



NCERA-57 Symposium - Tools for Reproductive Management

May 21, 2024

University of Nebraska-Lincoln, Department of Animal Science
Animal Science Complex, 3940 Fair St, Lincoln, NE 68503-0908

Room B101

(Enter on south side of building through shoe disinfection mats)

Tuesday, May 21st

- 12:00 pm Lunch (free of charge)
- 12:50 pm Welcome – Dr. Deborah VanOverbeke, Department Head of Animal Science
- 1:00 pm *Review of Offspring Survival* – Dr. Jeff Weigert, Texas A&M
Offspring survival starts at parturition and should influence pig care beyond weaning. Dr. Weigert reviews the science behind best practices for pig care in lactation and the impact on survival.
- 1:45 pm *New Knowledge on Seasonality, Heat Stress and Semen Production in the Boar* – Dr. John Parrish, University of Wisconsin-Madison.
John Parrish’s research has focused on male physiology with an emphasis on semen production and how heat stress negatively impacts spermatogenesis and semen quality in boars. Novel approaches to mitigate heat stress impacts have been examined and demonstrated improved spermatogenesis, sperm production and semen quality in normal and heat stressed boars, thus leading to enhancement of pig productivity.
- 2:30 pm *Thomas Livestock, 24/7 Pig Care* – Thomas Livestock
Thomas Livestock is known for their focus on pig and people care. Their 24/7 staffing program for managing piglets in lactation is considered a gold standard of care. Experts from Thomas Livestock will give insight into their operations and the impact this program has on pig survival and production success.
- 3:15 pm Break
- 3:30 pm *Video Monitoring Pig Care* – Dr. Benny Mote, University of Nebraska-Lincoln
Dr. Benny Mote's research involves the development of the NUtrack Livestock Monitoring System, a computer vision-based technology designed to identify and track the activities of group-housed pigs. The system provides data about daily activities such as time spent standing, sitting, laying, at the feeder, and at the drinker as well as distance traveled, velocity when traveling, and rotations when in motion. Utilization and analysis of these activities are being explored to identify complex behaviors like symptoms of illness or injury as well as production traits for longevity, reproduction, and efficiency. This technology aims to improve the health, welfare, and production efficiency of livestock.

4:15 pm *HotHog Application* – Dr. Jay Johnson, USDA ARS

The HotHog app, developed as a decision support tool, provides real-time predictions of thermal comfort and stress for swine, offering practical mitigation options tailored to specific thermal conditions. It is designed to support effective herd management and welfare practices, with features including hourly and daily forecasts, temperature alerts, and translations in Spanish, Portuguese, and Chinese. Available at no cost on iOS and Android platforms, HotHog is a practical and accessible solution for producers to safeguard swine welfare effectively in the barn and during transport.

5:00 pm Adjourn

Parking Information: Parking will be in the adjacent parking lot located on the southeast side of the Animal Science Building (See map on next page). Parking passes will be provided.

Hotel Information: Reservations can be made at Comfort Suites East Lincoln - Mall Area 331 N. Cotner Blvd., Lincoln, NE 68505 - (402) 817-2456 (\$85 per night – ask for University of Nebraska rate)

Contact Information: Dr. Brett White
Email - bwhite2@unl.edu
Office Phone - (402) 472-6438
Cell Phone – (402) 304-0265

Registration Information: We look forward to your attendance at this symposium. You may register (free of charge) as an individual or as a group. The link to register is <https://form.jotform.com/241224797684063>. You may also scan the QR code below to register as well.





UNIVERSITY OF NEBRASKA-LINCOLN
EAST CAMPUS

Provided by University Communications.
Campus Maps (winter/ August 2016)



Directions to City Campus:
Travel south on 33rd Street to Vine Street. Turn right (west) and travel to 16th

A-K

- 8 Agricultural Communications Bldg. (ACB)
- 7 Agricultural Hall (AGH)
- 59 Agronomy & Horticulture/Forestry Shops (AHS)
- 62 Agronomy & Horticulture Greenhouse 1 (AHG1)
- 67 Agronomy & Horticulture Greenhouse 2 (AHG2)
- 68 Agronomy & Horticulture Greenhouse 3 (AHG3)
- 69 Agronomy & Horticulture Greenhouse 4 (AHG4)
- 56 Agronomy & Horticulture Physiology Bldg. (AHPH)
- 45 Animal Science Complex (ANSC)
- 43 Baker Hall (MBH)
- 14 **Barkley Memorial Center** (BKC)
- 4 Bio-Fiber Development Laboratory (BDL)
- 16 Burr Hall (BRH)
- 21 Chase Hall (CHA)
- 18 Child Development Laboratory, Staples (CDL)
- 13 **College of Dentistry** (CDEnt)
- 35 Conservation & Survey Annex Bldg. (CSA)
- 36 **C.V. Thompson Library** (CTh)

