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Kansas Turf Conference in conjunction with KNLA December 6, 7 & 8

This year the Kansas Turfgrass Conference *in conjunction with the Kansas Nursery & Landscape Association* will be held at the Kansas Expo Centre in Topeka on December 6, 7 & 8. By partnering with KNLA, we hope to attract a larger audience and trade show, as well as offering more sessions for attendees.

The conference is an excellent way to learn about turf and landscape management, visit with old friends, network with new ones, and see all the latest in equipment and supplies from local and national vendors.

Sessions include Basic Turfgrass; Disease, Insect & Weed Management; Golf Turf Management; Advanced Turf Management; Sports Turf; Irrigation; Business Management, Landscape, Nursery & Ornamentals and NurseryWorks.

New this year will be round table discussions in the trade show Wednesday morning, December 7 during the General Session. Meet the speakers and ask questions in an informal setting in the trade show and have more time to visit with our vendors!

You can register online for the conference at <http://2016ktf.eventbrite.com>

The conference has been approved for the following :

State Pesticide Applicator Recertification Credit Hours:

1 Core Hour 3A—8 hours 3B—9 hours

GCSAA Education Points

December 6 workshops—.45 December 7 & 8 conference—.75

International Society of Arboriculture

CEUs available for Certified Arborists

You will receive a conference program in the mail with a ballot for board of directors of KTF. Please take the time to vote for 3 board of directors and mail or fax it in. See you in December!



President's Message



Thank you to everyone who made it out to the Turfgrass Field Day in Manhattan this year! Thank you to the K-State staff, the vendors and to all of those who contributed to putting on a great event.

As usual, turfgrass in Kansas saw it's fair share of challenges this year. From excess rain to excess heat, turf managers across the state had their

hands full. And now that the temperatures have started to come down, so has the stress level for many turfgrass managers.

There is still lots of work to be done outside, but we can start looking forward to the Kansas Turfgrass Conference that will be held December 6, 7 & 8th in Topeka, KS. The conference gives everyone a chance to regroup and discuss what we've learned from another year of challenges. Prior to the Field Day, the board members met to discuss new ideas to help give everyone a better experience at the conference. This year's conference is shaping up to be a great one. Great speakers are lined up from Kansas and a few out-of-state presenters to discuss topics that will benefit all turf managers. I look forward to seeing you all there.

Lastly, I want to thank Christy Dipman, the KTF and all of our members for the privilege of serving as your president. It's been an honor to represent the KTF and I look forward to continuing my support of this great organization going forward. *(Rich Prendergast)*

Power Raking or Core Aeration?

September is the optimum time to power rake or core-aerate tall fescue and Kentucky bluegrass lawns. These grasses should be coming out of their summer doldrums and beginning to grow more vigorously. This is a good time to consider what we are trying to accomplish with these practices.

Power raking is primarily a thatch control operation. It can be excessively damaging to the turf if not done carefully. For lawns with one-half inch of thatch or less, I don't recommend power raking; instead, use aeration. For those who are unsure what thatch is, it is a springy layer of light-brown organic matter that resembles peat moss and is located above the soil, but below the grass foliage. Power raking pulls up an incredible amount of material that then must be dealt with by composting or discarding.



Core-aeration is a much better practice for most lawns. By removing cores of soil, core-aeration relieves compaction, hastens thatch decomposition, and improves water, nutrient, and oxygen movement into the soil profile. This operation should be performed when the soil is just moist enough so that it crumbles easily when worked between the fingers. Enough passes should be made so that the holes are spaced about 2 to 3 inches apart. Ideally, the holes should be 2.5 to 3 inches deep. The cores can be left on the lawn to decompose naturally (a process that usually takes two or three weeks, depending on soil-type), or they can be broken up with a power rake set just low enough to nick the cores, and then dragged with a section of chain-link fence or a steel doormat. The intermingling of soil and thatch is beneficial to the lawn. *(Jared Hoyle)*

Mark the Dates!

December 6, 7 & 8, 2016
Kansas Turfgrass Conference,
Topeka

August 3, 2017
Turfgrass Field Day
Wichita

Rocky Ford Update



Rocky Ford is a happening place. Along with the new irrigation, we are preparing areas for new trials and reseeding some so we can duplicate research that was done this past summer. We are preparing an area to do some research on ryegrass...110 varieties (I didn't know there were that many!), replicated 3 times. It will be interesting. Zoysia plots have been inoculated with large patch.

We're also seeding tall fescue into seeded zoysia to see if color can be kept in dormant zoysia. As you can see, a lot is going on.

But the best thing that happened this year was that Christy and I were blessed with 4 grandkids in 6 months.....TWO sets of twins! It is great being a grandpa!

