### Wednesday, November 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am</td>
<td>Registration &amp; Exhibitor Set-up</td>
</tr>
<tr>
<td>8:15 - 8:30 am</td>
<td>Welcome, Orientation and Announcements - Jack Fry (Flint Hills Room)</td>
</tr>
<tr>
<td>8:30 - 9:20 am</td>
<td>Tips &amp; Tricks for Accurately Applying Preemergence Herbicides to Turf &amp; Ornamentals - Zane Raudenbush (3A/3B-1hr)</td>
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<tr>
<td>9:20 - 9:40 am</td>
<td>BREAK</td>
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<tr>
<td>9:40 - 10:05 am</td>
<td>Basics of Soils, Soilless Substrates &amp; Fertilization - Cheryl Boyer</td>
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<tr>
<td>10:10 - 10:35 am</td>
<td>Turfgrass for KS - Ward Upham</td>
</tr>
<tr>
<td>10:40 - 11:05 am</td>
<td>Turfgrass Weeds - Dani McFadden (3B - .5 hr)</td>
</tr>
<tr>
<td>11:10 - 11:35 am</td>
<td>Turfgrass Diseases - Megan Kennelly (3B - .5 hr)</td>
</tr>
<tr>
<td>11:35 - 1:00 pm</td>
<td>Lunch (On Your Own)</td>
</tr>
<tr>
<td>1:00 - 1:25 pm</td>
<td>Fertilization - Steve Keeley</td>
</tr>
<tr>
<td>1:30 - 1:55 pm</td>
<td>Mowing Basics - Ross Braun</td>
</tr>
<tr>
<td>2:00 - 2:25 pm</td>
<td>Cultivation - Ross Braun</td>
</tr>
<tr>
<td>2:30 - 3:00 pm</td>
<td>Irrigation - Jack Fry</td>
</tr>
<tr>
<td>3:05 - 3:30 pm</td>
<td>Pushing Back Preemergence Applications for Better Late Season Control - Roch Gaussoin (3A &amp; 3B - .5 hr)</td>
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<tr>
<td>3:30 - 5:30 pm</td>
<td>TRADE SHOW - Meet with vendors, network, and chat with speakers in an informal setting (Free refreshments)</td>
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<tr>
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<td>MEET THE PESTS! Come to the trade show for an interactive exhibit of turf &amp; landscape pests. You can complete this only one time during the conference, for a total of 0.5 hr of 3A &amp; 3B.</td>
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<td>Event</td>
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<tr>
<td>7:30 am</td>
<td>Registration</td>
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<tr>
<td></td>
<td><strong>General Session</strong> - Flint Hills Room (Jack Fry, Moderator)</td>
</tr>
<tr>
<td>8:00 - 8:20 am</td>
<td><strong>Welcome, Announcements, Awards</strong> - Mike Maas, KTF President</td>
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<tr>
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<td>Each participant will be given a raffle ticket at the beginning of the General Session. Two lucky winners will each receive 2 tickets to the K-State vs. Nebraska Men’s Basketball game at the T-Mobile Center in Kansas City on Saturday, December 17.</td>
</tr>
<tr>
<td>8:20 - 9:10 am</td>
<td><strong>The Surprising Amount of Science Behind Pesticide Recommendations</strong> - Paul Koch (3A &amp; 3B - 1 hr)</td>
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<td>9:10 - 10:00 am</td>
<td><strong>Reflections on 35 Years of Turfgrass Research &amp; Outreach</strong> - Roch Gaussoin (3B - 1 hr)</td>
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<td><strong>Advanced Turf</strong> - Ross Braun &amp; Jack Fry</td>
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<td><strong>Nursery &amp; Landscape</strong> - Red Headed Flea Beetle: A Major Insect Pest of Nursery Production Systems - Raymond Cloyd (3A - 1 hr)</td>
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<td><strong>Dealing with Pests</strong> - Zane Raudenbush (3B - 1 hr)</td>
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<tr>
<td>11:05 - 11:55 am</td>
<td><strong>Student Internship Overview by K-State Students</strong></td>
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<td><strong>Nursery &amp; Landscape Disease Update</strong> - Judy O’Mara (3A - 1 hr)</td>
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<td><strong>Surf &amp; Turf: Surface Runoff and Turfgrass Management Techniques for Healthy Ponds</strong> - Joe Gerken (3A &amp; 3B - 1 hr)</td>
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<tr>
<td>Noon - 1:30 pm</td>
<td><strong>Trade Show (Lunch served at Noon in Big Basin/Kaw Nation Room)</strong></td>
</tr>
<tr>
<td>1:30 - 2:20 pm</td>
<td><strong>Managing Minimal-To-No-Mow Areas on the Golf Course and Landscape</strong> - Ross Braun (3A &amp; 3B - 1 hr)</td>
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<td><strong>Strategies for Avoiding “The Race to the Bottom”</strong> - Randy James</td>
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<td><strong>Industry Panel Discussion</strong></td>
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<td>#Hosting the PGA TOUR Korn Ferry event - Logan Spurlock</td>
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<td>#The State of the Seed Market - Todd Winkelman</td>
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<td>#Sports Turf Highs and Lows in '22 - Caleb Clements and Jody Gill</td>
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<td><strong>Personal Financial Planning</strong> - Elizabeth Kiss</td>
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<td><strong>Suppressing Weeds with Organic Products</strong> - Dani McFadden (3B - .5 hr)</td>
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<td><strong>Tree Injections: A Solution or Problem?</strong> - Randy James (3A - .5 hr)</td>
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<tr>
<td>3:35- 3:50 pm</td>
<td><strong>Considerations for Hiring New Media Marketing Personnel</strong> - Cheryl Baylor</td>
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<tr>
<td>3:35 pm</td>
<td><strong>Commercial Pesticide Exam - Konza A room</strong></td>
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<tr>
<td>3:50 pm</td>
<td>Conference Adjourned</td>
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**PRESENTATION DESCRIPTIONS**

