

David S. Moore, Laboratory Fellow
Shock and Detonation Physics Group
MS-P952, Los Alamos National Laboratory
Tel: 505-500-7109
Fax: 505-667-6372
Email: moored@lanl.gov

David S. Moore is a Los Alamos Laboratory Fellow, as well as a Fellow of the American Physical Society (Citation: For breakthroughs in the use of nonlinear optical and ultrafast spectroscopies to understand the behavior of molecules under shock compression), the International Union of Pure and Applied Chemistry, and the Alexander von Humboldt organization. His work concentrates on revolutionary approaches to the study of shocked materials and the detection of explosives, for both defense program and global security applications. He utilizes coherent molecular spectroscopies, benchtop laser methods, and unique diagnostics to obtain results pivotal to the molecular level understanding of material behavior at extreme conditions. He and his coworkers are solving persistent detection needs, including selectivity in trace analysis and wide-area stand-off detection of bulk explosives. Moore received a B.S. in Chemistry (University of Utah, 1974) and a Ph.D. in Physical Chemistry (University of Wisconsin, 1980). He was a Los Alamos National Laboratory Director Funded Postdoctoral Fellow (1980-1981) and an Alexander von Humboldt Fellow (Essen 1993-94). He is currently a Research Scientist in the Shock and Detonation Physics Group at Los Alamos, and is author of more than 200 publications and seven book chapters, editor of the Wiley Handbook of Spectroscopy, and the holder of five patents.

β