Jeffrey D. Richman – Biographical Sketch

Jeffrey Richman is Professor of Physics at the University of California, Santa Barbara (UCSB). His research is in the field of experimental elementary particle physics (high energy physics). Richman received his Ph.D. from Caltech in 1985 and his B.S. from Yale *summa cum laude* in 1979. He was a postdoctoral fellow at CERN and at the Lawrence Berkeley National Laboratory. He has held visiting positions at the Stanford Linear Accelerator Center and at INFN Pisa.

Richman is a Fellow of the American Physical Society and is a Fellow of the American Association for the Advancement of Science (AAAS). He has been a Department of Energy Outstanding Junior Investigator and a Sloan Foundation Research Fellow. He is principal investigator for the UCSB high energy physics group.

Richman has served on the Board of Directors of the Fermi Research Alliance, which manages Fermilab. He has also served on several advisory committees in high energy physics, including the Fermilab Physics Advisory Committee (PAC), the SLAC Scientific Policy Committee (SPC), the SLAC Experimental Program Advisory Committee (EPAC), the LBNL Director's Review Committee for the Physics Division, and the Department of Energy's review committee for the Proton-Based Research Program at the National Laboratories. Richman served as a panelist for the National Academies Committee on the Integrity of Research Data.

Richman currently works on the CMS experiment at the Large Hadron Collider (LHC) at CERN in Geneva. The goal of the experiment is to search for new physics at the TeV energy scale. Richman has served as convener of the CMS Supersymmetry Physics Analysis Group, which is searching for particles that could mirror the known standard model particles and help to explain dark matter. He has also served on the CMS Publications Board, was co-chair of the Exotica Physics Analysis Group Publications Board, and is a member of the CMS Collaboration Board Advisory Group. He and the members of his group have worked on many aspects of CMS, including muon system readout electronics, High Level Trigger software for muon reconstruction, and particle tracking software.

Richman has also worked for many years on measurements of heavy-quark physics and matter-antimatter asymmetries in the BaBar (SLAC) and CLEO (Cornell) experiments. He has served as the BaBar Physics Coordinator and Deputy Physics Coordinator. He has worked on high precision pariticle tracking detectors, including the BaBar silicon vertex tracker and the SLD CCD vertex detector.

Richman has a strong interest in teaching and has taught particle physics at advanced schools in the U.S., China, Europe, and Mexico, most recently at the Scottish Universities Summer School on Particle Physics. He has taught physics at all levels at UCSB, including elementary particle physics, quantum mechanics, thermodynamics and statistical mechanics, classical mechanics, electromagnetism, advanced laboratory, and analog and digital electronics.