

Goodings short biosketch – Canadian Society of Civil Engineers 2017 conference

Deborah J. Goodings is Director of the Division of Civil, Mechanical, and Manufacturing Innovation in the Engineering Directorate at the U.S. National Science Foundation. With an annual research investment budget of over \$200M, the Division supports research that advances knowledge to enable manufacturing, design and use of engineering materials, and building technologies across scales from nanometers to kilometers; to improve the resilience and sustainability of the nation's civil infrastructure, including reduction of risk and damage from natural and human-induced disasters; and to expand theory in engineering mathematics, engineering decision-making, and systems control and engineering.

Goodings is on leave from her position as Dewberry Chair Professor of Civil Engineering at George Mason University where she chaired the Department of Civil, Environmental, and Infrastructure Engineering during a five year period of realignment, and expansion of both personnel and resources. Before joining George Mason, Goodings held a faculty appointment in the Department of Civil and Environmental Engineering at the University of Maryland for nearly 30 years. In addition to her geotechnical engineering research and teaching, she co-founded and co-directed the University of Maryland Master of Engineering and Public Policy program with the School of Public Policy; and was the founding faculty advisor of the university's highly successful chapter of Engineers Without Borders-USA. An endowed chair in Engineering for Global Sustainability was established in her honor upon her departure from the University of Maryland.

Goodings has held leadership positions in professional societies, and served on U.S. and Canadian university and agency visiting committees that draw on her research and education expertise, including U.S. National Research Council committees and boards. She has been recognized by the Transportation Research Board with the Fred Burggraf Award, and by the Department of the Army with the Outstanding Civilian Service Medal. Goodings earned her B.A.Sc. in civil engineering from the University of Toronto, and her Ph.D. in geotechnical engineering from Cambridge University. She is a Fellow of the American Society of Civil Engineers; a Diplomat, Geotechnical Engineering; and a registered professional engineer.