

The 27th Annual Konza Prairie LTER Workshop

Tuesday, May 29, 2018

Konza Prairie Biological Station – Cortelyou Lecture Hall

Morning Oral Presentations

- 9:00 Jesse Nippert – Welcome and overview/status of the Konza Prairie LTER program
- 9:15 Drew Scott (SIU), “Soil and plant-induced heterogeneity effects on soil microbial community structure”
- 9:30 Ellen Welti (OU) – “The geography of sodium shapes invertebrate communities”
- 9:45 Jesse Gray (CSU), Potential factors and mechanisms behind *Andropogon* and *Sorghastrum* codominance
- 10:00 James Guinnip (KSU), “Exploring causes of an extraordinary shift in water chemistry in a pristine grassland stream network”
- 10:15 Kent Connell (KSU), “Plant-soil history has lasting effects on soil organic matter decomposition”

Break 10:30-10:45

- 10:45 Sarah Winnicki (KSU), “The effect of Brown-headed Cowbird (*Molothrus ater*) brood parasitism on nestling growth and development”
- 11:00 Bryan Frenette (KSU), “Temperature effects on performance and physiology of two prairie stream minnows”
- 11:15 Andrew Hope (KSU), “Stable isotopes demonstrate small mammal consumer niche dynamics among Konza burn treatments”
- 11:30 Eric Duell (OSU), “Using mycorrhizal fungi to facilitate grassland restorations: Past, present, and future directions”
- 11:45 Priscilla Moley (KSU), “The Effects of Long-Term Fire and Fertilization on Belowground Nitrogen Cycling in Tallgrass Prairie”

LUNCH – 12:00 – 1:00

Poster Session 1:00 – 2:00

Afternoon Oral Presentations

- 2:00 Rory O'Connor (KSU), “Fire and browsing effects on woody encroachment”
- 2:15 Seton Bachle (KSU), “Physiological and Microanatomical Responses to Drought on the Tallgrass Prairie”
- 2:30 Sophie Higgs (KSU), “Dissolved organic matter dynamics in grassland streams”
- 2:45 Ingrid Slette (CSU), “Impacts of burn regime on soil CO₂ flux”
- 3:00 Kasey Fralick (SIU), “Factors Influencing Variation in Prairie Stream Invertebrate Community Structures”
- 3:15 Gabriel de Oliveira (KU), “Spatio-temporal variability of energy and water fluxes using Landsat-8 and eddy covariance data”

Break 3:30 – 3:45

3:45 – 4:30 – Group discussion, LTER planning, other items

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

1. Seton Bachle (KSU) – “Getting to the Root of Woody Encroachers”
2. Emily Barry, (KU) – “Characterizing Groundwater Flow Through Merokarst in the N04d section of the Konza Prairie Long-Term Ecological Research Site”
3. Mike Bartmess (KSU) – “Shrub encroachment in the Tallgrass Prairie: Using high intensity fire to manage resprouting broadleaf species”
4. Kathryn Bloodworth (Smithsonian Environmental Research Center) – “White-tailed deer herbivory does not impact plant species composition at Konza Prairie”
5. Caitlin Broderick (KSU) – “Long-term climate as a driver of tallgrass prairie structure, function and stability”
6. Tiffany Carter (KSU) – “Long-term Effects of Rainfall Manipulation on the Soil Microbial Community of a Native Tallgrass Prairie”
7. Bryan Frenette (KSU) – “Thermal ecology of prairie stream fishes: upcoming experiments
8. Kyle Ismert, (KSU) – “The Mass Emergence of 17-Year Cicada Accelerates Litter Decomposition”
9. David Hartnett (KSU) – “The Rhizosphere: An adaptation to temporal rainfall variability in arid grasslands”
10. Laura Mino, KSU – “Exploiting an opportunity: preliminary glimpse to soil responses after cessation of 26-year fire suppression”
11. Johanie Rivera Zayas (KSU) – “Greenhouse gas emissions from beef-cattle grazing systems in grasslands”
12. Monica Shaffer (KSU) – “Plant architectural shifts contribute to increased forage density on grazing lawns”
13. Dylan Smith (KSU) – “Effects of brood parasitism on survival and growth of host nestlings”
14. Jeff Taylor, KSU – “Vascular flora of the Konza Prairie: An update”
15. Leena Vilonen, CSU – “Microbial Recovery from Climate Extremes in a Tall Grass Prairie”
16. Marissa Zaricor, KSU – “Can we predict drought tolerance in Poaceae using plant traits”