

The 25th annual National No-Tillage Conference on Jan. 10-13, 2017, in St. Louis, Mo., will be nothing less than a very special occasion — and we want to celebrate this milestone with you!

You won't want to miss this!

Celebration Details:

- Expansive No-Till 'Walk of History'
- Special Seminar with 'Machinery Pete'
- Exclusive Members-Only Workshop on Managing Soil Microbes
- ✓ 25th Anniversary Keepsake Gift
- 25-Year NNTC Farmer Panel Discussion
- Recognition of Living No-Till Legends Worldwide

...AND MUCH MORE!









Impactful Learning! Essential Networking!

Co-Sponsored by No-Till Farmer and These Leading No-Till Suppliers:





























Soak Up Game-Changing No-Till Knowledge During 4 Days of Invaluable Learning in St. Louis!

Learn, Focus and Succeed: That's what the National No-Tillage Conference is about. And this year, we're celebrating NNTC's 25th year of providing actionable information to help your no-till operation be more profitable.

Behind the theme, "Quarter Century of No-Till Learning," we've lined up more than 30 top-notch no-tillers, agronomists, ag engineers, crop consultants and researchers to deliver innovative ideas to help you be more effective and get the most out of your no-till system.

This 25th annual National No-Tillage Conference offers 13 general sessions, 24 No-Till Classrooms and 70 No-Till Roundtables. Plus, state pesticide recertification and Certified Crop Advisor credits are available.

Just as important is the opportunity for you to profit from unlimited hallway networking with the most innovative and forward-thinking minds in no-till during this January event in St. Louis that kicks off the 2017 crop-production season. It's a can't-miss, silver-anniversary event!

TUESDAY, JANUARY 10...

Noon to 7:30 p.m. "No-Till Registration Time."

2:00 to 5:00 p.m. "Special Members-Only Workshop — Managing Soil Microbes with Wendy Taheri."

(This workshop, limited to 60 attendees, costs just \$75 to attend and is available only to paid registered NNTC attendees. Sign up for this workshop using the form on Page 12.)

Wendy Taheri of Pelham, Ga.-based TerraNimbus will lead you through some of the mechanisms that arbuscular mycorrhizal fungi (AMF) use to protect plants. AMF induce salinity and drought tolerance in plants and protect them from a broad range of diseases. AMF specialize in the uptake of



Wendy Taheri

phosphorus, making organic phosphorus and other typically unavailable forms of phosphorus more available by transferring it directly

The microbial ecologist will also explain how management decisions with tillage, insecticides, herbicides, fungicides, tiling and seed coatings affect AMF and, ultimately, the quality and fertility of your farm's no-till soils. She will also discuss soil microbial diversity and the role it plays in plant protection.

3:30 to 5:00 p.m. Special Bonus with 'Machinery Pete:' "Putting a Proper Value on Used No-Till Equipment."

Plan to arrive in St. Louis to hear Greg Peterson, a.k.a., "Machinery Pete," provide his expert analysis and perspectives on the value and market for used no-till planters and drills, sprayers, harvesters and other equipment, and discuss which units look to be gaining or losing value in 2017.

Peterson will also delve into the market for used precision ag equipment, including how technology, specifications and other options influence the value of used machinery.

Machinery Pete has been researching and tracking machinery auction prices since 1989 and also works with a network of dealers across the U.S. to Greg Peterson provide an industry-leading listing service, which now features more

data and a curated network of more than 1,000 auction firms. The founder and principal of Machinery Pete LLC, Peterson publishes the Quarterly Used Values Index report for the financial community, serves as the multimedia equipment contributor for Farm Journal Media, and produces the weekly Machinery Pete TV program distributed on RFD-TV and more than 30 local TV affiliates. In working with thousands of farm equipment dealers, MachineryPete.com is the fastest growing farm equipment website.

than 105,000 listings on MachineryPete.com. Machinery Pete's price

database of more than 500,000 prices is sourced through firsthand

6:30 to 9:30 p.m. "NNTC Welcome Reception."

Get checked into your hotel room and then get set for a relaxing evening with light dinner food and drinks (as well as some engaging discussion with your fellow no-tillers). Our annual Welcome Reception is made possible with the support of Farmers Edge, Harvest International, Midwest Bio-Tech and Montag Mfg. This is a perfect way to network with farmers, sponsors and other conference attendees before you start absorbing 3 days of no-till tips and techniques on Wednesday.

WEDNESDAY, JANUARY 11...

6:30 a.m. to 9:00 p.m. "No-Till Registration Time"

8:40 a.m. "Official Kickoff to the 25th Annual National No-Tillage Conference."

Join us in the Grand Ballroom as the No-Till Farmer staff sets the stage for 3 days of intensive no-till learning.

8:45 to 9:30 a.m. "Lessons from 55 Years of No-Tilling — and Why the 'Four Ps' Matter."

The no-till revolution started more than five decades ago when Harry Young Jr. no-tilled corn on 0.3 acres of farmland in 1962. Now, Harry's son John and grandson Alexander are carrying on the tradition on their Herndon, Ky., farm, where



John & Alex Young

they're no-tilling corn, double-cropped soybeans and wheat, and introducing extensive irrigation to their farming practices.

As we kick off a celebration of the National No-Tillage Conference's 25th anniversary, John and Alex will share the newly recognized advantages of no-till, some observations about what has changed in the last 55 years and explain why the 'four Ps' — Profit, Production, Progeny and Posterity — are so important.