We had a great Turfgrass Field Day here on August 4. Thanks to all of you who took the time to find out what research we are conducting out here to assist you in your business of growing turf!

The Kansas Turf Conference is just around the corner—December 6, 7 & 8. Mark the dates to attend! I hope to see you there! *(Cliff Dipman)*

Irrigation Project at Rocky Ford

We have a lot going on out at Rocky Ford Turfgrass Research Center in Manhattan. One project is about 3 acres of new research plots with irrigation. With the support and donations from SiteOne, Hunter, MidWest Laser Leveling, Ewing, Net-afim and others, we will have new areas for future research, teaching and extension programs. From the entire Horticulture and Natural Resources department we thank you for making this project possible!

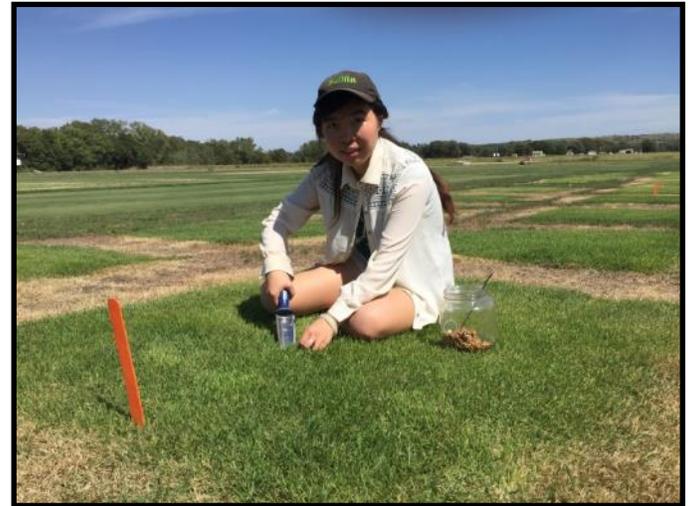
One of the best parts of this project is being able to incorporate the Landscape Irrigation Class taught by Dr. Cathie Lav- is. They have been hard at work with the installation of the research plots. From laying out the plots to digging trenches, they get hands-on experience with irrigation installation.

This is a great project benefitting not only the research plots, but students too, as it is a teaching and learning experience.

As you can see we had some issues with mother nature! There will be more to come, but just wanted to let everyone know how the Department of Horticulture and Natural Resources is combining the three missions of a land-grant university of Teaching, Research and Extension for Kansas. *(Jared Hoyle)*



New Research Happening at Rocky Ford



PhD student Mingying Xiang along with Dr. Megan Kennelly and Dr. Jack Fry are working with Texas A&M, Purdue, and other universities to screen zoysiagrass breeding lines for disease resistance and agronomic traits. We recently inoculated plots with the fungus that causes large patch disease. We cultured the fungus in the lab, grew it out on sterilized oats in glass jars, and then hauled our tailgate-of-death-and-destruction out to the field. To inoculate, we put the colonized oats just below the thatch.

Small Unmanned Aircraft Systems (Drones) Detect Drought Stress in Turfgrass

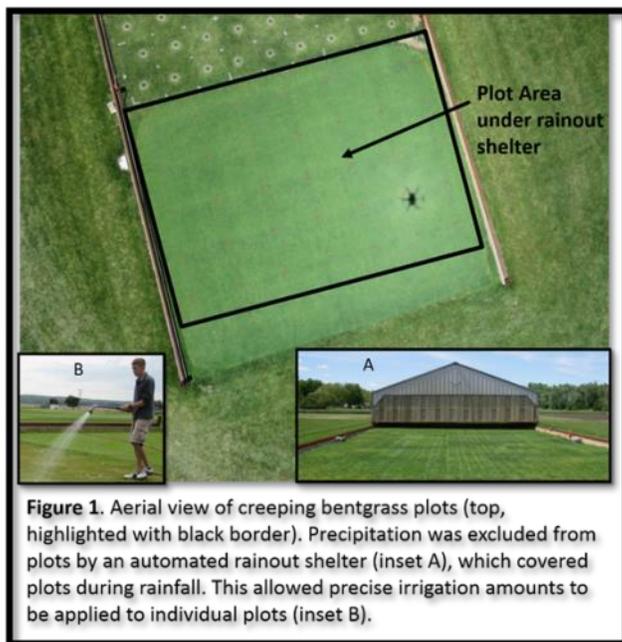
Drones and Turfgrass Management

By now you have likely heard about the potential use of drones, more appropriately called small unmanned aircraft systems (sUAS), for turfgrass management. It's an exciting concept - to fly a sUAS over your turf and within minutes identify potential management issues. This could include drought or heat stress, nitrogen deficiency, weed, insect, or disease infestations, soil compaction, etc. To be sure, flying a sUAS equipped with a video camera can reveal patterns in the turf that may not be visible at ground level. However, much work must be accomplished before the full potential of sUAS technology for turf management can be realized.

