

JOHN W. RUDNICKI earned his Bachelor's (1973), Master's (1974) and PhD (1977) degrees at Brown University. Following a Research Fellowship in Geophysics at Caltech, he was Assistant Professor in the Department of Theoretical and Applied Mechanics at the University of Illinois at Urbana-Champaign. In 1981, joined the faculty at Northwestern University where he is now Professor in the Department of Civil and Environmental Engineering and the Department of Mechanical Engineering. His research has been in the general area of inelastic behavior and failure of solids, particularly, geomaterials. He has been especially interested in the development of localized deformation and in the effects of coupling between deformation and fluid diffusion in connection with applications to the mechanics of earthquakes, energy storage and recovery, disposal of toxic wastes and geological sequestration of CO₂.

He is a Fellow of the American Society of Mechanical Engineers (ASME) and in 2008, he was awarded the Brown Engineering Alumni Medal. In 2006, he received the Maurice A. Biot Medal from Engineering Mechanics Division of the American Society of Civil Engineers "for his fundamental contributions to the mechanics of porous media and its applications to rock mechanics and geophysics" and in 2011, the Daniel C. Drucker Award from the ASME "For providing a new fundamental understanding of deformation instabilities in brittle rocks and granular media, including their interactions with pore fluids, with applications to fault instability, quantification of energy radiation from earthquakes and environment- and resource-related geomechanics".

He has held a variety of editorial and committee assignments, including Chairman of the Geosciences Council for the Dept. of Energy Basic Energy Sciences, a member of the Advisory Council of the Southern California Earthquake Center, and is currently a member of Editorial Advisory Board of the *International Journal for Numerical and Analytical Methods in Geomechanics*. He teaches courses at both the undergraduate and graduate levels. He recently developed and teaches a popular undergraduate course on the Mechanics of Sports. He was undergraduate Advisor of the Year in the McCormick School of Engineering and Applied Science in 2009 and on the Associated Student Government Honor Roll for Faculty and Administrators in 2010.