MECHANICAL ENGINEERING
UNIVERSITY of WASHINGTON

Funding opportunities

in dynamics & control at National Science Foundation

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Jan. 30, 3:30 pm | MEB 248

ABSTRACT

The presentation will focus on funding opportunities at NSF for researchers in a general field of dynamics, control and diagnostics. The talk will also cover research opportunities in various ongoing and new crosscutting programs at NSF. Dr. Kelkar will also talk about new solicitations and new core programs that may be of interest to UW faculty. He will present opportunities for young faculty in particular and provide helpful guidelines for writing a successful NSF proposal. The presentation will start with a brief overview of relevant programs, and describe fundamental objectives, expected products, topics of current interest, and the application process.

SPEAKER BIO

Dr. Kelkar currently holds the position of Program Director of Dynamics, Control, and System Diagnostics Program in the Civil, Mechanical, and Manufacturing Innovation Division at National Science Foundation. He also serves as the Program Director for other NSF wide programs such as National Robotics Initiative (NRI) and Emerging Frontiers in Research and Innovation (EFRI). Prior to joining NSF he held the position of the Associate Chair for Research and Technology Transfer in Mechanical Engineering and also the Professor-in-Charge, Industry Research and Entrepreneurship for College of Engineering at Iowa State University. He is a prominent scholar in the area of Dynamic Systems and Control. He received his Ph.D. degree in Mechanical Engineering

from Old Dominion University, Norfolk, Virginia, in 1993 while working as a Research Scientist at NASA Langley Research Center, Hampton, VA. He has contributed to various key NASA projects from Space Station Freedom, Jupiter Icy Moons Orbiter, to Hypersonic vehicles.

Dr. Kelkar is a Fellow of ASME, Associate Fellow of AIAA, and a Senior Member of IEEE. He is a recipient of NSF's prestigious CAREER award in his early faculty career. He continues to lead various leadership activities in ASME and IEEE professional societies. He has held the positions of Associate Editor for key ASME and IEEE journals, served on Program Committees for various IEEE and ASME conferences, and also organized and chaired several technical sessions at these conferences. His research has led to several patents and more than 130 archival publications which include several conference and journal articles, handbook chapters, and research monograph. His research has been in general area of dynamics and control with focus on modeling and control of aerospace systems, control theory, active control of vibrations and noise, and very recently, in alternative energy technologies. Dr. Kelkar is also a co-founder of four different technology start-ups which are very successful in acquiring competitive projects from NSF, NASA, and DoD. Three of these companies have also won awards at the State level and have successfully commercialized technologies developed by Dr. Kelkar. Dr. Kelkar's research and entrepreneurial success has led to several newspaper and magazine articles and interviews on national and local public radio stations and local TV stations.