Recently, the Federal Aviation Administration (FAA) released its long-promised guidelines for using sUAS for commercial and research purposes. There isn't space here to detail all the regulations, but basic requirements include passing an FAA exam and being vetted by the TSA, among other things. More information is available at the following link about flying for work or business: https://www.faa.gov/uas/getting_started/fly_for_work_business/. Safety is a primary concern of the FAA. However, sUAS pilots should check local or state laws that may restrict flying based on privacy issues. Safety and privacy issues certainly have implications for using sUAS for turf management, especially in urban or other densely populated areas.

Scientific remote sensing techniques can be used to evaluate turfgrass properties and diagnose plant stress. Some of this technology has been around for years, although in the form of hand-held or ground-vehicle-mounted platforms. By mounting remote sensing instruments on sUAS, one can cover large areas of turfgrass (e.g., an 18-hole golf course or a sod farm) much faster than the aforementioned ground-based platforms.

Preliminary Research Results



Kansas State University is evaluating the ability of sUAS to detect drought stress in turfgrass using remote-sensing techniques across a gradient of well-watered to severe deficit irrigation. A part of this research also includes comparing measurements between sUAS and ground-based platforms. The overall goal is to advance the use of sUAS in turfgrass management through scientific research. Here we present results from the first year of our study; another year of research is planned before this project is completed.

A field study was conducted from June 29 through August 31 on creeping bentgrass mown at 5/8 inches under a rainout shelter (Fig. 1). Six irrigation treatments included 100, 80, 65, 50, 30, and 15 percent replacement of estimated evapotranspiration (ET). Measurements were taken weekly with a digital camera, modified to include near infrared (NIR), green, and blue bands. The camera was mounted on a hexacopter flown at 50 feet above ground level within three hours of local solar noon. Images were processed for eight vegetation indices (combinations of NIR, green, and blue bands) and the three individual bands were evaluated for ability to detect drought stress. Additional measurements included soil moisture at three inches with a FieldScout TDR 300, visual quality, percentage green cover (digital image analysis); and normalized difference vegetation index (NDVI) with a handheld, FieldScout 1000.

After 64 days of irrigation treatments, soil moisture was highest in 100 and 80 percent ET plots and declined with ET treatment (Fig. 2A). Soil moisture was statistically similar between 80 and 65 percent ET, but higher at 100 than at 65 percent ET. Turfgrass quality was acceptable among 100 through 65 percent of ET, but quality declined thereafter and was unacceptable (<6) at 50 through 15 percent of ET (Fig. 2B). Green cover was similar among the 100 through 50 percent ET treatments, but it declined rapidly at 30 and 15 percent of ET (Fig. 2C). Significant bare soil was visible in 15 percent ET, and less so in 30 percent ET plots. Measurements with handheld NDVI detected no differences among the 100 through 50 percent ET plots (Fig. 2D).