**Wednesday, November 30**

**General Session** - Flint Hills

**Welcome, Orientation and Announcements** - Jack Fry

Tips and Tricks for Accurately Applying Preemergence Herbicides for Turf & Ornamentals - Zane Raudenbush
An overview of the most commonly used preemergence herbicides in turf and ornamentals and techniques for applying liquid and granular products accurately and efficiently. (3A/3B - 1 hr)

**Basic Turf** - McDowell/Tuttle

A series of presentations that cover the basic knowledge needed to manage turf in the Midwest. A great starting point for new employees.

**Basic Nursery & Landscape** - Alcove

A series of presentations that cover the basic knowledge needed to manage plants growing in nurseries and landscape systems in the Midwest. A great starting point for new employees.

**SPEAKERS**

- Charles Barden, Horticulture, K-State
- Cheryl Boyer, Horticulture, K-State
- Caleb Clements, North KC School Dist.
- Raymond Cloyd, Entomology, K-State
- Jack Fry, Horticulture, K-State
- Roch Gaussoin, Agronomy & Horticulture, Univ. of Nebraska
- Joe Gerken, Wildlife & Outdoor Mgmt., K-State
- Jody Gill, Creekside Baseball, Lees Summit, MO
- Jason Graves, Central KS Extension District, Salina, KS
- Jason Griffin, Horticulture, K-State
- Randy James, Tree Biologics, Manhattan, KS
- Steve Keelye, Horticulture, K-State
- Megan Kennelly, Plant Pathology, K-State
- Elizabeth Kiss, Personal Financial Planning, K-State
- Paul Koch, Plant Pathology, Univ. of Wisconsin
- Dani McFadden, Horticulture, K-State
- Matthew McKerman, Sedgwick Co. Extension, Wichita, KS
- Judy O’Mara, Plant Pathology, K-State
- Dennis Patton, Johnson Co. Extension, Olathe, KS
- Zane Raudenbush, Davey Tree Expert, Ohio
- Drew Ricketts, Wildlife & Outdoor Mgmt., K-State
- Randy James, Tree Biologics, Manhattan, KS
- Steve Keelye, Horticulture, K-State
- Megan Kennelly, Plant Pathology, K-State
- Elizabeth Kiss, Personal Financial Planning, K-State
- Paul Koch, Plant Pathology, Univ. of Wisconsin
- Dani McFadden, Horticulture, K-State
- Matthew McKerman, Sedgwick Co. Extension, Wichita, KS
- Judy O’Mara, Plant Pathology, K-State
- Dennis Patton, Johnson Co. Extension, Olathe, KS
- Zane Raudenbush, Davey Tree Expert, Ohio
- Drew Ricketts, Wildlife & Outdoor Mgmt., K-State
- Logan Spurlock, Blue Hills CC, Kansas City, MO
- Cassie Thiessen, Post Rock Extension District, Beloit, KS
- Ward Upham, Horticulture, K-State
- Todd Winkelman, Grass Pad, Olathe, KS
- Charles Barden, Horticulture, K-State
- Cheryl Boyer, Horticulture, K-State
- Caleb Clements, North KC School Dist.
- Raymond Cloyd, Entomology, K-State
- Jack Fry, Horticulture, K-State
- Roch Gaussoin, Agronomy & Horticulture, Univ. of Nebraska
- Joe Gerken, Wildlife & Outdoor Mgmt., K-State
- Jody Gill, Creekside Baseball, Lees Summit, MO
- Jason Graves, Central KS Extension District, Salina, KS
- Jason Griffin, Horticulture, K-State

