

## Iowa Swine Day Pre-conference Symposium

Wednesday, July 24, 2024, 1:00 PM – 5:00 PM, CDT  
Scheman Building, ISU Campus, Rm 275, Ames, IA

### Soybean Meal 360<sup>0</sup> — Expanding our horizons through discoveries and field-proven feeding strategies for improving pork production.

**Symposium sponsor:** U.S. Soy

**Symposium moderator:** David Holzgraefe, PhD, PAS, Holzgraefe Innovative Services, LLC, Holland, MI

---

**12:30 PM CDT Registration opens**

**1:00 PM Welcome and introductions**

**1:15 PM U.S. soybean processing industry – the dynamics of change**

*Gordon Denny, General Manager, Gordon Denny, LLC, Thornton, CO*

- U.S. soybean processing capacity will increase by ~25% by 2026
- Soybean meal processing – oil vs. meal

**1:40 PM Quantifying the value of increased soybean meal crude protein and energy in swine and poultry diets**

*Micah Pope, MS, Senior Consultant, Centrec Consulting Group, Savoy, IL*

- As soybean meal protein and energy increase, its value increases
- For swine diets, \$9–\$14/ton for each 1% increase in CP; for poultry diets \$11–\$19/ton for each 1% increase in CP (ranges reflect ingredient price variation during the marketing years 2016-2017 through 2022-2023)

**2:05 PM Soybean meal net energy and productive energy are higher in commercial pork production systems**

*Aaron Gaines, PhD, Managing Partner, Ani-Tek, LLC, Shelbina, MO and Hans Stein, PhD, Professor, University of Illinois, Champaign, IL*

- Soybean meal net energy value (NE) is equal to or 10% greater than 2012 NRC corn value in a commercial environment
- Higher net energy value under commercial conditions is likely related to higher prevalence of immune response or other stressors

**2:30 PM Break**

**2:45 PM Soybean meal functional compounds – the science behind observations of improved pig health and viability**

*Amy Petry, PhD, Assistant Professor, University of Missouri, Columbia, MO*

- Primary functional compounds of soybean meal
- Complementary nutrition benefits of soybean meal in swine diets

Version: 4/29/2024

<https://www.ipic.iastate.edu/iowaswineday.html>

© 2024 United Soybean Board U.S. Soy is a federally registered trademark of the United Soybean Board and may not be used by third parties without explicit permission. FULLY FUNDED BY THE NATIONAL SOYBEAN CHECKOFF

**3:10 PM**

**Pig growth impaired with soybean meal displacement**

*Eric van Heugten, PhD, Professor, North Carolina State University, Raleigh, NC*

- Displacement of SBM from 31% to 6% in growing pig diets compromised gain by 3.2 kg and F:G ratio by 0.17 units
- Displacement of SBM from 21% to 0% in finishing pig diets compromised gain by 3.6 kg and F:G ratio by 0.18 units

**3:35 PM**

**Strategic use of soybean meal to prevent carcass weight dip during summer**

*David Rosero, PhD, Assistant Professor, Iowa State University, Ames, IA and R. Dean Boyd, Consultant, Animal Nutrition Research LLC*

- Carcass weight reduction during summer months is the result of exposing pigs to heat stress conditions and the displacement of soybean meal with feed intake-reducing ingredients
- Elevating the dietary level of soybean meal in commercial finish diets increased carcass weights by 2.3-3.2 kg during summer months

**4:00 PM**

**What does all this mean for swine diet formulations?**

*Bart Borg, PhD, Vice President of Feed and Nutrition, Passel Farms, Ames, IA*

- Recent findings related to soybean meal will impact diet formulations, with new minimum and maximum restrictions on formulas
- The formulation “process” will need to include post-formulation modeling for a clear economic impact of dietary soybean meal

**4:25 PM**

**Q&A and panel discussion**

*R. Dean Boyd, PhD, Consultant, Animal Nutrition Research, LLC, Alvaton, KY*

**4:55 PM**

**Closing, housekeeping**

Version: 4/29/2024

<https://www.ipic.iastate.edu/iowaswineday.html>

© 2024 United Soybean Board U.S. Soy is a federally registered trademark of the United Soybean Board and may not be used by third parties without explicit permission. FULLY FUNDED BY THE NATIONAL SOYBEAN CHECKOFF