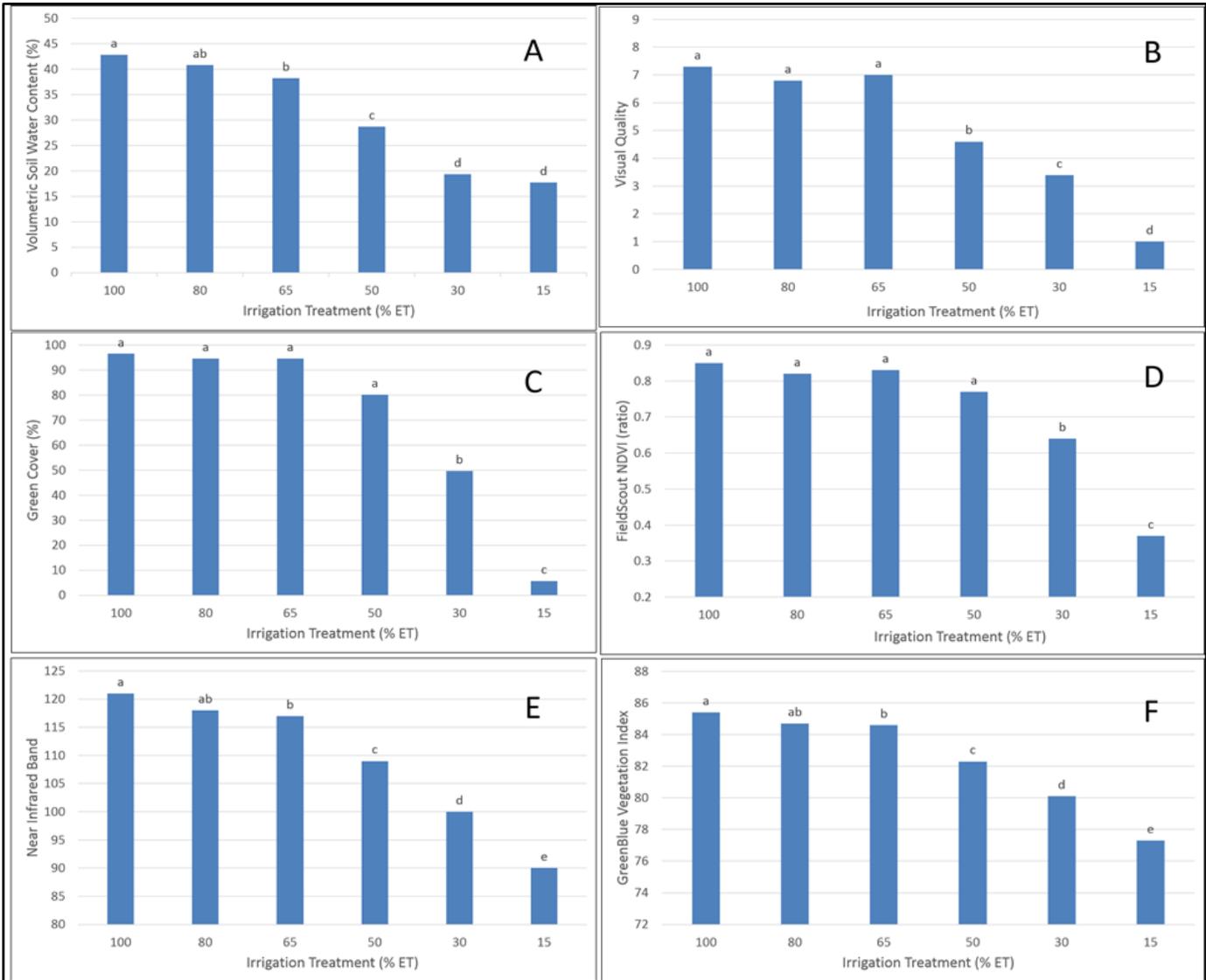


Figure 2. Measurements on the final day of the study of volumetric soil water content (A); visual quality (B); percentage green cover (C); NDVI with handheld instrument (D); near infrared (NIR) with modified digital camera mounted on sUAS (E); and GreenBlue vegetation index obtained with modified digital camera mounted on sUAS (F).

Among the eight vegetation indices and three individual bands, the near infrared (NIR) band and Green-Blue vegetation index $[(Green - Blue)/(Green + Blue)]$ were most sensitive (Figs. 2E, 2F, and 3). These bands were the only ones that detected differences between 65 and 100 percent ET, which was similar to the trend in soil moisture described above.