**Diseases, Insects & Weeds** - Flint Hills

**Core Hour: Laws, Safety & Environmental Concerns** - KDA
Regulatory information required for certified applicators.

Biting “Bugs”: How to Avoid Getting Bitten by Biting “Bugs” - Raymond Cloyd
Learn about the biology and ecology of mosquitoes, ticks, chiggers, and oak leaf mite and the strategies that can be implemented to alleviate getting bitten by these biting “bugs.” (3A/3B - 1 hr)

**Landscape & Turf Disease Update** - Judy O’Mara
This session will cover common Kansas landscape and turf plants and their current pest challenges. (3A/3B - 1 hr)

**Common Diseases of Cool-Season Turfgrass** - Paul Koch
Fungal diseases are important pests of cool-season turfgrasses. Changing conditions in recent summers have resulted in increased frequency and severity of certain diseases. This presentation will summarize some of the most common and destructive turfgrass diseases and discuss strategies for their effective management based on the latest university research. (3B – 1 hr)

**Pushing Back Preemergence Applications for Better Late Season Control** - Roch Gaussoin
Crabgrass and foxtail germinate at different times. Can an applicator adjust timing to control both species effectively and increase efficiency without compromising control? Are there other weed pests that could also be better controlled with simple adjustments in timing? Results of a research investigating this strategy will be demonstrated and discussed. (3A/3B - 0.5 hr)
Organic Matter Management for Cool-Season Golf Greens and Sports Turf - Roch Gaussoin
The organic matter story, as told repeatedly, is continuing to evolve. What was, what is, and what might be on the horizon will be discussed, focusing on what the turfgrass manager can do to manage organic matter accumulation in sand based rootzones. (3B - 1 hr)

Preparing Putting Greens for the Summer Marathon - Jack Fry
Various cultural practices can impact the performance of creeping bentgrass and annual bluegrass through summer heat. You may hear one or more cultural strategies of interest from an extended list to be presented.

Reduced Risk Pest Management - Paul Koch
Pesticides are a vital piece of an effective pest management plan, but their use is coming under increasing scrutiny and pesticide-free alternatives have yet to provide commercially viable alternatives. In this seminar we’ll discuss the science behind implementing a reduced-risk pest management program and strategies that you can employ to reduce risk in your own pest management plan. (3A/3B - 1 hr)

Golf Course Sprayers: Past, Present and Future Technologies - Zane Raudenbush
This presentation will discuss the difference between speed and pressure spraying versus flow-based spraying. Attendees will learn about GPS controlled sprayers and emerging technologies. (3A/3B - 1 hr)

Understanding Herbicide Failures - Why Didn’t My Application Work as Expected? - Steve Keeley
Sometimes herbicide applications don’t meet our expectations. Why is that? This presentation about preemergence and postemergence herbicides will discuss some common reasons herbicide applications fail, and what you can do about it. (3B - .5 hr)

Thursday - December 1

Welcome and Announcements - Mike Maas
Each participant will be given a raffle ticket at the beginning of the General Session. Two lucky winners will each receive 2 tickets for the K-State vs. Nebraska Men’s Basketball game at the T-Mobile Center in Kansas City on Saturday, December 17.

The Surprising Amount of Science Behind Pesticide Recommendations - Paul Koch
In this seminar we will discuss the surprising amount of science that goes into those seemingly straightforward product recommendations for pesticides used on turf and landscape plants. We will focus on how the research is conducted, how the data is collected and analyzed, and how to accurately read those research reports. Attendees will learn more about the university research process, be able to confidently read and understand university research reports, and better appreciate the resources needed to conduct research. (3A/3B - 1 hr)

Reflections on 35 years of Turfgrass Research & Overview - Roch Gaussoin
After 35 years of turfgrass research and sharing recommendations with turfgrass managers it has become apparent that, just when you think you have things figured out, you realize you don’t. Expect the unexpected! (3B - 1 hr)

New Zoysia Update - Ross Braun & Jack Fry
A 10-year, four-phase collaborative effort among three universities has developed a new hybrid zoysiagrass with improved turf quality, winter hardiness, and pest resistance in comparison to commercial zoysiagrass cultivars. Results and future plans will be discussed.

