

The 24th Annual Konza Prairie LTER Workshop

Friday, May 29, 2015

Konza Prairie Biological Station – Cortelyou Lecture Hall

Morning Oral Presentations

- 8:30 John Blair – Welcome and introductions; overview of the Konza Prairie LTER program.
- 9:00 Brett Sandercock - Blazing and grazing for conservation: resource selection and nest survival of Upland Sandpipers in an experimental landscape.
- 9:15 Lydia Zeglin - Microbial mechanisms of drought tolerance and the implications for grassland soil carbon storage.
- 9:30 Walter Dodds – Extreme stream-ecosystem effects from riparian disturbance in an otherwise intact watershed.
- 9:45 Allison Veach - Woody plant encroachment, and its removal, impact bacterial and fungal communities across stream and terrestrial habitats in a tallgrass prairie ecosystem.
- 10:00 Drew Scott - Soil conditions alter plant-plant competition dynamics of *Andropogon gerardii*.
- 10:15 Ellen Welti - Environmental drivers of plant-pollinator community structure.
- 10:30 Logan Shoup - Variability in macroinvertebrate assemblages and tallgrass and mixed grass prairie headwater streams.
- 10:45 *BREAK*

Poster Session 11:00-12:00

LUNCH

Afternoon Oral Presentations

- 1:00 E.J. Raynor - Resource selection of a native grazer in nutritionally heterogeneous grassland.
- 1:15 George Manning - Processes influencing community assembly during grassland restoration.
- 1:30 Kim O'Keefe - Patterns of hydraulic lift in a tallgrass prairie.
- 1:45 T.J. Adams – Effect of soil heterogeneity on plant recruitment and Orthoptera in restored prairie.
- 2:00 Melinda Smith - ChANGE: Assessing thresholds of species responses to increased nitrogen availability.
- 2:15 Andrea Brookfield - Groundwater / surface water interactions at Konza: Flow and thermal transport in N4D.
- 2:30 Jennifer Smith - National Ecological Observatory Network (NEON): a new resource for continental-scale ecology.

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

Posters (only presenter names listed here)

1. Meghan Avolio - Chronic nitrogen and phosphorus additions alter the composition and productivity of tallgrass prairie communities
2. Elsie Denton - The Extreme Drought in Grasslands Experiment (EDGE)
3. Sally Koerner - Ghost Fire: Understanding the mechanisms behind fire effects on community and ecosystem function
4. Jennifer Smith – The National Ecological Observatory Network (NEON)
5. TJ Adams - The role of soil heterogeneity in the recruitment of new species in restored prairie
6. Francis Chaves - Resource limitation in the compensatory response of a plant community to the loss of a dominant species
7. Andrew Felton - Directionality, magnitude, and duration of precipitation extremes
8. Victoria Floyd - Long term burning and fertilization affects seasonal patterns of microbial activity in tallgrass prairie soils
9. Matt Galliard - Adaptive trait variation and genetic divergence of a widespread grass *Andropogon gerardii* across a Great Plains' climate gradient
10. Jesus Gomez - Responses of a grassland spider community to habitat structural heterogeneity driven by fire and bison grazing disturbances interactions
11. Kelly Logan - Diagnosing land-atmosphere coupling strength
12. Brock Norwood - Terrestrial LiDAR characterization of stream-bed roughness in support of understanding CO₂ efflux from an intermittent, headwater stream
13. Noortje Notenbaert - Greenhouse gas fluxes from beef cattle grazing systems in the tallgrass prairie
14. Michael Rawitch - Quantifying CO₂ efflux from headwater streams
15. Drew Ricketts - Resource utilization by a top predator in an experimental landscape
16. Logan Shoup - Variability in macroinvertebrate assemblages and tallgrass and mixed grass prairie headwater streams
17. Bram Verheijen - Does patch-burn grazing management increase nest survival of declining populations of grassland songbirds?