

| Department of

UNIVERS	ITY	Engineeri	ng   CIVIL		ONMENTA	L ENG	INEERING	
About CEE	People	Research	Academics	News & Events	Resources	Alumni	Student Groups	
People		Faculty						
Faculty		Luis Dorfmann						
Emeritus Faculty		Associate Professor, Department of Civil and Environmental Engineering Adjunct Associate Professor, Department of Biomedical Engineering						
Part-Time Lecturer		Education						
Post-Doctoral Fellows		Ph.D., 1992, Structural Mechanics, University of California, Los Angeles M.Sc., 1989, Structural Mechanics, University of California, Los Angeles						
Staff		Laurea, 1987, Structural Engineering, University of Padova, Italy						
		Registered Professional Engineer, CA, License Number: 60775						
		Teaching						
		<ul><li>Strength of Materials</li><li>Mechanical Behavior of Materials</li></ul>				Contac	t Info	
		<ul><li>Biomechanics of Soft Tissue</li><li>Nonlinear Finite Element Methods</li></ul>					Anderson Hall Tufts University	
		Research Interests <ul> <li>Nonlinear Magneto-and Electroelastic Deformations</li> <li>Mechanics of Rubberlike Solids</li> <li>Fiber-Reinforced Composites</li> <li>Mechanics of Biological Tissues</li> </ul>					Medford, MA 02155 Tel: 617-627- 6137 Fax: 617-627-3994 Email Professor	
						Fax: 61		
						View		
		<ul> <li>Mechanics</li> </ul>	s of Biocompatible M	ocompatible Materials		> Publications		
		Visit the <b>Mechanics of Soft Materials Laboratory</b> web site to learn more about Professor Dorfmann's research.						
		<ul> <li>Selected Publications</li> <li>Dorfmann A., Trimmer B.A., Woods W.A.: Muscle Performance in a Soft-Bodied Terrestrial Crawler: Constitutive Modeling of Strain-Rate Dependency, <i>Journal of Royal Society Interface</i> 5 (2008), 349-362.</li> <li>Dorfmann A., Trimmer B.A., Woods W.A.: A Constitutive Model for Muscle Properties in a Soft Bodied Arthropod, <i>Journal of Royal Society Interface</i> 4 (2007), 257-269.</li> </ul>						
		<ul> <li>Dorfmann A., Haughton D.M.: Stability and Bifurcation of Compressed Elastic Cylindrical Tubes, International Journal of Engineering Science 44 (2006), 1353-1365.</li> </ul>						
		<ul> <li>Bustamante R., Dorfmann A.: Ogden R.W., Universal Relations in Isotropic Nonlinear Magnetoelasticity, The Quarterly Journal of Mechanics and Applied Mathematics 59 (2006), 435-450.</li> </ul>						
		• Dorfmann A., Ogden R.W.: Nonlinear Electroelasticity, Acta Mechanica <b>174</b> (2005), 167-183.						
		<ul> <li>Dorfmann A., Ogden R.W.: Nonlinear Magnetoelastic Deformations, The Quarterly Journal of Mechanics and Applied Mathematics 57 (2004), 599-622.</li> </ul>						
		<ul> <li>Dorfmann A., Ogden R.W.: A Constitutive Model for the Mullins Effect with Permanent Set in Particle-Reinforced Rubber, International Journal of Solids and Structures 41 (2004), 1855-1878.</li> </ul>						
				Micromechanical Model <i>ity</i> <b>19</b> (2003), 1037-1067		lled Elastomer	s at Finite Strains,	

## **Selected Professional Activities**

- Organizer and Co-Chair with Prof. Ray W. Ogden: *Nonlinear Electroelastic and Magnetoelastic Deformations, 7th* EUROMECH Solid Mechanics Conference (ESMC2009), Lisbon, Portugal, September 7-11, 2009.
- Organizer and Co-Chair with Prof. Ray W. Ogden: Nonlinear Electroelastic and Magnetoelastic Deformations, 7th

EUROMECH Solid Mechanics Conference (ESMC2009), Lisbon, Portugal, September 7-11, 2009.

- Organizer and Co-Chair with Prof. Ray W. Ogden: *Electro-and Magneto-Mechanical Interactions in Solids*, 3<sup>rd</sup> Canadian Conference on Nonlinear Solid Mechanics (CanCNSM), Toronto, Canada, June 18-22, 2008.
- Organizer and Co-Chair with Prof. Ray W. Ogden and Prof. Alan Wineman: New Directions in Large Deformation Solid Mechanics, 44<sup>th</sup> Annual Meeting of the Society of Engineering Science, Texas A&M University, College Station, Texas, October 21-24, 2007.
- Organizer: Workshop on Physical Aspects of Multiscale Modeling. Bled, Slovenia, September 2004.
- Organizer and Co-Chair with Prof. Aleksey D. Drozdov: Advanced Course on *Mechanics of Solid Polymers: The Kinetics of Irreversible Processes*. International Center for Mechanical Sciences (CISM), Udine, Italy, 2003.
- Organizer and Co-Chair with Prof. Aleksey D. Drozdov and Prof. Ray W. Ogden: Workshop: Inelasticity and Viscoelasticity of Rubber: From Theory to Application, Vienna 2002.
- Organizer and Co-Chair with Prof. Aleksey D. Drozdov and Prof. Ray W. Ogden: EUROMECH Colloquium 438: Constitutive Equations for Polymer Microcomposites: On the Border of Mechanics and Chemistry, Vienna 2002.
- Organizer and Co-Chair with Dr. Alan Muhr: *European Conference on Constitutive Models for Rubber*, ECCMR, Vienna, 1999.

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