



**Industry Advisory Board Meeting
June 15-16, 2009
JW Marriott Resort & Spa – Palm Desert, CA**

SPEAKER

Speaker: John C. Cummings, Ph.D.

Dr. Cummings is a management consultant who retired from Sandia National Laboratories in 2008. John worked at Sandia for 32 years in a wide variety of technical staff and management positions. He was a senior manager in the Advanced Concepts Group (a small think tank) at Sandia. He also served as the Director of a project on process control systems security research for the Institute for Information Infrastructure Protection (I3P). John was on assignment from Sandia in Washington, DC from 2003-2005 as the Director of the R&D program for critical infrastructure protection for the Science and Technology Directorate of the Department of Homeland Security (DHS). While at DHS, John was the Chair of the Infrastructure Subcommittee (of the National Science and Technology Council) and led an interagency effort to create the first National Plan for Research and Development in Support of Critical Infrastructure Protection. Before his position with DHS, he was the Deputy to the Chief Technology Officer at Sandia. His technical work included research in experimental fluid mechanics, combustion, and the use of laser-based instrumentation. Before coming to Sandia, Dr. Cummings was employed by the Engineering Sciences Department at TRW Systems, Inc., where he conducted studies of HF and DF chemical lasers. Dr. Cummings is a member of the Science Advisory Committee of CREATE (the DHS Center for Risk and Economic Analysis of Terrorism Events) at the University of Southern California and the American Physical Society Division of Fluid Dynamics. He has recently served on panels of the Defense Science Board and he was the U.S. representative to the International Atomic Energy Agency working on the mitigation of hydrogen combustion hazards in nuclear power plants. Dr. Cummings received his BS, MS, and PhD (1973) degrees from Caltech. His PhD research involved the development of a cryogenic shock tube and the study of strong shock waves in gaseous and liquid helium. He is the author or coauthor of over 50 technical publications and reports.