Dairy Store

- 10 **East Campus Visitor Center**
- 22 Entomology Hall (ENTD)
- 63 Entomology Greenhouse 2 (EGR2)
- 64 Entomology Greenhouse 3 (EGR3)
- 54 Environmental Health & Safety
- 5 Family Resource Center (FRC)
- 6 Field Hall (FRH)
- 9 Filley Hall (FYH)
- 49 Flemming Fields Annex Bldg. (FFAB)
- 10 Food Industry Complex (FOOD)
- 33 Forage Research Laboratory (FORL)
- 24 Forestry Hall (FORS)
- 2 Hardin Hall (HARH)
- 19 Home Economics Bldg. (HECO)
- 32 Insectary Bldg. (INSB)
- 29 Keim Hall (KEIM)
- 25 Kieselbach Crops Research Laboratory (KCR)
- I-Q Landscape Services (LSO)

Larsen Tractor Museum (LTM)

- 20 Levertown Hall (LEV)
- 52 Library Depository/Retrieval Facility (LDR)
- 44 Loeffel Meat Laboratory (LML)
- 3 Lone Hall (LRH)
- 35 McColium Hall (LAW)
- 47 Morrison Center (MOLR)
- 27 Miller Hall (MILH)
- 42 Mussell Hall (MUSH)
- 41 Nat'l Agroforestry Center (NAC)
- 65 Nat'l Agroforestry Center Storage Bldg. (NAST)
- 23 **Nebraska East Union** (NEU)
- 15 Nebraska Educational Telecomm. - NET/PPS
- 51 Nebraska Game & Parks
- 66 Neb. Statewide Arboretum Greenhouse (NSAG)
- 50 Pershing Maintenance (PM)
- 28 Plant Pathology Greenhouse (PPG)
- 70 Plant Sciences Hall (PLSH)
- 31 Plant Science Teaching Greenhouse (PSTG)
- 58 Poultry Bldg. F (PDF)

Poultry Bldg. H & I (POHI)

- 1 **Quilt House** (QH)
- 17 **Recreation & Wellness Center** (RWC)
- 19 **Robert Hillestad Gallery**
- 34 Schmid Law Library
- 39 Service Bldg. (SVC)
- 37 Splinter Lab & Tractor Test Laboratory
- 18 Staples Child Development Laboratory (GDL)
- 61 Stewart Seed Laboratory (SSL)
- 30 Teaching Greenhouse East (TGE)
- 30 Teaching Greenhouse West (TGW)
- 15 Terry M. Carpenter Telecomm. Center (TELC)
- 55 USDA Physiology Bldg. (USPB)
- 40 Utility Plant (EUP)
- 12 Varner Hall (VARH)
- 47 Vet. Diagnostic Center (VDC)
- 46 Vet. Medicine & Biomedical Sciences Bldg. (VBS)
- 54 Warehouse 1 (W1)
- 60 Warehouse 2 (W2)

Water Sciences Laboratory (WL)

- 35 Welpton Courtroom Bldg. (WELC)
- Colonial Terrace Apartments (CTA)
33rd & Starr Streets - one block south and east of 33rd & Holdrege St.

Visitor/Guest Parking

There are a number of areas where visitors may park indicated in pink on the map. For complete information, please visit parking.unl.edu/visitors. All UNL parking facilities, except metered areas and time-controlled zones, require a valid University of Nebraska parking permit 24 hours a day, 7 days a week. Most parking on the UNL campus is designated for faculty and staff, or residential and commuter students. These individuals pay monthly rates for the privilege of parking on campus and they are issued permits that allow them to park in designated lots.



Please use a QR code or mobile scanner app to view our maps online.

HOW TO READ THE CAMPUS MAPS:

If you know the name of the building, look for it in the alphabetical list. If you're looking for the building by number, they are read from left to right (bottom to top and divided by color rows for easy finding).

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