

Mike Todd - - Mike received his B.S.E. (1992), M. S. (1993), and Ph.D. (1996) from Duke University in the Mechanical Engineering and Materials Science Department. From 1996-2003, Mike served as Research Engineer and later Section Head of the Fiber Optic Smart Structures Section of the United States Naval Research Laboratory (NRL) in Washington, D.C. Mike's research programs have involved developing high-performance fiber optic sensing solutions for ship hull monitoring on a composite fast patrol boat, open-water thrust estimates of an RDP propulsor, bridge construction monitoring, and for traffic monitoring of an in-service bridge. Mike has also conducted research in structural dynamics and nonlinear vibrations. Since 1998, Mike has also been developing novel time series techniques using nonlinear waves for damage detection in structures, most recently applying this work to hybrid composite/metal bolted joints. Mike has authored or co-authored 30 refereed journal articles, over 60 conference proceedings, 5 technical reports, and 4 patents or patent disclosures in these research areas. Since 2001, Mike has both mentored students and guest lectured in the Los Alamos Dynamics Summer School on topics in fiber optics and structural health monitoring. In March 2003, Mike joined the faculty of the Structural Engineering Department at the University of California San Diego (UCSD), where he is co-leading efforts to develop a Los Alamos/UCSD Engineering Initiative with a research focus on Damage Prognosis.



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