



## 2022 AFGC Annual Meeting Agenda January 9-12, 2022—Wichita, KS

### January 8, 2022—Saturday

- 9:00am-11:00am International Grassland Congress Chair Meeting  
11:30pm- 1:30pm International Grassland Congress Committee Meetings—Mid-Congress Tour, Marketing  
2:00pm- 4:00pm International Grassland Congress Committee Meetings—Program, Support, Pre-Congress Tours  
5:00pm- 7:30pm AFGC Board of Directors Meeting

### January 9, 2022—Sunday

- 8:00am-12:00pm AFGC Affiliate Leader Workshop  
8:00am- 5:00pm Registration Open  
8:00am- 5:00pm Exhibitor Set Up, Silent Auction Set Up & Monday Poster Set Up  
12:30pm- 4:30pm Tour hosted by Kansas Forage and Grassland Council  
3:00pm- 4:30pm NIRS Consortium Workshop—Emerging NIR Technologies in Agriculture  
Coordinated by: Rebecca Kern, Ward Laboratories  
3:00pm Handheld  
3:30pm NIR Integration with drone technology presented by Rocky Lemus  
4:00pm Factors impacting accuracy of NIR data and equation development in the field  
4:00pm- 7:30pm Forage Bowl Playoff  
4:30pm- 5:30pm NIRS Consortium Membership Meeting  
5:00pm- 6:30pm Forage and Grassland Foundation Board Meeting  
5:30pm- 6:30pm NIRS Consortium Board Meeting  
6:30pm- 7:30pm AFGC Board Reception (invite only)

### January 10, 2022—Monday “Producer Day”

*(Meals provided based on registration are continental breakfast, lunch, afternoon break, and reception)*

- 7:00am- 4:00pm Registration Open  
7:00am- 7:45am Exhibits, Silent Auction, Photo Contest, Forage ID Contest, Hay Evaluation Contest  
7:00am- 7:45am Continental Breakfast in Exhibit Hall  
7:00am- 7:45am **Poster Presentations** (Author's Present)  
7:45am- 9:00am **Welcome and Opening Keynote**  
Welcome—Chris Penrose, AFGC President; Karen Woodrich, Kansas State Grazing Specialist; Tom Vilsack (invited) and/or NRSC Chief (invited)  
9:00am-9:30am Beverage Break in Exhibit Hall  
9:15am-11:00am **Workshop #1-- Ecosystem services: New business opportunities for grassland managers**  
Coordinated by Scott Flynn, Corteva Agriscience  
Grassland managers have long noted that improvements in soil fertility, grazing management and overall land stewardship have profound effects on forage production, animal production, and soil health. Today, producers can market more than just forage and animal products but also the benefits that they bring to the environment with better management. This symposium will cover some of these new markets and help producers understand how that can benefit from ecosystem service markets in the future.



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- What are ecosystem services and how are they shaping agriculture? Scott Flynn, Corteva Agriscience, Zonal Biology Leader, North American Pasture and Land Management
- Ecosystem services markets designed for agriculture: rewarding producers and scaling impacts, Amanda Raster, Ecosystem Services Market Consortium, ESMRC Working Group and Strike Team Leader
- Capturing ecosystem services under forages and grazing lands, Alan Franzluebbbers, USDA-ARS, Research Ecologist
- How will carbon markets work in forage animal production systems? Bill Hamer (Carbon Strategy & Operations Manager) and Jennifer Soong (Carbon Scientist), Granular, A Corteva Agriscience Company

*Sponsored by Corteva Agriscience*

### **Workshop #2—TBD—Kansas FGC?**

AFGC Business Meeting

### **Luncheon**

### **Workshop #3— *Winter feeding: Hay and supplementation***

Coordinated by Jaymelynn Farney, Kansas State University

This session is geared for agriculturists that feed hay to their cattle, whether they grow their own forage or purchase the forage. Topics will focus on winter feeding of the cow herd, in particular for spring-calving operations. The session will address types of forages to be fed and it will highlight a few of the main nutrients or nutritional deficits of specific forages.

- Alfalfa as "supplement" compared to grains or grain by-products, Justin Waggoner, Kansas State University, Beef Specialist
- Toxins for cattle - Which stay and which leave with hay storage, Eric Bailey, University of Missouri, State Extension Beef Specialist
- Forage storage and vitamin A - How this plays a role in issues seen with spring-calving herds, Gregg Hanzlicek, Kansas State University, DVM and Head of Diagnostics Laboratory
- Supplementation requirements based on whether primary forage is cool or warm-season hay, Shane Gadberry, University of Arkansas, Professor and Extension Specialist

### **Volunteer Oral Presentations**

1:00 Using Social Media for Forage Education and Promotion Presented by Lisa Baxter and Jennifer Tucker

1:18 Interactive Web Apps for Forage Variety Trial Data Presented by Kacey Aukema

1:36 Crabgrass Re-Seeding and Grazing Management Demonstration Presented by Jeremy Huff

1:54 Dry Fertilizer Impregnation with GrazonNext HL and DuraCor Herbicides: Benefits and Limitations Presented by Sam Ingram