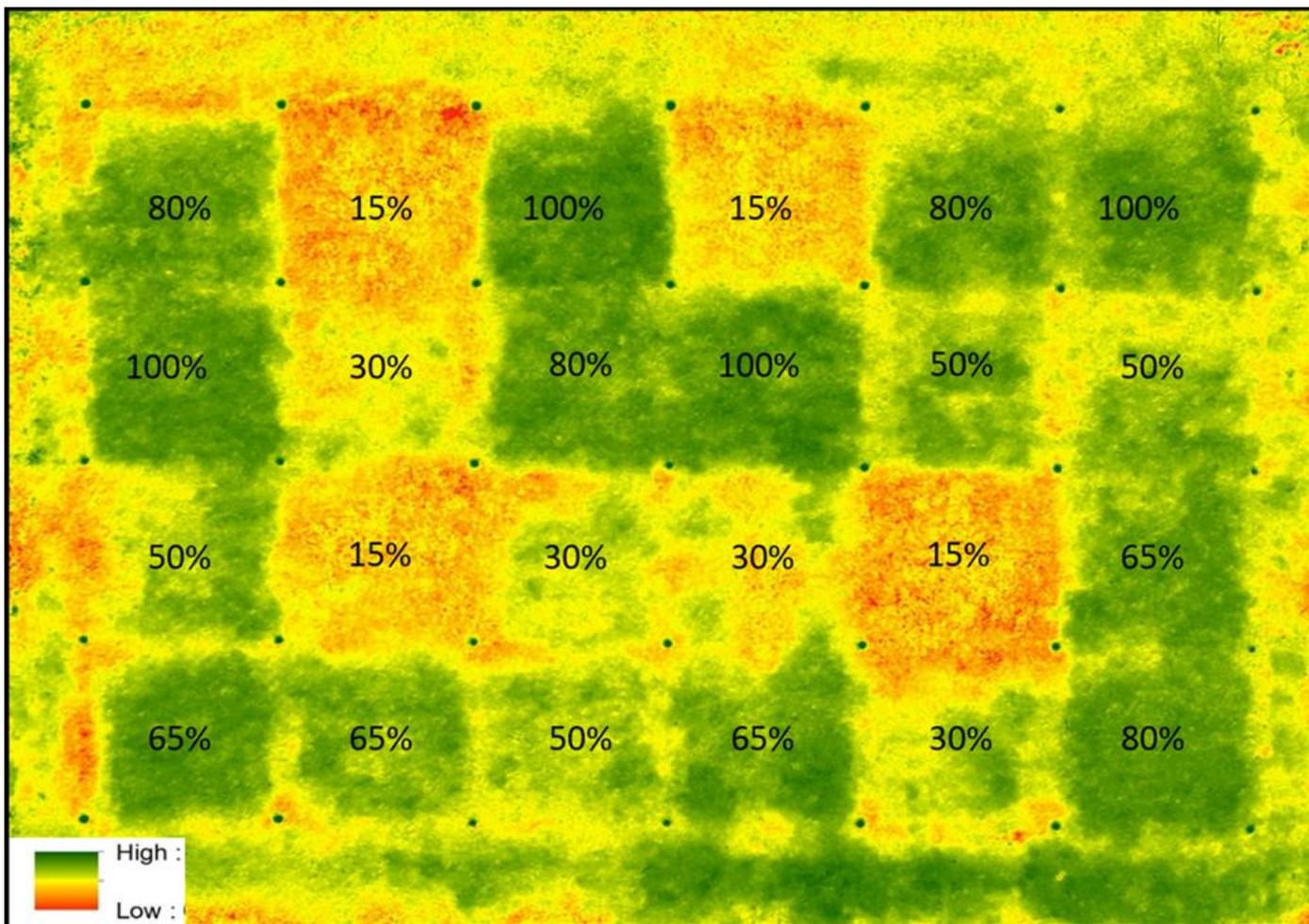


Figure 1. This photo is a near infrared (NIR), color-enhanced image of creeping bentgrass irrigation plots maintained as golf course fairway. The irrigation treatments are the percentages evapotranspiration (ET) replacement. The dark green (High) areas indicate there is more biomass (or healthy turf) in this image created with ArcGIS.

Implications for You

In summary, our preliminary research indicates high resolution remote sensing with sUAS can detect drought stress before it is visible to the human eye. However, from a practical standpoint additional research is needed before remote sensing techniques using sUAS will be ready for intensive management of turfgrass. Even at that, the typical turfgrass manager will require assistance from trained experts because of the high level of skill required to collect and interpret data from sUAS.

Turfgrass UAS Videos and More Information

If you are interested in viewing videos from K-State turfgrass sUAS flights, check out our flight over Firekeeper Golf Course last summer (<https://youtu.be/INEOBVzOvs4>), which includes some great 3D modeling effects (never mind the trees – in reality they looked great but the software didn’t model them well), and a couple of tours of our K-State Turfgrass Research Center from last winter and spring (<http://blogs.k-state.edu/turf/drone-video-of-rocky-ford-turfgrass-research-center-in-manhattan/>; <https://youtu.be/MONjZpesCsw>). I also conducted a webinar for the eXtension UAS Learning Network, available at: <https://learn.extension.org/events/2676>. (Dale Bremer, Deon van der Merwe)

September is Here — That Means Football & Fescue

September is here, and that means it is prime time for football and to fertilize your tall fescue or Kentucky bluegrass lawns. If you could only fertilize your cool-season grasses once per year, this would be the best time to do it.

These grasses are entering their fall growth cycle as days shorten and temperatures moderate (especially at night). Cool-season grasses naturally thicken up in the fall by tillering (forming new shoots at the base of existing plants) and, for bluegrass, spreading by underground stems called rhizomes. Consequently, September is the most important time to fertilize these grasses.



Apply 1 to 1.5 pounds of actual nitrogen per 1,000 square feet. The settings recommended on lawn fertilizer bags usually result in about 1 pound of nitrogen per 1,000 square feet. We recommend a quick-release source of nitrogen at this time. Most fertilizers sold in garden centers and department stores contain either quick-release nitrogen or a mixture of quick- and slow-release.

The second most important fertilization of cool-season grasses also occurs during the fall. A November fertilizer application will help the grass green up earlier next spring and provide the nutrients needed until summer. It also should be quick-release applied at the rate of 1-pound actual nitrogen per 1,000 square feet. (*Jared Hoyle & Ward Upham*)



Business Management Workshop to be held during the Conference

A Business Management workshop will be held on Wednesday afternoon (Dec. 8) during the Conference this year.



