Los Alamos Dynamics Summer School Program 2014

Speaker: Douglas Adams, Distinguished Professor and Chair, Civil and Environmental Engineering, Professor of Mechanical Engineering, Vanderbilt University

Bio: Dr. Adams is Distinguished Professor and Chair of Civil and Environmental Engineering at Vanderbilt University and Professor of Mechanical Engineering. His research in structural health monitoring identifies unique signatures that illuminate how materials and machines degrade in order to prevent failure in energy, security, transportation, and manufacturing related applications. He has written 240 technical papers, and authored a textbook on structural health monitoring as well as several book chapters, including recent chapters on damage prognosis of aerospace structures, structural health monitoring of wind turbines, and monitoring of civil infrastructure. Research awards he has received include the Presidential Early Career Award for Scientists and Engineers and Society of Experimental Mechanics DeMichele Award, and he was elected a Fellow of ASME in 2011. He has supervised 54 M.S. and Ph.D. students and 30 undergraduate research assistants, and now advises 6 graduate students. He has been interacting with researchers at Los Alamos National Laboratory since his first visit to the lab in 1999.