

22nd Annual Old Dominion Faculty Research Achievement Award

Professor Rocco Schiavilla ***Department of Physics***



Dr. Rocco Schiavilla is a professor of physics at Old Dominion University and senior staff scientist at the Thomas Jefferson National Accelerator Facility (JLab). During Dr. Schiavilla's 13 year research career at ODU, he has earned an international reputation as one of the leading nuclear theorists of our time. He has published over 100 articles in the most respected refereed journals in his field and in published proceedings. These publications have been cited more than 2300 times, which reflects his groundbreaking contributions in a variety of areas in his discipline. Dr. Schiavilla's theoretical insights inspired experiments conducted at JLab that led to a new understanding of the nucleus of the atom. His model of the interaction between two nucleons is so widely adopted that it is referred to as the "standard nuclear model". His most recent research to elucidate nuclear reactions in the sun has improved our understanding of neutrino oscillations and has resulted in a revision of the Standard Solar Model. He has demonstrated leadership not only of research project teams, but also as Chair of the Few-Body Topical Group of the American Physical Society, as a principal organizer of the Electron-Nucleus Scattering Workshop and other conferences, and as Interim Director of the JLab's Theory Group from 2002-03. In 2002 the American Physical Society elected him a Fellow "for advancing the theory of nuclei as systems of nucleons bound together by two- and three-body forces, and particularly for studies of their electroweak interaction." His ODU colleagues selected Dr. Schiavilla to receive the 2006 Faculty Research Award, stating that he has "clearly been recognized by his peers as a world leader in his field."