

2018 ASABE Fellow



Ronaldo G. Maghirang, associate dean for research and graduate programs and professor of biological and agricultural engineering, College of Engineering, Kansas State University (KSU), Manhattan, Kansas, is being honored for his outstanding global leadership and contributions to the advancement of animal and facility systems through teaching, research, and service.

Maghirang's research has focused on low-cost air pollution measurement; measurement, monitoring, modeling, and control of air emissions from agricultural operations and off-road activities; measurement, control, and modeling of indoor air quality in agricultural buildings; particle technology; environmental applications of nanotechnology; and improved grain handling and storage. Much of his research has involved extensive collaboration with scientists and engineers from KSU, US Department of Agriculture Agricultural Research Service, other educational institutions, and industry. Major accomplishments of his research group include characterization and measurement of air emissions from open lot cattle feedlots; development and evaluation of best management practices for controlling dust emissions from open cattle feedlots; and development of packing factors for various grains.

A 25-year member of ASABE, Maghirang has contributed to the professional community as editor, associate editor, and program chair for the Plant, Animal, & Facility Systems (PAFS) community and chair of several committees, including the ASABE Refereed Publications committee and PAFS technical committees. He also was on several panels, including the EPA Science Advisory Board Animal Feeding Operation Emission Review Panel, the CDC Special Emphasis Panel/Scientific Review Group for regional centers on agricultural safety and health, the board of directors at Kansas State University Research Foundation, and the advisory board of the National Gas Machinery Laboratory.

Maghirang has authored or coauthored more than 190 refereed journal articles and other technical publications. Throughout his career, Maghirang has been recognized for his research, teaching, advising, and service. He received the KSU Presidential Award for Excellence in Undergraduate Teaching and the Outstanding University Alumni Award for biological and agricultural engineering from the University of the Philippines Los Baños. He also received the Robert R. and Lila L. Snell Excellence in Undergraduate Teaching award, James L. Hollis award for Excellence in Undergraduate Teaching, Myers-Alford Memorial Teaching award, Clair A. Mauch Steel Ring Advisor award, and Frankenhoff Outstanding Research award, all from the College of Engineering at KSU. He has received numerous ASABE paper awards throughout his membership.