2:12 Effect of an Improved Grazing Management System on Dairy Heifer Performance Presented by Amanda Grev

2:30pm-3:15pm

Break, Exhibits, Silent Auction, Photo Contest, Video Contest, Plant ID Contest, Hay Evaluation Contest

2:30pm-3:15pm

***Poster Presentations*** (Author's Present)

3:30pm-5:30pm

**FORAGE SPOKESPERSON COMPETITION**

*Sponsored by Tucker Family Farms*



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	3:30
	3:45
	4:00
	4:15
	4:30
	4:45
	5:00
	5:15
5:30pm-6:30pm	AFGC Reception in Exhibit Hall
6:00pm-8:00pm	Forage Bowl Playoff

### Poster Presentations:

- 1.) Fall Nitrogen Increased First Harvest Tall Fescue Yield by Chris Teutsch
- 2.) Spring Oat and Triticale Forage Production as Affected by Seeding Rate and Nitrogen Fertilizer Application by Augustine Obour
- 3.) Nitrogen Application Effects on Forage Sorghum Production and Nitrate Concentration by Dr. John Holman
- 4.) Impacts of Species and Harvest Timing on Winter Hardy Small Cereal Silage Yield and Feed Value by Abigail Sartin
- 5.) Impacts of Management on Small Grain Cereal Silage ,À A Survey of Nebraska Producers by Alexa Johnson
- 6.) Motivations and Issues Faced by Livestock Producers Preserving Forages by Luis A. Villalobos V
- 7.) Growth and Ensiling of Reduced Lignin Alfalfa in The Southeastern US by Morgan Boss
- 8.) Forage Productivity, Weed Density, and Soil Properties Affected by Grazing and Tillage of Annual Forages by Payton Mauler
- 9.) Comparison of Patch-Burn and Rotational Grazing with Heifers in The Mid-South by Megan Berry
- 10.) Effects of Whole-Grain Supplementation on Health, Growth, and Profitability of Pasture-Raised Lamb by Amanda Grev
- 11.) The Total Tract Neutral Detergent Fiber Digestibility (TTNDFD) Model: A New Tool for Estimating Energy from Fiber by Peter J. Ballerstedt
- 12.) Changes Over Time in Botanical Composition, Endophyte and Ergovaline on KY Cattle Farms by Echo Gotsick
- 13.) Warm-Season Annual Grasses as Companion Forage Crop for Establishing in Warm-Season Perennial Grasses by Rocky Lemus
- 14.) Comparative Animal Performance of Crabgrass Cultivars as Pinpoint Grazing Systems by Tristan Peavey
- 15.) Forage Production and Nutritional Quality of Tall Fescue and Alfalfa Under Long Term Warming and Severe Drought by Karen Catunda
- 16.) Electric Fencing for Serious Grazers: A Hands-On Program for Producers and Agricultural Professionals by Carrie Thrailkill

### January 11, 2022—Tuesday “Youth Day”

*(Meals provided based on registration are plated breakfast, lunch, and afternoon break)*

6:30am-7:00am	Tuesday Poster Set-Up
7:15am-5:00pm	Registration Open



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- 7:15am-8:00am Break, Exhibits, Silent Auction, Photo Contest, Video Contest, Plant ID Contest, Hay Evaluation Contest
- 7:15am-8:00am **Poster Presentations** (Author's Present)
- 8:00am-9:15am NATIONAL FORAGE BOWL COMPETITION with Breakfast  
*Sponsored by*
- 9:15am-9:45am Break, Exhibits, Silent Auction, Photo Contest, Video Contest, Plant ID Contest, Hay Evaluation Contest
- 9:45am-11:15am **Workshop #4—Regenerative Grazing Management**  
Coordinated by Jeff Goodwin, Noble Foundation  
**Volunteer Oral Presentations**
- 9:45 Optimizing Fescue Hayfields Through Nitrogen and Phosphorus Fertilization Presented by Bruno C. Pedreira
- 10:03 Cool Season Annual Mixture Forage Production in Southside Virginia Presented by Kathryn Payne
- 10:21 Yield and Profit Maximizing Annual Forage Rotations Presented by
- 10:39 Incorporating Perennial Forages into Southern Row Cropping Systems Presented by Eric Billman
- 10:57 Seeding Warm-season Annual Grasses into Perennial Western Wheatgrass Pasture Presented by Keith Harmony
- 11:15 Crop Yields and Soil Properties in Post-wheat Dual-Purpose Summer Cover Crops in a Dryland No-till Winter Wheat-Grain Sorghum-Fallow Cropping System Presented by Logan Simon
- Workshop #5—NIRSC Workshop—Forage Quality (Potential and actual forage quality: Implications for livestock operations)**  
Coordinated by Rocky Lemus, Mississippi State University
- 9:45 NIR data overview
- 10:00 Improving hay quality
- 10:15 Animal performance and economic impacts of hay quality
- 11:00 Q&A
- 11:30am-12:30pm Competition Awards Luncheon**
- 12:45pm-2:15pm **Workshop #5—Soil Health and Carbon Sequestration in Forage and Grazinglands**  
Coordinated by Alan Franzluebbbers, USDA-Agricultural Research Service  
Forage and grazing lands are relatively undisturbed land uses that provide reliable economic opportunities as well as potential benefits to soil health and soil organic matter accumulation. This workshop will explore management experiences on the farm, biological transformations in the soil under perennial forages, measuring techniques for determining soil health, and the extent of soil organic carbon stored under forages and grazing lands.
- Pasture management to achieve healthy soil on the R and J Ranch, Ron Locke, SW Missouri
  - Soil microbial responses under forages and with grazing management, Lisa Fultz, Louisiana State University, Associate Professor of Soil Microbial Ecology
  - Soil health changes in perennial grasslands – TBD
  - Soil organic carbon sequestration in grazed pastures, Alan Franzluebbbers, USDA-Agricultural Research Service, Research Ecologist



