



# Honoring the Newly Elected

**T**welve new ASABE Fellows were recognized at the virtual Annual International Meeting in July 2020. *Resource* is proud to highlight these Fellows. In this issue, we finish highlighting this incredible group of 2020 Fellows.

Fellows must have a minimum of 20 years of active practice in, or related to, the profession of engineering, the teaching of engineering, or the teaching of an engineering-related curriculum. The designation Fellow has honorary status, to which members may be elected but may not apply.



**Patricia K. Smith**, Professor and Associate Department Head for Academic Programs, Texas A&M University, College Station, is recognized for her excellence in engineering instruction and her development of techniques for evaluating uncertainty in hydrologic modeling.

Smith's career has been devoted to the education of young engineers and the development of a comprehensive water quality research program. She has taught a variety of undergraduate and graduate classes and has consistently been rated very highly in student evaluations. Smith employs a flipped classroom model, which structures her classes in a way that provides students with tools to actively engage in their own current and lifelong learning. Throughout her career in education, Smith has made significant efforts to reduce the hurdles that discourage students and faculty from non-traditional backgrounds from pursuing STEM careers. In addition to her teaching, Smith has made significant impacts in hydrologic and water quality research. Her research programs have used stochastic techniques in conjunction with simulation models to address a variety of hydrological and water quality problems in Texas. Smith and her colleagues have also used stochastic techniques to quantify the uncertainty in both measured and predicted hydrologic and water quality variabilities.

*Pictured above*, Patti and her husband Jason.

As the ASABE Constitution states, Fellows are “of unusual professional distinction, with outstanding and extraordinary qualifications and experience in, or related to, the field of agricultural, food, or biological engineering.” Election to Fellow is one of the highest distinctions an ASABE member can achieve, and *Resource* looks forward to acquainting you with more of ASABE's best and brightest.



**Alvin R. Womac, P.E.**, Professor of Biosystems Engineering, University of Tennessee, Knoxville, is honored for his discoveries and developments in equipment systems for spray application technology and biomass logistics systems.

Womac is a world-recognized leader in agricultural spraying and biomass logistics. He has made significant contributions to research in sprayer droplet sizing, nozzle classification, boom sprayer field performance, and aerial spray applications. Womac led a research team in spray equipment technology, developing novel equipment and monitoring techniques, and resulting in the development of a unique variable-orifice nozzle. Womac was also part of research teams that investigated the safe application of pesticide sprays for minimal environmental impact and maximum targeting of product. Womac has conducted research in biomass, looking for efficient biomass processing and logistics systems. In his current role as a professor of biosystems engineering, Womac teaches courses in mechanical systems engineering, agricultural and construction equipment, and has team-taught a unique biosystems engineering practicum course. Womac is also involved in coordinating ABET self-assessment processes.

*Pictured above*, Womac Tennessee Thanksgiving—Al and Eleanore Womac (seated on trailer fender) join with immediate family and Eleanore's family to continue their Thanksgiving get-together tradition.