9:35 to 10:20 a.m. "Successful Past, Bright **Future with No-Till and Cover Crops.**"

For Ray McCormick, the road to continuous notill was paved through his own on-farm experiences and innovation — and more than a few mistakes - but his operation has since progressed to a notill focus on every acre, every year.

The Vincennes, Ind., no-tiller will share how he's successfully no-tilled corn and soybeans on his 2,400 Ray McCormick





tillable acres for nearly three decades, worked through challenges with a new no-till planter and how he expanded his cover crop program to benefit 100% of his farm ground. McCormick — who manages 2,000 acres of woodlands and wetlands on his farm — will also discuss how no-till crop production works hand in hand with wildlife habitat enhancement practices and reflect on the changes he's seen in no-till practices and technology on his operation since he spoke at the inaugural NNTC a quarter century ago.

10:35 to 11:35 a.m. "Choose from 6 **High-Powered, Actionable No-Till Classrooms.**"

Select one of six outstanding No-Till Classrooms to absorb more specialized learning. Send others from your farming operation to separate sessions to broaden your no-till knowledge.

No-Till Classroom #1...

"Digging Deeper into Cover Crop Benefits."

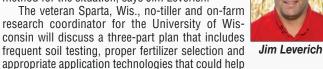
Cover crops have a significant impact on more than just soil quality and tilth, but the benefits might not be apparent to the naked eye, says Ray Weil.

The University of Maryland soil scientist will discuss how certain cover crops improve access to water and nutrients, keep more nitrogen on your farm and boost soil biological processes in the deeper layers of your soil profile. He will also discuss on-farm research results on how covers benefit nitrogen management compared to fallow ground.

No-Till Classroom #2...

"Boosting Productivity in Your No-Tilled Soils with a More Efficient, Effective Fertility Program."

With profit margins running tighter, it's more important than ever for no-tillers to utilize expensive fertilizers more efficiently. The best way to do that is by choosing the right product and application method for the situation, says Jim Leverich.



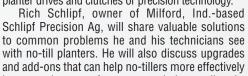


you boost soil productivity and allow crops to access nutrients more efficiently — all while reducing the risk of leaching and waste.

No-Till Classroom #3...

"Rebuilding Your Planter for More Effective No-Tilling."

Many no-tillers are looking for ways to add technology and improve the performance of their planter rather than spending money on a new one — whether it's fertilizer systems, row cleaners, closing wheels, planter drives and clutches or precision technology.





Rich Schlipf

increase planter performance, optimize seeding depth, apply fertilizer with the planter and get plants off to a stronger start.

No-Till Classroom #4...

"Turning Mountains of Precision Data into an Asset for Your No-Till Operation."

Sorting through all the precision data coming at you may be frustrating at times, but there is actually real value in getting comfortable with intense data management on your farm, says Jeremy Wilson.

The technology specialist at Crop IMS — who also no-tills 1,200 acres of corn, wheat and soybeans near Olney, III., with his father Wade — says the quality of data is crucial and it starts at the configuration stage. Wilson will discuss best practices for collecting, sorting through and using precision data, as well as calibrating equipment properly and confirming data accuracy. He'll also cover the opportunities no-tillers can take advantage of working with cloud-based farm data systems.



Jeremy Wilson

No-Till Classroom #5...

"Getting Your Cover Crops in on Time — at \$13 an Acre."

Ray McCormick's farm was thrust into the limelight in 2012 after he pioneered the use of a Gandy air seeder, fastened to his corn head. to seed annual ryegrass mixes on-the-go during corn harvest. The Vincennes, Ind., no-tiller has continued to expand the practice as he seeds a cover crop mix each fall on 100% of his 2,400 acres of corn and soybeans.

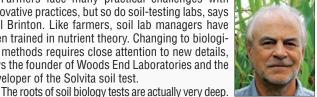
McCormick will share in-depth details about the setup, seeding rates and operational methods for this two-for-one harvesting and seeding tool, how he's addressing challenges with terminating the covers in spring and share tips for managing residue properly during harvest for optimal cover crop and cash crop emergence.

No-Till Classroom #6...

"Soil Biology and Respiration — What is it and Why Measure it?"

Farmers face many practical challenges with innovative practices, but so do soil-testing labs, says Will Brinton. Like farmers, soil lab managers have been trained in nutrient theory. Changing to biological methods requires close attention to new details. says the founder of Woods End Laboratories and the developer of the Solvita soil test.

Brinton will explain what soil respiration means as an



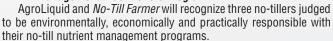
Will Brinton

indicator of microbial activity and show its relevancy for residue decomposition, nutrient storehouses and soil aggregation. He'll also discuss practical guidelines for monitoring soil changes that result from better farming practices like no-till and cover crop seeding.

11:50 a.m. to 1:15 p.m. "The Annual NNTC **Luncheon with Support from AgroLiquid."**

(Included in your no-till conference registration fee.)





The fertility practices and techniques utilized by these no-tillers — recognized as Responsible Nutrient Management Practitioners - will provide you with valuable ideas to consider in your own no-till operation.

Harry Young Jr. Memorial Lecture Series (Made possible with the support of Thurston Mfg.)



1:30 to 2:45 p.m. "Deciphering the Chatter: **Uncovering How Plants Communicate."**

Plants may seemingly only be furniture, fiber and food. But what if plants had the ability to talk to allies and enemies? Or were able to recognize close relatives and treat them different than strangers? What if plants had the ability to integrate information and perform complex behaviors? They can and they do, says J.C. Cahill.