Bill Arman & Ed Laflamme from Harvest Landscape Consulting will be conducting this informative session. Bill & Ed are two guys who love the landscape business and the people in it.

Ed started his own business from scratch, built it up, sold it and then wrote a book about how he did it.

[Read Ed's bio here.](#)

Bill worked for and helped grow one of the biggest landscape outfits in the country. He's seen how the big boys do it, how their systems and structures work. So his know-how is rooted in recruiting, hiring, training and growing great people—that along with quality assurance. [Read Bill's bio here.](#)

In this workshop you will find out how to set up a comprehensive recruitment program, including how to source, screen and select the right people. Learn the 7-step process that Harvester Bill has successfully used for the past 35 years to find the best this industry has to offer. You'll learn a whole new "way of life" thinking on recruiting.

Ed will cover *Nothing Happens Without a Sale*. Do you want to double or even triple your sales success? As business owners we sometimes forget the "basics" of what makes a successful sale. As salespeople we sometimes overlook the fact that the "devil is in the details." Whether you wear the owner and sales "hat" in the company, or have a "sales team," you will be "sold" on Ed's insightful and practical approach.

They will also be conducting a *Are You a Fierce Competitor?* Workshop on Tuesday, December 6. Learn how to get aggressive and become a fierce competitor; the 10 traits of truly fierce competitors and how they apply to your business so you can WIN; exactly what areas of your business and personal life need work?; how to get "unstuck" and move your company to the next level to create value in your business so it's a saleable asset.

You won't want to miss this!



Like us on
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[http://www.facebook.com/
pages/Kansas-Turfgrass-
Foundation](http://www.facebook.com/pages/Kansas-Turfgrass-Foundation)

Meet the Candidates Running for the KTF Board of Directors

We have 6 great candidates on the ballot for the KTF Board of Directors this year. A ballot will be mailed out with your Kansas Turfgrass Conference program. We appreciate the interest of these members who are willing to serve on the board of directors for a 3-year term. Be sure to vote!

Dale Cross—Sharp Bros. Seed



Dale is the Eastern Kansas Sales representative for Sharp Bros. Seed Co., Inc., Healy, KS. He is responsible for making sure the customer is satisfied with both the product and the service. He has been in the seed business 45 years, with the last 6 years employed by Sharp Bros. He sells many species of turf grass, with an emphasis on buffalograss. He also has

knowledge on seeding native grasses and forbes used in many of the landscape projects.

“It would be an honor and privilege for me to serve on the KTF Board of Directors. I would like to share the knowledge and experience I have gained in my years in the seed business.”

Steve Dale—JoJacs Landscaping & Mowing



Steve is the owner of JoJac's Landscape & Mowing, Inc. in Haysville which serves the Wichita, Haysville, Derby, and Mulvane area. He has been a past board member, as well as a past president of the KTF in 2009. He has been in the lawn and tree care business for 39 years and has been a member of the KTF for 30+ years. He is also a member of the Kansas Ar-

borist Association. With his past experience in the lawn and tree care industry, as well as past KTF experience, he looks forward to working again with everyone in the Foundation and all the members. He also looks forward to representing his area of Kansas. He thinks this a great organization to be a part of and is looking forward to working with all the members again. Without the KTF, he says his job and your job would be a lot tougher.

Matt Miller—Carey Park GC



Matt is the superintendent at Carey Park Golf Course, Hutchinson. Matt has been involved with the KTF board since 2001 and is a past president. He has been in the golf business since 1989. He received a Bachelor's degree in Horticulture (Turf Management) from K-State in 1994. He worked as assistant superintendent at Willowbend GC in Wichita and Manhattan CC after college followed by a superintendent

position at Augusta CC (Kansas) before moving to Carey Park in 2002. He has been a GCSAA member since 1994 and is a past president of the Kansas Golf Course Supt. Association. He thoroughly enjoys being on the board and working with the great turf professionals, vendors and educators in Kansas. He loves meeting all the new members and has made some great contacts and friends through the KTF and would like nothing more than to serve the membership by remaining an active board member. “My current term is up and I would greatly appreciate the opportunity to be elected back to the KTF board.”

Ron Reese—MacDonald GC



Ron is the Golf Course Superintendent at MacDonald Golf Course in Wichita. He has been in the golf course business since 1984. He currently serves on the KTF Board and has been President of the Kansas Golf Course Superintendents Association. “I first attended the KTF Turf Confer-

ence in 1985 and quickly realized it was a great learning opportunity to advance my career. It has been rewarding and an honor to serve the membership for the last three years. I would look forward to continue to serve on the Board of Directors as we work to maintain and improve the great education conference and support the turf and horticulture industry in Kansas .

