



Seminar Announcement

Dr. Jordan M. Berg
ENG/CMMI Program Officer
National Science Foundation

Wednesday, March 23, 2016
Green Hall, Room 0120
10:10 AM

The NSF Dynamics, Control, and System Diagnostics Program

Talk: The Dynamics, Control and Systems Diagnostics (DCSD) program supports fundamental research on the analysis, measurement, monitoring and control of dynamic systems. The program promotes innovation in the following areas:

- Modeling: creation of new mathematical frameworks to apply tools of dynamics to physical systems
- Analysis: discovery and exploration of structure in dynamic behavior
- Diagnostics: dynamic methods that infer system properties from observations
- Control: methods that produce desired dynamic behavior

This talk will present funding opportunities in the DCSD program in the context of related programs at NSF. The talk will also discuss features of successful and unsuccessful DCSD proposals, and touch upon perils of the merit review process.

Bio: Jordan M. Berg received the BSE and MSE in Mechanical and Aerospace Engineering from Princeton University in 1981 and 1984. He worked in the commercial space industry before returning to graduate school into 1986. He received the PhD in Mechanical Engineering and Mechanics, and the MS in Mathematics and Computer Science from Drexel University in 1992 followed by postdoctoral appointments at the USAF Wright Laboratory in Dayton, OH, and the Institute for Mathematics and Its Applications in Minneapolis, MN. Since 1996 he has been on the Mechanical Engineering faculty of Texas Tech University. In 2008 he was a Visiting Professor at the University of Ruhuna and the University of Peradeniya in Sri Lanka. His current research interests include nonlinear and geometric control, and the control of nano- and microsystems.

In 2014 he joined the Civil, Mechanical, and Manufacturing Innovation (CMMI) Division of the Engineering (ENG) Directorate of the National Science Foundation as an IPA rotator. He is currently serving as co-Director of the Dynamics, Control, and System Diagnostic (DCSD) program, and as a Program Director for the National Robotics Initiative.

Host: Dr. Jr-Shin Li