The experimental plant ecologist at the University of Alberta — most well-known for being the lead sci-



J.C. Cahill



entist and public face of the documentary, "What Plants Talk About," on the PBS series Nature — will highlight leading-edge research in no-till plant behavior and discuss how this may change both your understanding of plants and why agriculture is beginning to pay attention.

2:45 to 3:15 p.m. "Networking/Refreshment Break."

Take a deep breath, grab something to drink and discuss the things you've already learned at our 25th anniversary event.

3:20 to 4:20 p.m. "Choose from 6 More No-Till **Classrooms Chock-Full of Learning Opportunities.**"

Select one of six outstanding No-Till Classrooms to absorb more specialized learning. Send others from your farming operation to separate sessions to broaden your no-till knowledge.

No-Till Classroom #7...

"Rethinking Your Tire Options to **Reduce Compaction in No-Tilled Fields."**

As farm equipment sizes and weights continue to increase, problems with compaction can rob notillers of yield and profit potential. But gaining a better understanding of modern tire technology can help you reduce or eliminate these problems, says Scott Sloan.

The product manager at Titan International will discuss the causes of compaction; proper inflation pressures for tractor, combine, sprayer, implement and grain cart tires; high-flex technologies that allow for bigger footprints and lower pressures; new radial



Scott Sloan

tire solutions for reducing compaction from implement tires; and other potential game-changing tire setups.

No-Till Classroom #8...

"Two Practical, Profitable Ways to Get Cover Crops Into Your No-Till System."

Planting cover crops into corn between the V4 and V7 stage seems to defy logic for many no-tillers, but this practice may become the norm in the northern Corn Belt for growers wanting to diversify their cover crop program and improve fall growth.

Manager for the Soil Health Part-



Dan Towery

Hans Kok

nership based in Indianapolis, and Dan Towery, no-till consultant with Ag Conservation Solutions in Lafayette, Ind., will discuss the benefits of interplanting cover crops. The conservation experts will also highlight the benefits of adding wheat to your rotation and planting an 8- to 15-way cover crop cocktail after wheat harvest, and how that can potentially produce double-digit increases in corn and soybean yields while cutting your applied nitrogen rates in half.

No-Till Classroom #9...

"Improving Your Chances of Raising **Profitable No-Tilled Corn, Soybeans."**

When it comes to no-tilling corn and soybeans profitably, veteran Alpha, III., no-tiller Marion Calmer has found the highest yield isn't always the most profitable. As a result, he makes decisions regarding inputs based on facts and financial sense.

Drawing on 32 years of independent on-farm research at his Agronomic Research Center, Calmer will discuss the yield advantage necessary to justify the cost of planting high populations at today's Marion Calmer



grain prices. He'll also discuss yield and soil health impacts he's seen from applying dry phosphorus and potassium fertilizers over a 10-year period, and how residue management in no-till is the foundation for a profitable growing season.

No-Till Classroom #10...

"Using No-Till, Covers and Livestock to Tame Volatile Weather Challenges."

Where Egon Zunckel farms 3 hours south of Johannesburg, South Africa, weather extremes are part of the norm — from droughts to flooding rainstorms, and howling, hot mountain winds to freezing cold and rain.

But Zunckel will discuss how 20 years of continuous no-till practices have helped him mitigate poor water infiltration, water and wind erosion, dam silting and stagnant yields on his 4,500 acres of irrigated and dryland corn, wheat and soybeans. He'll also share how seeding oat and radish cover crops



Egon Zunckel

and introducing livestock on 5,400 grazed acres helps him utilize large volumes of corn and cover crop residue.

No-Till Classroom #11...

"Using a Full Complement of Conservation Tools for More Profitable No-Tilling."

For Seth Watkins, controlling wind and water erosion is a constant challenge on his 3,000 rolling, undulating acres, which support both forage and silage crops and 600 head of Hereford and Angus brood cows. But the fifth-generation farmer is conquering those challenges with a well-stocked toolbox of no-till and conservation-minded measures.



Seth Watkins

The Clarinda, Iowa, grower will discuss how his diverse system of prairie strips and buffers, native grasses, terraces, cover crops, crop rotation and

rotational livestock grazing is protecting his Drift Plain soils, building organic matter more quickly and providing positive economic returns.

No-Till Classroom #12...

"Getting Started with Growing a Cover Crop as a Grazing Crop."

Grazing livestock on cover crops can improve soil health and be lucrative, although finding a point to start from can be difficult. But getting a better grasp of the concept before the seed is ordered to when the livestock are turned out in the pasture can

help you optimize this system, says Jim Johnson. The Noble Foundation soils and crops consultant will help no-tillers gain an understanding of the challenges and issues that can arise from

grazing cover crops, learn what key points need



Jim Johnson

to be planned in advance and how to pick the right cover crop for your grazing goals. He'll also share knowledge gained from research and experience using covers in forage-based beef production systems in Oklahoma and north Texas and discuss various considerations, agronomic practices and lessons learned.

4:30 to 5:30 p.m. "20 Super No-Till Roundtables."

Select from 20 No-Till Roundtables where each attendee can ask questions, discuss challenges and contribute practical, field-proven ideas on a specific topic. Some longtime conference attendees say these "one-of-a-kind idea swaps" are well worth the cost of attending the conference all by themselves.

