabo@unige.it

	1994 1990	Ph.D., Structural Mechanics, Politecnico Torino, Italy (with A. Carpinteri) Laurea magna cum laude (BS-MS), Civil Engrg., Univ. of Genova, Italy
2001- 2000-	2003 2001	Professor of Structural Mechanics, University of Genova Associate Professor of Structural Mechanics, University of Genova Adjunct Professor of Struct. Engineering Northwestern University, USA. Associate Professor of Structural Engineering (tenure track), Department of Civil and Environmental Engineering, Northwestern University, USA Associate Professor of Structural Mechanics, University of Genova Asst Professor of Structural Mechanics (with tenure), University of Genova Asst. Prof. of Structural Mechanics & Engineering, University of Genova
Mechanics of Materials/Structures; Mechanics of Fracture and delamination; Advanced composites; computational mechanics; biomechanics.		
2008-	present 2009 2002 1995 1990	General lecturer at international conferences: Plenary Lecturer, Composites 2021, ECCOMAS Thematic Conference, Sweden, 2021; International Symposium on Dynamic Response and Failure of Composite Materials, DRaF 2014, Ischia (2014); 17 th European Conference of Fracture, ECF17, Brno, Czech Republic, 2008; Introductory Lecturer at the minisymposium on Cohesive Zone Models at the International Conference of Theoretical and Applied Mechanics, ICTAM 2008, Adelaide, Australia, 2008. MTS chair for visiting professors in Geomechanics, University of Minnesota, Minneapolis, USA Fellow of the Searle Center for Teaching Excellence, Northwestern Univ. Fulbright Visiting Scholar, UCSB, California, USA.; Fulbright Occasional Lecturer Program Award, 1995. "Dignità di Stampa" award for the final thesis of the Civil Engrg. Degree
	Univ. of Minnesota (2009); Northwestern Univ. (2004, 2001-03); Russian Academy of Sciences (2002); Cornell Univ., NY (2001); Cambridge Univ., UK (1999); Rockwell Science Center, CA (1995; 1997; 1998; 2000); UCSB, CA (1995; 1999).	
2018 2013- 2013- 2013- 2015- 2007- 2011-	present 2018 2015 2018 2018 present 2015 present	Coordinator PhD Program in Civil, Chemical and Env. Engrg. UNIGE Coordinator PhD Program in Structural and Geotecnical Enrg., UNIGE Coordinator Executive Committee Mechanics of Materials Division of the Italian Ass. of Theor. and Applied Mech., AIMETA (member since 2005) Vice- Director Dept. of Civil, Chemical and Environmental Engrg, UNIGE Department Delegate for International Mobility, UNIGE. Editorial Adv. Board of the <i>Journal of Composite Materials</i> , Sage Guest Editor, special Issue in <i>Meccanica</i> on Advances in Mech. of Composite and Sandwich Structures. Member of Scientific Committees int. conferences: Int. Conf. Fracture
	2003- 2001- 2000- 1995- 1992- Mecha Advar 2008- 2018- 2018- 2013- 2013- 2013- 2015- 2007-	1990 2016- Present 2003- 2015 2003- 2005 2001- 2003 2000- 2001 1995- 2000 1992- 1995 Mechanics of Advanced comp 2008- present 2009 2002 1995 1990 Univ. of of Scien Rockwer 2018 present 2013- 2018 2015- 2018 2015- 2018 2007- present 2015

