

The 26th Annual Konza Prairie LTER Workshop

Wednesday, May 31, 2017
Konza Prairie Biological Station – Cortelyou Lecture Hall

Morning Oral Presentations

- 8:30 John Blair – Welcome and overview/status of the Konza Prairie LTER program
- 9:00 Tony Joern (KSU) – Fire/grazers and landscape heterogeneity
- 9:20 Jesse Nippert (KSU) – Ecology of woody plant encroachment
- 9:40 Melinda Smith (CSU) – Experiments to assess grassland responses to climate change
- 10:00 Walter Dodds (KSU) – Ecology of aquatic systems
- 10:20 Lydia Zeglin (KSU) – Belowground studies
- 10:40 Sara Baer (SIU) – Research on grassland restoration

Poster Session 11:00 – 12:00

LUNCH – 12:00 – 1:00

Afternoon Oral Presentations

- 1:00 Kim La Pierre (SI) – Trajectories of plant community change with chronic nitrogen manipulation: Lessons learned from nutrient experiments at Konza
- 1:12 Kevin Wilcox (OU) – Nitrogen addition and plant community structure alter grassland sensitivity to precipitation
- 1:24 Andrew Hope (KSU) – Mammal-parasite community dynamics across burn treatments
- 1:36 Keith Gido (KSU) – The use of intermittent reaches by prairie stream fishes
- 1:48 Nate Brunsell (KU) – Stability of tree-grass interactions under woody encroachment
- 2:00 Eduardo Santos (KSU) – Applying stable isotopes of CO₂ to study the carbon cycle at the ecosystem scale
- 2:12 Lindsey Bruckerhoff, Kent Connell and James Guinnip (KSU) – Integrating response among plant and animal communities to variation in climate and land management on Konza Prairie
- 2:24 Jill Haukos (KSU) – Konza Prairie education and outreach activities
- 2:36 John Briggs (KSU) – Responses to the fire reversal experiment
- 2:48 Gwen Macpherson (KU) – Groundwater and groundwater solutes: abiotic and/or biotic influences and interactions, a summary of progress
- 3:00 Pam Sullivan (KU) – Developing Biome-RT-Flux-PIHM to examine feedbacks between land cover change and subsurface hydrology, C and nutrients fluxes

3:15 – 4:30 – Group discussion, LTER planning, other items

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

1. Ava Hoffman (CSU) – Genetic diversity leads to threshold response, flowering, and metabolic differences under drought
2. Bryan Frenette (KSU) – Differences in performance and physiological response of prairie stream fishes along a stream-size temperature gradient
3. Christine Carson (KSU) – Grassland soil microbial community turnover in response to long-term nitrogen management
4. Drew Scott (SIU) – Partial support for the ‘Environmental Heterogeneity Hypothesis’ in tallgrass prairie restorations
5. Frances Andrea Chaves Rodriguez (CSU) – Constraints in a tallgrass prairie plant community recovery after loss of a dominant plant species
6. George Manning (SIU) - Processes influencing community assembly during tallgrass prairie restoration
7. Janaye Hanschu (KSU) – Belowground C cycling responses to contrasting historical fire management and N fertilization
8. Jesse Gray (CSU) – Climate change impacts on population dynamics in tallgrass prairie: Implications for species codominance
9. Juliet Fitzgibbon (SIU) – Effects of deer browse on plant diversity and productivity in restored prairie
10. Laura Mino (KSU) – Exploiting an opportunity: preliminary glimpse to soil responses after cessation of 26-year fire suppression
11. Lauren Baur (CSU) - Differential sensitivity of plant community response to extreme drought
12. Monica Shaffer (KSU) and Sammi Grieger (KSU) – Bison grazing lawns as hotspots of floristic diversity on tallgrass prairie
13. Priscilla Moley (KSU) – Grassland burning and grazing affects soil microbial diversity and heterogeneity
14. Rory O’Connor (KSU) – Browsing and fire: tools for woody plant removal
15. Sarah Black (SIU) – Effects of insect herbivory on restored tallgrass prairie plant communities
16. Sarah Koerner (USF) – Ghost Fire: Understanding mechanisms behind fire driven community differences
17. Seton Bachle (KSU) – Physiological and morphological trait plasticity in C4 grass species
18. Sophia Bonjour (SIU) – Fish influence on summer insect emergence in perennial refugia
19. Sophie Higgs (KSU) – Characterizing the transformation of specific dissolved organic carbon components in prairie streams