Send others from your farm or family to different sessions to capture even more learning.



- 1. Getting Better Soybean Stands, Yields with No-Till Drills
- Setting Up No-Till Planters for Superior Soybean Stands
- **Exploring Possibilities for No-Tilling Vegetables**
- Successful Sidedressing Strategies for No-Tillers
- Safeguarding No-Tilled Fields from Seed, Soil Diseases 5.
- 6. Proven Methods for Boosting No-Tilled Alfalfa, Forage Stands
- 7. Exclusively For Case IH Planter Owners
- Making a Twin Killing at Harvest with Twin Rows
- 9. Hitting the Sweet Spot with Strip-Till Berms
- 10. The Lowdown on Setting Up Non-GMO Cropping Systems
- 11. Cover Crop Strategies in the Northern Plains, PNW
- 12. Cover Crop Strategies in the Mid-South, Southeast
- 13. Cover Crop Strategies in the Northeast, Mid-Atlantic
- 14. Cover Crop Strategies in the Great Lakes, Ontario
- 15. Cover Crop Strategies in Ohio
- 16. Cover Crop Strategies in Indiana
- 17. Cover Crop Strategies in Illinois
- 18. Cover Crop Strategies in Iowa
- 19. Cover Crop Strategies in Missouri
- 20. Cover Crop Strategies in the Southern & High Plains

5:30 to 7:15 p.m. "Dinner Time."

Enjoy some of the best restaurants in downtown St. Louis, while discussing today's topics and networking with fellow no-tillers.

7:20 to 7:25 p.m. "National No-Tillage Conference **Outstanding Speaker Awards.**"

You told us by your vote which presenters had the best sessions in 2016. We take a moment to recognize and thank them.

7:25 to 8:10 p.m. "Making Physics, Chemistry and Biology Work Together in Your No-Tilled Soils."

For too long, farmers have been sold the idea that soil management

was mainly about making interventions that were either physical, such as tillage, or chemical, such as lime, pesticides and fertilizers. Finally, over the past few years, they're being encouraged to think about the biology in their soils as well, says Ray Weil.

But physics, chemistry and biology are integrated, not separate, in the soil ecosystem — and not just in the top 6-8 inches of soil, says the University of Maryland soil scientist. When they all work together, soil functions throughout the profile can be optimized



Ray Weil

with less effort and cost. Weil will discuss how good soil biology also improves the physics and chemistry of the soil profile and provide tips on what growers can do to nurture this relationship.

8:15 to 9:00 p.m. "Making Sense of Cover Crop Mixes."

Cover crop mixes are becoming very popular with no-tillers as they seek to improve biodiversity on their farm. But large mixes are a "shotgun" approach that can get expensive — especially with current low grain prices, says Mike Plumer.

The retired University of Illinois Extension agronomist will offer no-tillers some practical advice on what they can accomplish with cover-crop cocktails, or when a monoculture or simpler two- or three-way mix is the best option. The Conservation Agriculture



Mike Plumer

consultant will also discuss the importance of farmers identifying what soils need and what their goals are before making decisions.

9:00 to 9:15 p.m. "Go Ahead — Ask Those Tough No-Till Questions of Your Fellow No-Tillers."

Come up with any critical no-till question and the No-Till Farmer staff will seek someone with a solution. This session will reveal the benefits of networking in the hallways with fellow attendees

(If you've got a no-till question that's been gnawing at you, add it to the registration form on Page 12 when you register or email John Dobberstein at idobberstein@lessitermedia.com.)

THURSDAY, JANUARY 12...

6:30 a.m. to 6:00 p.m. "No-Till Registration Time."

Get registered! Pick up your conference materials, including FREE Special No-Till Reports valued at \$132.70.

7:00 to 8:00 a.m. "Early Bird No-Till Breakfast Sponsored by Syngenta and Vibrance Seed Treatment."

Enjoy the buffet breakfast sponsored by Syngenta before a panel of crop experts helps you prepare for the upcoming season to get the most syngenta* out of your no-tilled crops.



8:00 to 8:45 a.m. "Straight from the Field: **Boosting Your No-Till Rooting Power."**

√ Vibrance While underground root systems are out of sight, they should always be top of mind for growers, whose yields depend on healthy roots. An

estimated 80% of all plant problems start underground, experts say.

Soil-borne pathogens, underground insects and nematodes all threaten healthy root structures — but since they're hidden from the human eye, the effects of these pests often go unnoticed until the end of the season, when damaged roots can result in significant crop damage and yield loss. As genetics and traits continue to advance, seeds are becoming more and more valuable. But from the moment a seed is planted, nematodes, insects and diseases threaten to eat away at a grower's seed investment. The best way to protect your investment is to shield the plant early with a seed treatment.

To help growers safeguard plants and yields, Syngenta has assembled a panel of crop experts to share insights straight from the field about why seed treatment decisions are important — especially in no-till.

9:05 to 9:50 a.m. "Seeing 'Green' Brings **Brighter, More Profitable No-Till Future."**

A few years ago, Johnny Hunter's farm might have looked like many others in the Missouri Delta with heavy tillage, raised beds and furrow irrigation used to raise corn, soybeans, popcorn, cotton, rice and wheat. But poor water utilization during the drought of 2012 convinced Hunter there had to be a better way.

The Essex, Mo., grower made critical changes to his operation by eliminating the beds, going to 100% no-till, seeding multispecies cover crop mixes, planting 'green' and pioneering a more conservative approach to irrigation. Hunter will discuss how he's tying these different puzzle pieces together to improve soil health and profitability in the Bootheel of Missouri.