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### Volunteer Oral Presentations

- 12:45 Midwest Cover Crops Council, Empowering a Network of Professionals  
Presented by Anna Morrow
- 1:03 Extreme Summer Drought Impacts on Old-Field Forage Production and  
Nutritional Quality Presented by Amber C. Churchill
- 1:21 Implementing Resource Conservation Practices on Horse Farms Presented by  
Krista Lea
- 1:39 Effects of Thatch Depth on Native Warm-Season Grass (NWSG) Establishment  
Presented by Keagan Swilling
- 1:57 Northern Bobwhite Cover Type Use in a Mixed NWSG and CSG Grazing  
Landscape Presented by Doug Mitchell

2:15pm-3:00pm

Break, Exhibits, Silent Auction, Photo Contest, Video Contest, Plant ID Contest, Hay  
Evaluation Contest

### *Emerging Scientist Poster Competition*

2:15pm

2:45pm

2:15pm-3:00pm

*Poster Presentations* (Author's Present)

3:00pm

Silent Auction Closes

*Collect items at AFGC registration desk by 4pm!*

3:00pm-5:00pm

### **EMERGING SCIENTIST COMPETITION**

*Sponsored by Corteva Agriscience*

3:00

3:15

3:30

3:45

4:00

4:15

4:30

4:45

### **Workshop #6—Grazing cover crops and crop residues**

Coordinated by Mary Drewnoski, University of Nebraska

How do you get the most out of your cover crop forages? This workshop will help  
you take full advantage of the opportunity to use cover crops for forage and will  
include updates on the latest research in the area of species selection for forage and  
grazing management.

- Using winter annual cover crops as forages for grazing in the Southeast, Jennifer  
Tucker, University of Georgia, Associate Professor of Animal and Dairy Science
- Evaluation of integrated livestock/cropping systems in the North Central U.S.,  
Kevin Sedivec, North Dakota State University, Professor and Rangeland  
Management Specialist
- Using oats and brassicas to grow calves in the fall and winter, Mary Drewnoski,  
University of Nebraska, Associate Professor and Beef Systems Specialist

5:15pm-6:30pm

“Hot Topics” Session

6:45pm

Banquet Seating Begins

7:00pm-9:00pm

**AFGC Awards Banquet**

Poster Presentations:



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- 1.) Impact of BMR Trait on Decomposition Rates of Sorghum-Sudangrass by Brandon Dooley
- 2.) Extraction of Lignin Monomers for UPLC Analysis by Morgan Boss
- 3.) Chlorophyll Fluorescence as an Indicator of Forage Plant Stress by Sarah Goslee
- 4.) Does Limiting Water Within a Subsurface Drip Irrigation System Change Alfalfa Quality? by Keith Harmony
- 5.) Are You Part of the 88 or the 12? by Peter J. Ballerstedt
- 6.) Reaching Georgia Forage Producers in a Virtual Environment by Carole Knight
- 7.) Pasture Biomass Estimation Using Crop Surface Modeling and Vegetation Indices by Brendan MacInnis
- 8.) Using GPS to Improve the Accuracy of Frost Seeding by Brittany Hendrix
- 9.) Measuring Impact of Fertilization on Broomsedge Encroachment in Hayfields using Remote Sensing by Jordyn Bush
- 10.) Evaluation of Remote Sensing Techniques to Measure Crabgrass Encroachment in Tall Fescue Stands by Jordyn Bush
- 11.) Measuring Proportion of Live and Dead Vegetation in Pastures using Remote Sensing by Jordyn Bush
- 12.) Tepary: A Drought Tolerant Forage For The Southern Great Plains? by Travis Witt
- 13.) Novel Pest Management Strategies for Southern Forage Systems by Nicholas Shay
- 14.) Invasive Speices on Kansas Grasslands by Walter H. Fick
- 15.) Impact of Management on Bermudagrass Stem Maggot Damage by Lisa Baxter
- 16.) Effect of Planting Population and Maturity at Harvest on Forage Yield and Nutritional Composition of Conventional and BMR Genotypes of Corn by Manuel Peña

### **January 12, 2022—Wednesday**

7:30am-9:30am AFGC Board Meeting

8:00am-10:00am **Workshop#7**

*Held in collaboration with USDA NRCS*