Managing Minimal-to-no Mow Areas on the Golf Course and Landscape - Ross Braun
Management and weed control strategies for minimal-to-no mow areas and ornamental grasses on golf courses, home lawns, and in the landscape. (3A/3B - 1 hr)

Industry Panel Discussion
*Hosting the PGA TOUR Korn Ferry event - Logan Spurlock, Blue Hills CC
*The State of the Seed Market- Todd Winkelman, Grass Pad
*Sports Turf Highs and Lows in ’22 - Caleb Clements, North KC School District and Jody Gill, Creekside Baseball
Redheaded Flea Beetle: A Major Insect Pest of Nursery Production Systems - Raymond Cloyd
Hear about the biology, ecology, damage, and management associated with the redheaded flea beetle, a major insect pest of nursery production systems. (3A - 1 hr)

Nursery & Landscape Disease Update - Judy O’Mara
This session will take a look at introduction and movement of emerging diseases within nursery and landscape settings. (3A - 1 hr)

Strategies to Avoid “The Race to the Bottom” - Randy James
Owning and operating a business is not for the faint of heart. How do we create and hold to a vision that demands our best selves and avoids the all too common “Race to the Bottom?”

Personal Financial Planning - Elizabeth Kiss
Making smart financial decisions is important in business and in our personal lives. Let’s learn together how being prepared financially for life’s challenges will help us feel more secure and be able to plan for the future. In this session, we’ll cover considerations for current, ongoing, and future financial obligations so we can achieve our goals and enjoy life.

Considerations for Hiring New Media Marketing Personnel - Cheryl Boyer
Engaging with customers consistently can be challenging. Sometimes it makes sense to assign new-media marketing tasks to internal staff and sometimes it makes sense to hire an external contractor. This short session will cover things to think about and questions to ask in the hiring process.

Developing a Comprehensive Silvery-Thread Moss Control Program - Zane Raudenbusch
Attendees will learn about the most important life history traits of silvery-thread moss and how to manipulate their management practices to reduce the overall competitiveness of silvery-thread moss. (3B - 1 hr)

Surf & Turf: Surface Runoff and Turfgrass Management Techniques for Healthy Ponds - Joe Gerken
We will discuss how to properly manage turfgrass systems and watersheds for successful ponds. Discussions will include fertilizer and herbicide applications, best watershed management practices, and techniques to manage ponds for healthy ecosystems. (3A/3B - 1 hr)

Controlling Canada Goose Damage to Turf and Landscapes - Drew Ricketts
Resident Canada geese can cause significant damage to turf systems through their feeding activities, and feces accumulation can be a sanitary concern. Furthermore, geese sometimes choose to nest near areas of high human activity and their territorial behavior can be disruptive. This talk will cover Canada goose biology, appropriate methods for managing goose damage, and the legality of goose control.

Suppressing Weeds with Organic Products - Dani McFadden
Crabgrass control in the spring is often critical for homeowners and turf managers alike. Come hear about organic control strategies we have evaluated during an ongoing multi-state research trial. (3B - .5 hr)

Tree Injections: A Solution or Problem? - Randy James
Tree Trunk injections are becoming more common in plant health programs each year. How do we sort through the myriad of systems and products now available to help trees not hurt them? (3A - .5 hr)
The Kansas Turf & Landscape Conference will be held at the Hilton Garden Inn, 410 S. 3rd St., Manhattan, KS.

**Hotel**
Hilton Garden Inn (410 S. 3rd St., Manhattan.). Room rate: $104 Reservations can be made online by October 30 at https://www.hilton.com/en/attend-my-event/mangigi-turf22-df477f7e314-4351-a6db-8d614d9462f9/ OR, call the hotel directly at (785) 532-9116 (please mention you are part of KS Turfgrass Assn. Group code KSTF).

**Registration**
To register online and pay by credit card go to https://2022turfconference.eventbrite.com OR fill out the registration form and send in by November 22.

**Special Assistance**
A conference participant who needs accommodations due to a disability or special dietary requirement, should indicate services needed on the registration form. Early notification is requested to ensure that accommodations can be provided in a timely manner.