9:55 to 10:40 a.m. "Finding and Fixing **Nutrient Imbalances in No-Tilled Crops.**"

Finding the correct nutrient balance in no-tilled soils can be a major challenge as growers deal with the fertility needs of today's high-yielding corn, soybeans and wheat, says Neal Kinsey.

The fertility expert from Charleston, Mo., and author of Hands-On Agronomy will use real-world examples of soil reports from his lab to discuss nutrient imbalances that were found and discuss what steps should be taken to resolve these excesses or deficiencies, whether it's with heavy clays, sandy loams or something in between.



Neal Kinsey



10:55 to 11:55 a.m. "15 Even Better No-Till Roundtables."

Once you determine which of the following 15 sessions to attend, send others from your farm to other sessions so you can later swap dozens of great ideas that you can add to your 2017 no-till operation.

- 21. No-Tilling with Canola, Sorghum & Other Plains Specialty Crops
- 22. Slashing Your Fertilizer Budget with Biosolids, Sludge
- 23. Exploring Synergies with No-Till and Livestock
- 24. Lime: Identifying the Right Source for More Productive Fields
- 25. Fighting Off Slugs, Rootworms, Tough No-Till Insects
- 26. Narrowing Down Are 12-, 15- or 22-Inch Corn Rows Better?
- 27. Achieving the Best of Both Worlds with Organic, No-Till
- 28. Finding More with Less When Irrigating
- 29. Shop Wars: Swapping Ideas for Build-It-Yourself Equipment
- 30. Putting Drones to Work on Your No-Till Operation
- 31. Controlling Voles, Varmints and Other Problem Critters
- 32. Conquering Conundrums in Continuously Strip-Tilled Corn
- 33. Making More Sense (and Cents) with Priceless Data
- 34. Figuring Out Solutions for Foliar Diseases, Plant Viruses
- 35. Tips, Tweaks to Double-Cropping Systems for Better Returns

11:55 a.m. to 1:00 p.m. "Lunch On Your Own."

Enjoy lunch at the Hilton at the Ballpark or restaurants within easy walking distance of the hotel before gearing up for an afternoon general session of no-till veteran farmers.

1:05 to 1:50 p.m. "Reaping Long-Term Success with Cover Crops and Precision Fertility."

Some critics say tillage is a necessary evil in the colder northern climates in the U.S., but Joe Breker has been proving them wrong for decades and beating county yield averages as well.

The Havana, N.D., grower — who spoke at the inaugural National No-Tillage Conference in 1993 — will share the secrets to his 36 years of success no-tilling and bio strip-tilling 3,000 acres of corn, soybeans, seed radishes and spring or winter wheat, along with an array of cover crops.



Joe Breker

Breker will also share how he's slashed input costs by improving organic matter, banding fertilizer, applying ESN and seeding cover crops. He'll also reflect on what's changed for the better on his farm in the last 25 years since the NNTC debuted.

1:50 to 2:00 p.m. "25th Annual National No-Tillage Conference Sponsor Recognition."

Join us in thanking our sponsors whose generous support of the 2017 National No-Tillage Conference makes it possible to bring you the most highly informative no-till knowledge event available today.

2:00 to 2:45 p.m. Silver Anniversary Panel: "Reflecting on 25 Years of No-Till Learning."

Six individuals — Allen Berry, Allan Brooks, R.D. Wolheter, Bryan Von Holten, Scott Davidson and Randall Reeder — have attended all 25 National No-Tillage Conference events since it debuted in 1993 in Indianapolis. There's no doubt they've gone home with plenty of actionable tips and information, and a few laughs and indelible memories as well.

No-Till Farmer editor Frank Lessiter — also a member of the 25-year club — will host a panel discussion with these no-till veterans as they discuss why no-till practices are important to them, how they put more dollars in their pocket, the best ideas they've gone home with after attending and the biggest no-till mistake they've ever made (and ones they hope they can help you avoid).

2:45 to 3:15 p.m. "Networking/Refreshment Break."

Continue discussions from this afternoon's general sessions and get ready for another round of tip-filled no-till classrooms and interactive roundtables with refreshments courtesy of Precision Planting.



3:20 to 4:20 p.m. "Choose from 6 More Top-Notch No-Till Classrooms."

You've got six more intriguing no-till classrooms to choose from to help you make a big impact on your 2017 cropping operation.

No-Till Classroom #13...

"Tips for Terminating Cover Crops More Effectively."

For no-tillers, seeding cover crops effectively is often just the first step. Effective termination is another important task. Mistakes in this area can lead to serious headaches at planting time, says Mike Plumer.

The retired University of Illinois Extension agronomist will provide detailed, actionable tips and information for no-tillers on killing popular cover crops like annual ryegrass, cereal rye, hairy vetch and others the right way. He will outline how weather patterns, seed varieties, growth stages and herbicide choices factor in. The consultant for Conservation Agriculture will also discuss the critical problems Variety Not Stated (VNS) seed can cause at termination time and how to avoid them.

No-Till Classroom #14...

"Putting Continuous No-Till, Covers to Work in the Southern Plains."

Alan Mindemann sees plenty of challenges raising consistent yields with the unpredictable weather and limited moisture often seen in western Oklahoma. But Mindemann has successfully added canola, sunflowers, millet and other specialty crops to his rotation, as well as diverse cover crop mixes, as he farms 3,000 acres near Apache.