Nathan Shelton, Hutchinson Community College



Nathan is the Lead Groundskeeper for Hutchinson Community College. He is in charge of all things dealing with the upkeep of the Community College. He graduated with his BA in Sports Administration from Central Christian College in McPherson. “My love for grounds came from playing baseball because the team was in charge of field maintenance. To

me, the finished field was something to be proud of.” Nathan has also started one of the best Demo Gardens in the state with the help of the Reno Master Gardeners. “I love working with the members of the Reno County Master Gardeners because of all the knowledge they have to share.” He is excited to have a chance to be on the board of the KTF.

Rodney St. John—Ryan Lawn & Tree



Rodney is an Agronomist at Ryan Lawn and Tree. His duties include researching and developing the turfgrass program, and training proper turfgrass maintenance to employees, customers and the general public. Rodney has been in the turf industry for more than 25 years. He has worked on

golf courses, sold seed, fertilizer, and chemicals to golf, sports and lawncare, and managed the Turf Research Station at Iowa State University. He has a passion for green, healthy turfgrass. While achieving his PhD at ISU and serving as Asst. Professor and State Turfgrass Extension Specialist for K-State, he focused his research and educational programs on topics that promote and grow the turfgrass industry,

I feel like I would be helpful serving on the KTF Board of Directors because I have worked with and in multiple disciplines of the turfgrass industry. I understand the issues and problems that are faced by the various segments of the KTF membership. I truly enjoy helping people, and I would be honored and excited to help serve the KTF members with my diverse knowledge and experience.

Kansas Turfgrass Field Day August 4, 2016



Broadleaf Weed Control and Pre Crabgrass Control Video

In August, the turfgrass team held the annual Kansas Turfgrass Field Day in Manhattan, at the Rocky Ford Turfgrass Research Center. At one of the stops Dr. Jared Hoyle talked about new products that are on the market for post-emergent broadleaf weed control and pre-emergent crabgrass control. If you couldn't make it out to the field day, here is a short little video about what you missed.

https://www.youtube.com/watch?v=8f-68_H91Ho



Seeding Buffalograss into Fescue Video

Are you thinking about converting your tall fescue lawn into buffalograss? If you are, new research is currently being conducted at Rocky Ford Turfgrass Research Center in Manhattan to pin down the best herbicide application timing to reduce the amount of time that you don't have turf in your lawn.

Check out the video here of KSU Turfgrass Research Technician, Jake Reeves, discussing this research and how it will impact turfgrass areas across Kansas.

https://www.youtube.com/watch?v=dVpydB0E_EA



Sponsorship Opportunities Available During the Kansas Turf Conference in conjunction with KNLA

In addition to booth space, vendors have additional sponsorship opportunities this year. This is a perfect way to increase your company's visibility!

Birdie Sponsor - \$250

- Your company sign at one refreshment break location *one day* during the conference.
- Materials can be displayed at table.
- Company logo on sponsor sign in registration area.

Eagle Sponsor - \$500

- 2-min. presentation in breakout session about your company.
- Your company sign at one refreshment break location on *2 days* of the conference.
- Materials can be displayed at table.
- Company logo on sponsor sign in registration area.

Albatross Sponsor - \$1,000

- 3-min. presentation in General Session about your company.
- Lunch sponsor on Wed., Dec. 7. Company sign by buffet line in trade show area.
- Your company sign at *all* refreshment break locations during the 2 ½ day conference.
- Materials can be displayed at table.
- Company logo on sponsor sign in registration area.

For more information, got to [Exhibitor Information 2016](#)

Check out the K-State Turfgrass Blog at:

www.KSUTurf.org/blog/

Featured Speakers at the 66th Annual Kansas Turfgrass Conference *in conjunction with KNLA*



Dr. Jim Brosnan is the head of the turfgrass weed science research and extension program at the University of Tennessee. His research focuses on effective and economical strategies for broadleaf and grassy weed control in various turfgrass systems, including golf courses, athletic fields and residential landscapes. He is also interested in the effects of plant growth regulators on both warm- and cool-season turfgrasses.



Dr. Adam Thoms is an Assistant Professor in the Horticulture Dept. at Iowa State University. His research focus is on effective and economical management strategies for commercial turfgrass managers. Emphasis is on the performance of turfgrass subjected to various management techniques, investigating athletic field performance and safety, and investigating root zone construction performance.



