

The 25th Annual Konza Prairie LTER Workshop
Thursday, June 2, 2016
Konza Prairie Biological Station – Cortelyou Lecture Hall

Morning Oral Presentations

- 8:40 John Blair – Welcome and overview of the Konza Prairie LTER program.
- 9:00 Jesse Nippert (KSU) – Leaf Area Index predicts canopy N & P in annually-burned tallgrass prairie.
- 9:12 Zak Ratajczak (UV) – Interactions between grassland diversity and resilience to changes in disturbance.
- 9:24 Brett Sandercock (KSU) – Benefits of patch-burn grazing for Greater Prairie-Chickens.
- 9:36 Bram Verheijen (KSU) – Effects of habitat heterogeneity on grassland songbird fecundity in an experimental landscape.
- 9:48 Ellen Welti (KSU) – Changes in grassland plant-grasshopper (Acrididae) network structure with fire and grazing.
- 10:00 Jesus Gomez (KSU) – Bison grazing in response to forage quality modulates local spider assemblages.
- 10:12 Sophia Bonjour (SIU) – Influences of fishes on macroinvertebrate and algal colonization of prairie stream pool mesocosms.
- 10:24 Bryan Frennete (KSU) – Physiology and ecology of prairie stream fishes in relation to temperature.
- 10:36 Jill Haukos (KSU) – K-Through-Gray: Overview of the environmental education program at Konza Prairie.

Poster Session 11:00-12:00

Afternoon Oral Presentations

- 1:00 Gwen Macpherson (KU) – Dynamics of solutes and stream discharge, in a chemical weathering context - Part 1.
- 1:12 Pam Sullivan (KU) – Dynamics of solutes and stream discharge, in a chemical weathering context - Part 2.
- 1:24 Kelly Logan (KU) – Diagnosing land-atmosphere coupling strength over grasslands.
- 1:36 Melinda Smith (CSU) – Ecosystem response to repeated drought events: the role of legacy effects.
- 1:48 Meghan Avolio (SESYNC) – Chronic eutrophication does not change plant community resistance and resilience to drought.
- 2:00 Loretta Johnson (KSU) – Ecology meets evolution in grasslands: the role of dominant grass intraspecific variation in grassland function.
- 2:12 Kent Connell (KSU) – Staying true to your roots: Testing the applicability of the home-field advantage hypothesis to the rhizosphere priming effect.
- 2:24 Laura Mino (OSU) – Soil alterations following woody species encroachment in tallgrass prairie.

- 2:36 Lydia Zeglin (KSU) – Burning effects on long term response and resilience to N addition - linked below and above ground responses.
- 2:48 Luci Wilson (OSU) – *Bothriochloa bladhii* invasion in the belowground plots: Biotic and abiotic assessments and upcoming eradication and restoration.

3:00 – 4:00 – Group discussion, LTER planning, other items

Posters (only 1st author/presenter names listed here)

1. Alice Boyle (KSU) – Local and regional patterns of breeding dispersal and habitat selection in a declining grassland bird.
2. Allison Veach (KSU) – Historical precipitation regime impacts microbial community responses to dry-down/re-wet events
3. Andrew Felton (CSU) - Asymmetries in ecological responses to positive vs. negative precipitation extremes
4. Christine Bielski (UN) – Spatial imaging of fire behavior on landscapes
5. Christine Carson (KSU) – Microbe-managing: Grassland soil microbial community turnover in response to long-term management controlling nitrogen availability
6. David Hartnett (KSU) – Drivers, dynamics, and floristic diversity of grazing lawns on tallgrass prairie: a new KNZ-LTER initiative
7. Drew Scott (SIU) – Soil nitrous oxide emissions reduced with cropland to grassland restoration
8. George Manning (SIU) – Effects of grazing and fire frequency on floristic quality and soil structure and function in tallgrass prairie
9. James Guinnip (KSU) – Long-term trends of nutrient concentrations in a tallgrass prairie stream network
10. Jennifer Smith (NEON) – National Ecological Observatory Network (NEON): Prairie Peninsula Domain
11. Kevin Wilcox (OU) – Scaling soil C processes from local to regional levels across US grasslands
12. Kim La Pierre (UC Berkeley) – The role of invertebrates in structuring tallgrass plant communities.
13. Kim O’Keefe (KSU) – Tallgrass prairie ecohydrology: implications for an ecosystem in flux
14. Kyle Stropes (KSU) - Measurements of Isotopic Exchange using Tunable Diode Laser Spectroscopy in a Tall-Grass Prairie Ecosystem
15. Sally Koerner (Duke) – Changes in dominance drive global variation in herbivore effects on grassland diversity
16. Sarah Black (SIU) – Effects of insect herbivory on restored tallgrass prairie plant communities
17. Sophie Higgs (KSU) – Compound-specific dissolved organic carbon uptake in prairie streams
18. Victoria Floyd – Soil Microbial Extracellular Enzyme Activity Responses to Long-Term Nitrogen Addition and Annual Burning in Tallgrass Prairie Soil