Alan Mindemann

Raising as many as 10 crops in a year — some for seed — Mindemann will share the benefits he's seen from 20-plus years of continuous no-till and

crop diversification. He'll also discuss how he tracks available moisture and herbicide applications as he makes rotation decisions and how he configures his planting and seeding equipment to no-till various crops more effectively.

No-Till Classroom #15...

"How Plants Find Their Food the Behavioral Science Underlying Plant Nutrition."

Like all living organisms, plants require proper nutrition to thrive. The traditional view of plants is that they're factories that will maximize output if they're given the right inputs. This approach is often successful, but history also shows plants have survived for millions of years because they have natural abilities to feed themselves, says J.C. Cahill.

The experimental plant ecologist at the University of Alberta will highlight new areas of research in the plant-soil interface, discuss root movement and foraging, interactions with mycorrhizae and a number of related topics about plant behavior.

No-Till Classroom #16...

"Adding Water Management to the No-Till Toolbox."

In lean times, having control over moisture for crops could be the difference between financial survival or death, says John Young. So the Herndon, Ky., no-tiller and his son, Alexander, introduced irrigation and tiling to their no-till operation several years ago as a way to boost profitability.

The Youngs will share data on how their considerable investment in irrigation and tiling has paid off in terms of yields and profits, and how those benefits are dovetailing with the already accruing advantages of 50-plus years of no-tilling.



No-Till Classroom #17...

"Using Cover Crops, Biological Processes to Suppress No-Till Weeds, Weed Seed Banks."

While there's plenty of information about multiple benefits of cover crops, it's often harder to quantify the impact of covers on suppressing weeds and weed-seed banks — especially in no-till systems, says Robert Kremer.

The retired research microbiologist with the USDA's Agricultural Research Center in Columbia, Mo., believes changes in no-till crop rotations and implementing longer rotations with three or more main crops can provide opportunities to integrate additional cover crop species for enhanced weed suppression. Kremer says these changes will provide benefits to soil biological function with concurrent weed and pest suppression.

No-Till Classroom #18...

"Identifying Your No-Till Options for Starter Fertilizer Applications."

The use of starter fertilizer is a common practice, especially in no-till systems, but there are different product options in the marketplace for starter applications that carry certain plusses and minuses that require a clear understanding, says Brian Banks.



Brian Banks

The senior agronomist for The Andersons Plant Nutrient group will explain the differences between product options, including conventional vs. lowsalt fertilizers and how their use can affect place-

ment and timing of application. He will also highlight fertilizer nutrient sources, micronutrients and critical tips and considerations for applying starter fertilizer to no-tilled soybeans.

4:35 to 5:35 p.m. "Another Set of 15 Engaging No-Till Roundtables."

This third set of 15 no-till roundtables gives you another chance for valuable "one-on-one" learning with no-till colleagues. It's also your opportunity to find an answer to a dilemma or be a hero to another no-tiller by offering your own farm-tested advice.

36. Getting a Profitable Payoff with Micronutrients

- 37. Maximizing Efficiency with One-Pass Planting, Fertilizing Setups
- 38. Terrific Tips for Planter Setups in Strip-Till Systems
- 39. Making the Right Moves with Cover Crop Mixes
- 40. Seeing the Potential in Cereal Rve Seeding
- 41. Getting Out of the Starting Gate with Annual Ryegrass
- 42. Turning Up No-Till Diversity with Radishes
- +2. Idilling Up NU-Till Diversity with nadishes
- 43. Winning Spring Burndown Formulas for No-Till Weeds
- 44. No-Till and Landlords: Selling the Sizzle of 'Dirty' Farming 45. Managing Moisture with Tile, Other Drainage Systems
- 46. Fredericale Factions No Till Blanks Commen
- 46. Exclusively For Kinze No-Till Planter Owners
- 47. Turning to Mycorrhizae, Humics & Other Soil Builders
- 48. Finding a Fit with Foliar Fertilizers
- 49. Debating Drilled, 15- or 30-Inch Beans What's Best?
- 50. Finding the Right Path with Guidance Systems

5:35 to 6:15 p.m. "Slow Down at the NNTC Reception After a Productive Day of No-Till Learning and Networking."

Relax and visit with no-till conference friends at the event's cash bar and reception right before the annual banquet.

6:15 to 8:15 p.m. "Enjoy a Great Night at the National No-Tillage Conference Gala."

(Included in your no-till conference registration fee.)

"Introducing the Latest Class of No-Till Innovators."

After a fabulous dinner, we'll start the night's festivities with the unveiling of the 21st class of inductees into the No-Till Innovator Awards program, cosponsored by Syngenta and *No-Till Farmer*.

Special Presentation: "Top 25 Innovators in the History of No-Till."

No-Till Farmer editor Frank Lessiter recognizes more than two dozen people who influenced the growth of no-till practices across the U.S. and the globe.



Frank Lessiter

8:15 to 9:15 p.m. "Post-Banquet Dessert & 25th Anniversary Networking Event."

Cap off a great day of learning with some special 25th anniversary cake, coffee and drinks, and enjoy the company of your fellow no-tillers and Title Sponsors as we wrap up Day 3 of the NNTC.

FRIDAY, JANUARY 13...

7 a.m. to Noon. "No-Till Registration Time."

Don't forget to pick up your conference materials and FREE reports and books valued at \$132.70.