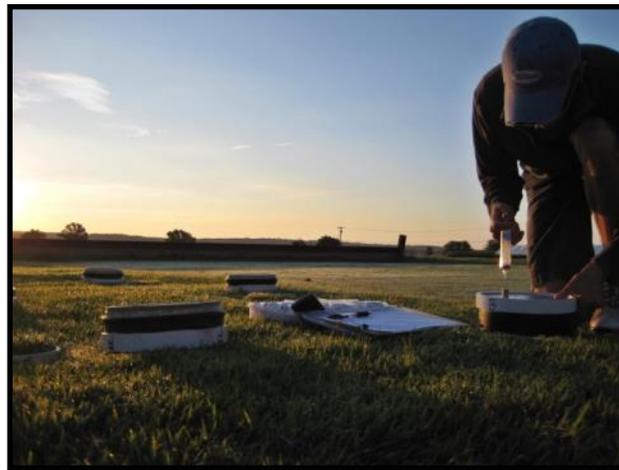
Dr. Paul Vincelli is an Extension Professor and Provost's Distinguished Service Professor in the Plant Pathology Dept. at the University of Kentucky. His extension and research focus is on management of disease of turf, forages and forest trees, international agriculture and molecular diagnostics.



Dr. Sarah White is an Associate Professor of Horticulture at Clemson University. Her research focus is related to water management, water quality, ecologically-based treatment technologies, and integrated pest management in the green industry.

The 2016 Turfgrass Research Reports Online

This year we have lots of new information from the release of a new zoysiagrass to unmanned aircraft systems for drought monitoring.



[Release of KSUZ 0802 Zoysiagrass](#) J. Fry and Ambika Chandra

[Nitrous Oxide Emissions and Carbon Sequestration in Turfgrass: Effects of Irrigation and Nitrogen Fertilization \(Year 1\)](#) R. Braun, D. Bremer, and J. Fry

[Small Unmanned Aircraft Systems Detect Turfgrass Drought](#) D. Bremer and Deon van der Merwe

[2013 National Turfgrass Evaluation Program Bermudagrass Test: 2015 Data](#) L. Parsons, J. Griffin, and J. Hoyle

[2012 National Turfgrass Evaluation Program Tall Fescue Test: 2015 Data](#) L. Parsons, M. Kennelly, J. Griffin, and J. Hoyle

[Influence of Glyphosate Timings on Conversion of Golf Course Rough from Tall Fescue to 'Sharps Improved II' Buffalograss](#) J. Reeves, J. Hoyle, D. Bremer, and S. Keeley

[Late Pre-Emergent Control of Annual Bluegrass with Flazasulfuron & Indaziflam](#) J. Reeves and J. Hoyle

[Evaluating the Effects of Simulated Golf Cart Traffic on Dormant Buffalograss and Turfgrass Colorants](#) E. Alderman, J. Hoyle, J. Fry, and S. Keeley

[Preventative Control of Brown Patch with Select Fungicides](#) E. Alderman, J. Reeves, and J. Hoyle

[Development of Cold Hardy, Large Patch Resistant Zoysiagrass Cultivars for the Transition Zone](#) Mingying Xiang, J. Fry, and M. Kennelly

[Evaluating Zoysiagrass-Tall Fescue Mixtures in Kansas](#) Mingying Xiang, J. Fry, and M. Kennelly

KTF Founders Society Members

*Bayer Environmental Science
Flint Hills National Golf Club
Floratine Midwest
Gard'N Wise
Merrin Godfrey
Heart of America Golf Course Supt. Assn.
Jim Heinze
Kanscapes, Inc.
Kansas City Country Club
Kansas Golf Association
Kansas Golf Course Superintendents Assn.*

*McPherson College
Prairie Dunes CC
Professional Grounds Management
Ryan Lawn & Tree
Gregg Snyder
Syngenta
Don Tannahill
Turf Professional Equipment
Williams Lawn Seed*

A \$1,000 contribution (at once, or over time) is all that is required to become a KTF Founder. Our goal is to recruit a total of 100 Founders over the next several years. These funds are untouched with hope that one day accumulated interest will help to support turfgrass research.

For more information on how to become a KTF Founders Society member, contact Jack Fry, Horticulture Division, Throckmorton Hall, Kansas State University, Manhattan, KS (785) 532-1430 jfry@ksu.edu

Equipment Dealers that Support K-State Turf for Use at Rocky Ford

Excel Sales/Hustler Turf Equipment
Out-front Rotary Mower

Z-Spray Sprayer/Fertilizer Spreader
John Deere Landscapes &
L.T. Rich Products, Inc.

Kansas Golf & Turf
Electric Greens Mower
Smithco Sprayer

Professional Turf Products
Toro Triplex Greensmower

Van Wall Equipment Co./John Deere
John Deere Triplex Tee Mower

If your company is interested in supporting
K-State turfgrass research by providing equipment, contact Cliff Dipman at
(785) 539-9133.