Professor Arun Shukla

See:
http://mcise.uri.edu/shukla/
http://egr.uri.edu/mcise/meet/ashukla/
https://scholar.google.com/citations?user=p22PCnsAAAAJ&hl=en
http://www.researchgate.net/profile/Arun_Shukla4

Mechanical, Industrial and Systems Engineering
University of Rhode Island, Kingston, Rhode Island

Education:
Ph.D. - University of Maryland, 1981
M.S. - University of Maryland, 1978
B.S. - Indian Institute of Technology, Kanpur, 1976

Research and Teaching Interests:
Experimental and Theoretical Mechanics; Blast Mitigation; Optical Methods; Fracture Mechanics; Composite Materials; Nano Materials; Wave Propagation; Impact Mechanics and Elasticity.

Professional Experience:
Simon Ostrach Professor, Endowed Chair, (2000-Present)
Clark B. Milikan Visiting Professor, CALTECH, (2011); Interim Dean, College of Engineering (2002-2003); Department Chairman, (2000-2009); Distinguished Engineering Professor, (1997-2000)
Professor, URI (1988-Present); Visiting Professor, Texas A&M University, California Institute of Technology and IIT Kanpur, India, sabbatical leave (1994-95); Visiting Professor, Indian Institute of Technology, Kanpur, sabbatical leave (1987-1988)
Design Engineer, Voltas Ltd., India (1976).

Professional Memberships and Activities:
Member Executive Committee, Applied Mechanics Division, ASME (2012-2017); President Society for Experimental Mechanics (2002-2003); President Elect Society for Experimental Mechanics (2001-2002); Vice-President, SEM (2000-2001); Technical Editor, International Journal, Experimental Mechanics (1997-2000); Associate Technical Editor; Experimental Mechanics (1987-1996); Associate Technical Editor International Journal, Lasers and Optics in Engineering (1997-2012); Member Editorial Board, STRAIN (2006-Present); Member Editorial Advisory Board, Key Engineering Materials, Trans Tech Publications (1997-Present); Member Editorial Board, International Journal, Lasers and optics in Engineering, (1993-1996); Member, Executive Board SEM (1994-1996); Chairman, Technical Divisions Council, SEM,(1995-1996); Chairman, Fellow's Committee, SEM, (1996-1997, 2011-2012); Chairman Fracture Mechanics Committee, ASME,1992-1995; Chairman, Fracture and Fatigue Division, SEM, 1992-1993; Member, Honors Committee, SEM 1991-1994, 2003-2006; Member, ASEE, AAM, ASME, ISTAM and SEM.

Awards and Distinctions:
Elected to European Academy of Sciences and Arts, 2011; Fellow of the American Academy of Mechanics, 2001; Fellow of the American Society of Mechanical Engineers, 1996; Fellow of the Society for Experimental Mechanics (SEM), 1993; Murray Medal, SEM 2011; Taylor Award for Technical Excellence in Optical Stress Analysis, SEM 2012; Tatnall Award for Long and Distinguished Service to SEM 2012; College of Engineering Faculty Excellence Award, 2012; University of Rhode Island Outstanding Contribution to Research Award, 2001; Distinguished Alumnus Award, Indian Institute of Technology, Kanpur, 2009; B. J. Lazan Award for Outstanding Technical Contributions to Experimental Mechanics, 2002; Received Educator of the Year – M. M. Frocht Award, 2001;University of Rhode Island Research Achievement Award (2001); Vincent E. and Estelle Murphy Faculty Excellence Award, College of Engineering, URI, 1998; ASTM Outstanding Paper Award J. of Testing and Evaluation, 1998; The University of Rhode Island's Scholarly Excellence Award, 1995; Albert E. Carlotti Faculty Excellence Award, College of Engineering, URI, 1990.

Selected Publications:
LeBlanc, J., Shukla, A., 2010. Dynamic response and damage evolution in composite materials subjected to underwater explosive loading: an experimental and computational study. Composite Structures 92, 2421–2430.

LeBlanc, J., Shukla, A., 2011. Dynamic response of curved composite panels to underwater explosive loading: experimental and computational comparisons. Compos. Struct. Vol 93, No. 11, pp 3072-3081, October 2011

Cardoso, S., Chalivendra, V., Yang, S., & Shukla, A. (2012). Damage detection of rubber toughened nanocomposites in the fracture process zone using carbon nanotubes. Engineering Fracture Mechanics, 96, 380-391.

Gauch, E., LeBlanc, J., & Shukla, A. (2012). Response of preloaded thin composite panels subjected to underwater explosive loading. Computers and Structures, 0, 342-353.

Kumar, P., LeBlanc, J., & Shukla, A. (2012). Effect of plate curvature on blast response of aluminum panels. International Journal of Impact Engineering, 46, 74-85.

Kumar, P., Stargel, D., & Shukla, A. (2013). Effect of plate curvature on blast response of carbon composite panels. Composite Structures, 99, 19-30.

Wang, E., Gardner, N., Gupta, S., & Shukla, A. (2012). Fluid-structure interaction and its effect on the performance of composite structures under air-blast loading. International Journal of Multi-physics, 6, 219-240.