



## Rick Stowell

**Rick Stowell, PE**, is the 2021 recipient of the G. B. Gunlogson Countryside Engineering Award for his leads state, national, and international initiatives benefiting in-barn and community environments associated with animal housing systems.

Stowell is a professor and extension specialist in animal environment at the University of Nebraska-Lincoln. His primary appointment is within biological systems engineering and he has a joint appointment in animal science. His outreach and research interests focus on improving air quality in and around livestock and poultry facilities, mitigating thermal stress in livestock and poultry, and facility design for optimal environmental management. He teaches undergraduate courses in the mechanized systems management program.

Collaboration with his peers in a four-state project developed a hands-on educational workshop entitled 'Managing Your Unseen Employee: The Ventilation System' that has influenced several thousand producers in the western Corn Belt and has been used as a model for delivering ventilation workshops. He provided leadership to sustain and grow the Livestock & Poultry Environmental Learning Community, which facilitates networking of professionals in environmental management throughout the US.

Stowell has conducted recognized programs on reducing the negative impacts of animal production on rural air quality through improved planning of livestock and poultry facilities and utilization of proven control technologies, including: leading

the Air Quality Education in Animal Agriculture project, which directly enhanced the technical capacity and skills of over 300 professionals. He has also expanded use of the National Air Quality Site Assessment Tool. He led the Animal Agriculture in a Changing Climate national extension project and facilitated extension activity for implementing the Swine Environmental Footprint Calculator.

A 27-year member of ASABE, Stowell has been actively engaged in planning the International Livestock Environment Symposium - including Symposiums held in China, Brazil and Spain. His efforts here earned him an ASABE Presidential citation.

Stowell contributes early valuable extension mentoring in his career as a benefit to his professional growth in delivering extension programs focused on dairy facility design and expansion, and led to him receiving two ASABE Educational Aids Blue Ribbon Awards while a graduate student.

Stowell has published 12 peer-reviewed journal articles, 26 peer-reviewed extension publications, 2 book chapters, 87 conference proceedings papers, and numerous additional extension resources in written and audio-video formats.