

Ken Sudduth is a Research Agricultural Engineer with the Agricultural Research Service of the US Department of Agriculture in Columbia, Missouri. He leads an interdisciplinary team of engineers and soil scientists conducting research in the field of precision agriculture. He is also an Adjunct Professor of Biological Engineering at the University of Missouri where he was the founding Director of the Missouri Precision Agriculture Center from 1997 to 2001.

Sudduth has worked in agricultural engineering research and development for over 30 years, in both the private and public sectors. He is nationally and internationally recognized for his precision agriculture research and leadership, especially in soil property sensing and measurement and interpretation of crop and soil spatial variability. Specifically, he developed improved approaches and novel sensor systems for measuring soil carbon and moisture content based on near-infrared diffuse reflectance spectroscopy. He was one of the first to apply soil electrical conductivity measurements to estimate soil and crop productivity variations within fields. His team developed the first combine-mounted corn population sensor and also created novel high-speed data collection software that allowed mapping not only population but also the spacing between individual corn plants. Sudduth also led the development of "Yield Editor," an innovative, user-friendly software product that facilitates the removal of erroneous data from yield maps.

His research is documented in 288 technical publications, including 100 peer-reviewed journal articles and one patent. He is regularly invited to give international presentations, and has hosted and mentored 19 international scientists. In 2006 he was designated as an Honorary Scientist of the Rural Development Administration of the Republic of Korea.

Sudduth received his BS and MS degrees from the University of Missouri and his PhD from the University of Illinois, all in Agricultural Engineering. He has held a number of offices in the American Society of Agricultural and Biological Engineers (ASABE) and was elected ASABE fellow in 2007. He is on the editorial boards of the ASABE journals (*Transactions of the ASABE and Applied Engineering in Agriculture*), *Precision Agriculture*, and *Computers and Electronics in Agriculture*.

