

**Department of Structural Engineering
University of California, San Diego
SE 290 Seminar**



Professor Michael Todd
Department of Structural Engineering
University of California, San Diego

"Faculty Life at a Major Research University: Getting the Job, What to Expect, and How to Survive"

Monday, April 10, 2017

1:00 pm - 1:50 pm, Pepper Canyon Hall, Room 122

<http://structures.ucsd.edu/node/2126>

Abstract

Ever wondered what it takes to get (and keep!) an academic job at a major research university, like UC San Diego? This presentation, originally developed for American Society of Engineering Education professional development series, discusses how faculty job searches are conducted, what to expect in the job search process, and then what to expect and how to survive an early career faculty appointment at a major research university. This seminar is targeted for anyone who might be interested in or is currently seeking a faculty position.

Biography

Michael Todd received his B.S.E. (1992), M.S. (1993), and Ph.D. (1996) from Duke University's Department of Mechanical Engineering and Materials Science, where he was an NSF Graduate Research Fellow. In 1996, he began as an A.S.E.E. post-doctoral fellow, then a staff research engineer (1998), and finally Section Head (2000) at the

United States Naval Research Laboratory (NRL) in the Fiber Optic Smart Structures Section. In 2003, he joined the Structural Engineering Department at the University of California San Diego, where he currently serves as Professor of Structural Engineering. His research interests are in applying nonlinear time series techniques to structural health monitoring (SHM) applications, adapting Bayesian inference frames for optimal decision-making in SHM, developing novel ultrasonic interrogation strategies for aerospace structural assessment, optimizing sensor networks for various SHM-rooted performance measures, developing RF-based sensing systems for structural assessment, creating real-time shape reconstruction strategies for highly flexible aerospace and naval structural systems based on limited data sets, creating rapid assessment checks for validation of satellite systems, designing and testing fiber optic measurement systems for many structural applications, and modeling noise propagation in fiber optic measurement systems. Prof. Todd won the 1999 Alan Berman NRL Publication Award, the 2003 and 2004 NRL Patent Award, was a 2004-2005 UC San Diego Hellman Fellow, was an invited speaker at the 2003 National Academy of Engineering Japan-America Frontiers of Engineering Symposium, won the 2005 Structural Health Monitoring Person-of-the-Year Award, presented at Stanford University in September 2005, was named a 2009 Benjamin F. Meaker Fellow at the University of Bristol (UK), and won the 2016 Society of Experimental Mechanics D. J. DeMichele Award for contributions to research and education in experimental mechanics. He serves as the Managing Editor of *Structural Health Monitoring: An International Journal*.

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*Sponsored by Professor Kenneth Loh
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