

Vincent Blouin

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Education

Dr. Blouin graduated from Ecole Centrale Nantes, France, in 1993 with a Engineering Diploma equivalent to a Bachelor's degree. He earned a Master's in Mechanical Engineering in 1999 and a Ph.D. in Naval Architecture and Marine Engineering in 2001 from the University of Michigan. Dr. Blouin was a Research Associate (2000-2004) and Visiting Assistant Professor (2005-2006) in Mechanical Engineering at Clemson University before accepting a joint appointment in the School of Architecture and the School of Materials Science and Engineering in 2007.

Research

Finite Element numerical modeling of structural and thermal systems. Applications include the structural analysis of the H.L. Hunley submarine, modeling of the molding process of precision glass lenses, and design and optimization of non-pneumatic tires (tweels) for space applications. Experimental activities include material characterization of historic artifacts and buildings by non-destructive testing and strain measurement techniques. Other research activities include decomposition and coordination of large scale design problems by Augmented Lagrangian Coordination, and design under uncertainty and risk.