Invited seminars:	Denm ('09), Massa North	Present ark Tech. University ichusetts In western U	ICF15, Atlanta, 2021; Int. Conf. Composite Materials ICCM22, Australia 2019; XIV Int. Conf. on Fracture, ICF14, Rhodes, Greece, 2017; Int. Conf. on Impact Loading of Lightweight Structures, ICLLS 2015, Torino, Italy; Int. Symp. on Dynamic Response and Failure of Composite Materials, DRaF 2014, 2016; I Int. Conf. on Mech. of Nano, Micro and Macro Composite Structures, Torino (2012); Organizer of mini-simposia at 11 international conferences Member of the ASCE Eng. Mech. Division Elasticity Committee. Member of the ASCE Eng. Mech. Division Properties of Materials Comm. Member of a Review Panel for the National Science Foundation, USA. Reviewer for >30 Int. Journals, ISI. University DTU (2018); Università di Pisa (*10), University of Minnesota of Illinois Urbana Champaign (*04), Politecnico di Torino (*04), nstitute of Technology (*03), Northwestern Medical School (*03), niversity (*01), Cornell University (*00), Politecnico di Milano (*99), Russian	
	Academy of Sciences, Moscow ('02), Univ. of California Santa Barbara ('95), Technical Univ. of Catalonia ('94, '97), Case Western Reserve Univ. ('95), Univ. of Colorado at Boulder ('95).			
Grants and research support:			Support by: Italian MIUR; U.S. DoD, U.S. ONR, U.S. DoT, NATO; Rockwell Science Center/Teledyne, USA.	
Publications:			Author/co-author of more than 150 research publications in International Journals and Conference Proceedings. Author of 10 book chapters.	
Metrics:			H-Index (Scopus): 18; Citation Count (Scopus): 1018.	

Selected Publications:

- Ustinov, K., Massabò, R., Lisovenko, D. Orthotropic strip with central semi-infininite crack under arbitrary loads applied far apart from the crack tip. Analytical solution, *Engineering Failure Analysis*, 110 (104410), 2020.
- Massabò, R., Darban, H., Mode II dominant fracture of layered composite beams and wide-plates: a homogenized structural approach, (2019) *Engineering Fracture Mechanics*, 213, pp. 280-301.
- Massabò, R., Propagation of Rayleigh-Lamb waves in multilayered plates through a multiscale structural model, Int. Journal of Solids and Structures, 124, 2017, 108-124.
- Darban H., R. Massabò, Thermo-elastic solutions for wide plates and beams with interfacial imperfection through the transfer matrix method, *Meccanica*, 2017, 1-19, DOI 10.1007/s11012-017-0657-6.
- Massabò, R., and Campi, F., Assessment and correction of theories for multilayered plates with imperfect interfaces, *Meccanica* (2015), DOI 10.1007/s11012-014-9994-x.
- Massabò, R., and Campi, F., An efficient approach for multilayered beams and wide plates with imperfect interfaces and delaminations, *Compos Struct* 116 (2014) 311-324.
- Massabò, R., and Cavicchi, A., Interaction effects of multiple damage mechanisms in composite sandwich beams subjected to time dependent loading, *Int. Journal of Solids and Structures*, 49, 2012, 720-738.
- Andrews, M.G., Massabò, R., (2007) The effects of shear and near tip deformations on energy release rate and mode mixity of edge-cracked orthotropic layers, *Eng. Fracture Mechanics*, 74, 2700-2720.
- Andrews, M.G., Massabò, R., and Cox, B.N., (2006) Elastic interaction of multiple delaminations in plates subject to cylindrical bending, *International Journal of Solids and Structures*, 43(5), 855-886.
- Gambarotta, L., Massabò, R., Morbiducci, R., Raposio, G., and Santi, P., (2005), In vivo experimental testing and model identification of human scalp skin, *Journal of Biomechanics*, 38, 2237-2247.
- Massabò, R., and B.N. Cox (2002), Unusual characteristics of mixed mode delamination fracture in the presence of large scale bridging, *Mechanics of Composite Materials and Structures*, 8(1), 61-80.
- Rugg, K.L., Cox, B.N. and Massabò, R. (2002), Mixed mode delamination of polymer composite laminates reinforced through the thickness by z-fibers, *Composites, part A*, 33/2, 177-190.
- Massabò, R., and Cox, B.N., (1999), Concepts for bridged mode II delamination cracks, *Journal of the Mechanics* and Physics of Solids, 47(6), 1265-1300.