**Cancellation/Refund Policy**
If cancellation is necessary, substitutions with another person from the same company is allowed. A written request for a refund must be received before Nov. 22, 2022. The amount refunded will be less a $25.00 processing fee. No refunds will be made after this date. Mail your request to: KTF, 1712 Claflin, 2021 Throckmorton, Manhattan, KS 66506.

If inclement weather should prevent your attendance, no refunds are provided. Significant expenses occur on behalf of the KTF in its commitment to hold this conference.

Covid protocols will match what is current at the time for Riley County.

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**Pesticide Recertification Credit Hours**
The Kansas Turf & Landscape Conference has been approved for state pesticide applicator recertification credit:

<table>
<thead>
<tr>
<th>Category</th>
<th>Hours</th>
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<tbody>
<tr>
<td>1 Core Hour</td>
<td>3A - 7 hrs</td>
</tr>
<tr>
<td>3A - 7 hrs</td>
<td>3B - 7 hrs</td>
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Presentations qualifying for 3A or 3B credit are noted after the title. Pick up a form at the registration table to record pesticide recertification credits. A monitor must sign each form before you leave the session. At the end of the conference, give your form to the moderator in the last session you are attending.

If your license expires this year, go to https://agriculture.ks.gov/divisions-programs/pesticide-fertilizer/renewals to pay the fees and renew before December 31st.

**GCSAA Education Points**
November 30 - 0.55 ed points  
December 1 - 0.55 ed points

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**Int'l. Society of Arboriculture**
CEUs available for Certified Arborists
Kansas Turf & Landscape Conference
November 30 & December 1, 2022          Pre-Registration Form
Register online at: https://2022turfconference.eventbrite.com

FULL Registration (2 days)   ($275.00 at conference) $250.00 x  ______  _______
Includes 2-day conference, lunch on Thursday, complementary KTF membership dues, and trade show.

Additional persons from same firm   ($140.00 at conference) $115.00 x  ______  _______
No dues included.

WEDNESDAY only-Nov. 30 ($150 at conf.) Includes trade show; no dues. $125.00 x  ______  _______

THURSDAY only-Dec. 1   ($150.00 at conference) $125.00 x  ______  _______
Includes lunch, trade show; no dues.

2023 Kansas Turfgrass Foundation Membership Dues $  75.00 x  ______  _______
A 2023 Kansas Turfgrass Foundation Directory will be sent to each member
Name of individual(s) joining association: _______________________________________________________________

2023 KNLA Membership Dues can be paid at http://ksnla.org/join-knla/

☐ Yes, I need to take the Pesticide Exam on Dec. 1 at 3:35 p.m.

TOTAL: $ ___________

Dietary or special assistance needed: _________________________________________________________________

Company/business name _______________________________________________________________________

Individual ___________________________________________________________________________________

Mailing address _______________________________________________________________________________

City ___________________________ State _____  Zip ___________  Phone (         ) __________________

Email: _______________________________________________________________________________________

Please return registration form by November 22 to:
Turf Conference Registration, 1712 Claflin, 2021 Throckmorton Plant Science Cntr., Manhattan, KS 66506-5507
Fax: (785) 532-6949       cdipman@ksu.edu

Payment:
☐ Check payable to Kansas Turfgrass Foundation enclosed    ☐ Please invoice (payable upon receipt)
☐ Credit card No. ___________________________________________   Exp. ________  3-4 digit CID_________
Name on card (printed) _________________________________________
Kansas Turf & Landscape Conference   November 30 & December 1       Manhattan, KS

Featured Speakers

Dr. Roch Gaussoin
Dr. Roch Gaussoin is a professor in the Agronomy and Horticulture Department at the University of Nebraska. His research focuses on two areas — turfgrass weed management investigations and organic matter management in sand based rootzones.

Dr. Paul Koch
Dr. Paul Koch is an Assistant Professor in the Department of Plant Pathology at the University of Wisconsin. The goal of his research program is to lower the non-target impacts of pest management in turfgrass and urban landscapes. His focus is on precision disease management using predictive models, pesticide fate and impact on turfgrass landscapes, and the turfgrass microbiome.

Dr. Zane Raudenbush
Dr. Zane Raudenbush is the Turf and Herbicide Specialist at Davey Institute. He supports Davey’s turfgrass programs and plays an active role in the development of a strategic research plan for the Davey Institute’s new research campus in Kent, Ohio.