



Litter Nutrients and Management in Poultry Systems

June 19, 2020

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

As poultry genetics, management practices and industries evolve, so do manure and litter characteristics. Litter-based poultry systems have an added layer of complexity with the amount and characteristics dependent on both excreta and the amount of bedding material. This webinar dives into changes in broiler litter characteristics based on changes in production practices and litter management. The webinar will also share ongoing work to predict nutrient availability for poultry litter during land application, optimizing crop growth and minimizing environmental losses. Finally, the webinar will share past and present experiences with a combination slatted floor and bedding-based system for turkeys. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) will be submitted.*



John P. Chastain has been a faculty member in the Department of Agricultural and Biological Engineering, at Clemson University since August 1995 where he has extension and research responsibilities in the area of animal manure management and production systems. His areas of interest include: animal manure collection, treatment and storage systems, land application of manure, alternative uses of animal manure, odor control from animal production units, control of indoor environment to optimize productivity and protect worker health, and design of animal production facilities. He holds a BSAE degree from the University of Georgia, and his MSAE and Ph.D. were earned at the University of Kentucky. Email: jchstn@clemson.edu



Dr. Rishi Prasad is an Assistant professor and Animal Systems Environmental Specialist in the Departments of Crop, Soil and Environmental Sciences and Animal Science at the Auburn University. Dr. Prasad obtained his PhD degree from University of Florida and worked as research associate in USDA-ARS located at Penn State University before coming to Auburn. His research expertise also include using crop and livestock models to develop best management practices (BMPs) for nutrients, mainly nitrogen (N) and phosphorus (P). His current research and extension activities are focused on understanding the nutrient release patterns from animal manure, developing methods to remove P from poultry litter, understanding P retention and loss mechanisms from weathered soils, and development of BMPs to reduce N and P losses to the environment from crop-livestock systems. Email: rzp0050@auburn.edu

Kevin Janni is a professor and Extension engineer in the Department of Bioproducts and Biosystems Engineering at the University of Minnesota. He joined the department faculty in 1980. He works closely with both the Dairy and Poultry Extension teams. He has written extensively on ventilation, air quality, heat stress, odors, biofilters and biosecurity associated with animal agriculture. He teaches an air quality and pollution control engineering course. Email: kjanni@umn.edu



How do I participate?

On the day of the webinar, go to lpec.org/live-webinar-information/ to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: lpec.org/how-do-i-participate-in-a-webcast/.

Where do I find more information?

- Animal Manure, Chapter 3. Common Animal Production Systems and Manure Storage Methods
<https://access.onlinelibrary.wiley.com/doi/10.2134/asaspecpub67.c3>
- Animal Manure, Chapter 5. Nutrient Characteristics of Poultry Manure and Litter
<https://access.onlinelibrary.wiley.com/doi/10.2134/asaspecpub67.c5>

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