



EDWARD M. BARNES, senior director, agricultural and environmental research division, Cotton Incorporated, Cary, North Carolina is being honored for advancing the cotton industry and agricultural and biological engineering. While at Cotton Incorporated, Barnes has helped to remove barriers for cotton producers to adopt precision technologies by cotton producers and

has worked to help farmers adopt better water management tools. He has led efforts in the modernization of cotton harvest systems and helps facilitate the use of radio-frequency identification technologies for tracking modules from the field to the gin. Barnes' career has focused on simplifying precise management for site-specific agricultural producers leading to improved sustainability, minimizing the costs to producers, as well as minimizing negative environmental impact.

In his efforts to advance adoption of precision agriculture by cotton farmers, Barnes developed a national interdisciplinary precision cotton working group which coordinates research and facilitates information sharing within the cotton industry. This group has developed protocols for use of precision agriculture technologies for on-farm testing and is responsible for several applications of sensors to control input rates. This work has also helped facilitate the use of sensors in cotton breeding programs.

Barnes, a 30 year member of ASABE, has extensive involvement in ASABE committees. He was a leader in the Applied Science and Engineering, Engineering for Sustainability committee, on the committee on precision agriculture, and has also served as a member in the Cotton Engineering technical community. He is currently a trustee on the ASABE Foundation Board, where he has provided leadership and planning assistance for the annual Gale Holloway Golf Outing during the Annual International Meeting. Barnes has also served on the Science Advisory Board, the Southeast Climate Extension Advisory Board, and is a member of the Soil Science Society of America, Agronomy Society of America, and the National Cotton Ginning Association.

Barnes has authored or coauthored more than 100 peer-reviewed publications, technical proceedings papers, and book chapters. He has received an ASABE Superior Paper award, several Blue Ribbon Educational Aids awards, the Cotton Incorporated Achievement award, and several Certificates of Merit from the USDA for work in precision agriculture. Barnes was the 2014 recipient of the ASABE Mayfield Cotton Engineer of the Year award.