8:00 to 9:00 a.m. "20 More High-Value No-Till Roundtables to Gather Ideas & Solutions."

Select from 20 No-Till Roundtables where you can ask questions and discuss practical, field-proven ideas on a specific topic. If you came with a group, split up to maximize the no-till learning opportunities.

- 51. Using Vertical Tillage Without Casting Away Residue
- 52. Making Your Combine a Residue-Spreading Asset

Still Another Great Spouses Program!

A FREE 4-day program for spouses is also part of this 25th annual event. In fact, these special sessions were put together by notilling spouses.

To receive your copy of the program, visit NoTillConference.com or call today at (866) 839-8455 and ask for one to be dropped in the mail to you right away.

- 53. Getting Consistent Results with Variable-Rate Fertility
- 54. Handing the Keys to the Next No-Till Generation
- 55. Exploring Biological Solutions to Pest Control
- 56. For No-Till Dairy Farmers Only
- 57. Terrific Tips for Turning Around Compaction Issues
- 58. Turning No-Till Air Seeders into Top Performers
- 59. No-Tilling Cotton & Southern Specialty Crops
- 60. Tips, Tools for Timely Cover Crop Seeding
- 61. Cover Crops that Cut Your Fertilizer Bill
- 62. For Cold-Climate No-Tillers Only
- 63. Steps for Using No-Till Sprayers More Effectively
- 64. Whipping No-Tilled Wheat into Shape
- 65. For John Deere No-Till Planter Owners Only
- 66. Talking About Strip-Till Fertilizer Timing, Placement
- 67. Pushing Through Stagnant No-Till Soybean Yields
- 68. Tips & Techniques for Better Nitrogen Applications
- 69. Can Gypsum, Calcium, Sulfur Make No-Till Work Better?
 70. Safeguarding Your Ag Tires from No-Till Stubble



9:15 to 10:15 a.m. "Choose from 6 More Top-Notch No-Till Classrooms."

You've got six more intriguing no-till classrooms to choose from to help you make a big impact on your 2017 cropping operation.

No-Till Classroom #19...

"The Importance of Sulfur and Tips for Utilizing it for Your Crops."

There's a lot of discussion about the significance of sulfur in crop production. As it turns out, there's less and less of this valuable nutrient in the environment. In fact, sulfur may be the second-most neglected no-till nutrient behind calcium, says Neal Kinsey.

The Charleston, Mo., fertility expert will discuss the need for sulfur in a no-tiller's nutrient plans to raise high-yielding crops, sulfur's behavior in the soil profile, deficiency symptoms and the best way to make sulfur available to your plants.

No-Till Classroom #20...

"Getting the Most from Corn, Cover Crops with 'Bio' Strip-Till."

With cooler temperatures, fewer growing-degree days and sometimes waterlogged soils in eastern North Dakota, raising corn can be a challenge — let alone getting cover crops into the mix. But Joe Breker has implemented a unique planting system that lets him utilize both.

The veteran Havana, N.D., grower will provide in-depth details on the bio strip-till system he uses to support growth of mycorrhizal fungi, make nutrients available for plants and prepare an ideal seedbed for corn in the spring. He'll also discuss his approach to successfully seeding corn into cover crop residue to maximize emergence.

No-Till Classroom #21...

"Using No-Till, Cover Crops to **Boost Yields on Tougher Acres."**

No-tillers often lose a lot of sleep as they face challenges to increase corn and soybean yields on tougher soils that are poorly drained, drought prone and contain lower organic matter. But by utilizing no-till, cover crops, timely nitrogen management, superior plant genetics and biotechnology improvements, no-tillers can transform soil properties and characteristics that enhance soil organic matter, improve water infiltration, prevent



Randy McElroy

soil and nutrient loss and, ultimately, gain yield potential for corn and soybeans, says Randy McElroy.

Drawing on examples from many years of southern Illinois research, the technical development representative and sustainability researcher at Monsanto Co. will discuss how no-tillers can use earlyseason corn and soybean genetics and available data to open a wider window for seeding cover crops to improve soil health and increase grain yields in challenging fields.

No-Till Classroom #22...

"Strategies for Getting Ahead of Those Tough No-Till Weeds."

Troublesome weeds like marestail, waterhemp and ragweed (and many more) are a challenge in no-till production systems, especially as resistance to certain classes of herbicides becomes more widespread, says Bob Bruss.

The director of technical services for Nufarm Americas, who has over 30 years experience in developing weed control solutions, will offer common-sense recommendations to help no-tillers fight the most difficult weeds in a range of crops, helping no-tillers get off to a clean start in 2017.



Bob Bruss

No-Till Classroom #23...

"How No-Tilling Non-GMO Soybeans Can Put More Dollars in Your Pocket."

Interest in raising non-GMO crops among notillers is growing, but some fear the advantage of scoring higher price premiums might be offset by the additional field management and required paperwork.

But Essex, Mo., no-tiller Johnny Hunter will discuss how he plants and manages 1,000 acres of non-GMO sovbeans in a no-till environment and share how the practice pencils out for him economically vs. raising Roundup Ready or LibertyLink soybeans.



Johnny Hunter

No-Till Classroom #24...

"A Proven No-Till 'Systems Approach' to Keep More Nutrients on Your Farm."

If there's one thing Dwight Clary doesn't like to see, it's expensive nutrients escaping his farm. That's why he's developed a 'conservation agriculture systems approach' to building soils and safeguarding nitrogen, phosphorus and potassium on his Fostoria, Ohio, farm where he no-tills corn, soybeans and wheat.



