



Ying Chen, PE, professor, University of Manitoba, is being honored for outstanding contributions to teaching and research in agricultural machinery, and services to the society.

Chen is professor and associate head of the graduate program in the department of biosystems engineering at the University of Manitoba. There, she teaches courses in structural design in machines, management of byproducts from animal production, material incorporations into the soil, biological system behavior, modeling, and simulation. Chen also conducts research in agricultural machinery, soil dynamics, conservation agriculture, discrete element modeling, plant fibers, and land applications of manure. She has developed a strong research program in agricultural machinery and soil dynamics, established the Machinery and Soil Dynamic Lab and has trained over 40 graduate students. She is an active role model and mentor for many students and she provides a supportive and also challenging and engaging learning environment. Her research team is at the leading edge of discrete element modeling in soil dynamics.

As a principal investigator, she has received numerous research grants from the National Science Engineering Research Council of Canada. Because of her expertise in agricultural machinery and her enthusiasm for working with industry partners, Chen is highly regarded by local industries and farmers. She has worked with several local agricultural equipment manufacturers in developing and improving tillage and seeding equipment. She has introduced novel methods for improving soil-machine dynamic systems, including her pioneering use of numerical modeling in the agricultural engineering field.

A 33-year member of ASABE, Chen is a frequent contributor on a number of ASABE committees. She is a longstanding member of the Machinery Systems Soil-Plant-Machine Dynamics committee and is currently the past president of the Canadian Society for Bioengineering (CSBE-SCGAB). Chen also maintains memberships with the CSBE-SCGAB, and the Association of Overseas Chinese Agricultural, Biological, and Food Engineers.

Chen is author or coauthor of 120 peer-reviewed articles, more than 100 conference proceeding papers, and other publications. Throughout her career, Chen has received a number of awards including being inducted as a Fellow of CSBE-SCGAB in 2017. She also received the Glenn Downing award from CSBE-SCGAB. She has received a number of ASABE publication awards for her work as a reviewer and as an author. She also received a Faculty of Engineering award for Excellence in Engineering Education from the University of Manitoba.