Dwight Clary

Clary will discuss the pillars of this approach, including in-furrow and foliar applications of nutrients and the potential payoff in nutrient efficiency, soil and

plant health. He'll also share what he's learned from the Clary In-Stream Sediment Collector he invented that lets him collect sediment from a creek and sample it for nutrients after high-intensity rainfall events.

10:15 to 10:45 a.m. "Last Chance for Valuable Networking in the Hallways with Refreshments."

Take this final refreshment break opportunity to visit with fellow notillers and sponsors ahead of the final general sessions that conclude this milestone 25th annual conference.

10:50 a.m. to 11:35 a.m. "Putting Soil Microbes to Work in Your No-Till System."

Arbuscular mycorrhizal fungi (AMF) are friends with plants, colonizing within the roots of most crops and providing biological protection from diseases while making plants more drought and salinity tolerant.

But the benefits don't end there, says Wendy Taheri, as these enigmatic microbes provide a multitude of services that result in larger, stronger, healthier plants that are more likely to survive whatever Mother Nature throws their way. The microbiologist at Pelham, Ga.-based TerraNimbus will provide attendees with an introduction to AMF and explain the mechanisms they employ to make your cropping system more resilient.

11:40 a.m. to 12:25 p.m. "Tracking Glyphosate's **Effects on Microbial Communities in No-Tilled Soils.**"

Glyphosate is the most widely used herbicide in the world, but its potential impacts on soil biology and health is of considerable concern to experts like Robert Kremer.

The retired research microbiologist with the USDA's Agricultural Research Center will discuss the complex of many soil, biological, environmental and management factors necessary for the microbial degradation and dissipation of glyphosate. He'll share why an understanding of glyphosate's effects on soil microbial community Robert Kremer structure and function is critical for sustainable cropping systems where glyphosate is used.



12:25 to 12:30 p.m. "Get Ready to Put All that No-Till Knowledge to Work."

The No-Till Farmer staff will send you home with a final encouragement to improve your no-till system in 2017 as we wrap up the 25th anniversary edition of the National No-Tillage Conference.







January 10-13, 2017 • St. Louis, MO

Quarter Century of No-Till Learning

Come help us celebrate this momentous occasion and enjoy these anniversary activities:

SPECIAL EXHIBIT:

History of No-Till

Walk and browse through a special display of no-till history, including videos, photos, banners and other historical items as we honor 55 years of this soil-saving practice and the farmers and industry influencers who helped the movement grow across the U.S. and around the globe.

25 No-Till Living / CGCNOS

Following a fabulous dinner at Thursday night's banquet, enjoy a special presentation honoring the top 25 innovators in no-till history. *No-Till Farmer* editor Frank Lessiter will recognize more than two-dozen people who have had a tremendous impact on the growth of no-till practices in the U.S. and around the world.

13 Reasons Why This No-Till Event is the Most Valuable Learning Experience You'll Have in 2017!

- **1 FEATURING** an extremely valuable combination of 13 general session presenters, 24 No-Till Classrooms and 70 "face-to-face" No-Till Roundtables earning a "see-it-here-first" reputation unlike any other event.
- **2 RECOGNIZING** that every minute of this intensive, 4-day, no-nonsense event is geared toward leading you to more profitable no-tilling in 2017.
- 3 TAPPING the expertise of leading no-till innovators during 4 days of highly intensive "nonstop" hallway networking.
- 4 AVOIDING dozens of costly time- and \$\$\$-wasting mistakes that have already been made by fellow no-till attendees.
- **5 DELIVERING** equipment modification tips and thought-provoking product innovations in a powerful nonstop learning environment.
- **6 DISCOVERING** new ideas and opinions guaranteed to meet your cropping needs in an extraordinary "one-of-a-kind, no-till think-tank" atmosphere.
- 7 CAPITALIZING on the latest field-proven ideas for

- solving the most critical no-till problems that you face each day.
- **8 PROVIDING** an in-depth, unbiased no-till program offering state-of-the-art ideas to meet your specific needs without pushing specific system ideas, cropping techniques or government agendas.
- 9 STEERING this event are no-tillers just like you. The opinions and suggestions of the previous year's attendees keep the program directly relevant to your needs and the problems you face each day in the field.
- **10 BUILDING** a dynamic "This Conference is for Me" style program that will deliver a healthy shot of adrenaline and valuable no-till ideas for 2017.
- **11 OFFERING** three distinct styles of learning spread over 100 sessions hailed as a breath of fresh air for the entire no-till community.
- **12 DEVELOPING** a network of fellow no-tillers who can help you solve no-till challenges at the conference and into the future.
- **13 REAPING** the best return on investment of any single learning activity you'll be part of in 2017!

We've listened to what you want and need in the way of high-quality no-till education. The result is a no-holds-barred, one-of-a-kind conference with a top-notch reputation for delivering nonstop, focused no-till solutions.

See You in St. Louis!

Reserve Your Room at the Host Hilton!

The Hilton St. Louis at the Ballpark will be the host site for the **25th** annual National No-Tillage Conference

You can reserve your rooms at the special **National No-Tillage Conference** rate of **\$102 per night** by calling **1-877-845-7354**. Make sure to ask for the National No-Tillage Conference rate when making phone reservations. You may also make room reservations online when you visit **www.NoTillConference.com**.

Room availability is limited, so be sure to make your room reservations as soon as possible!

The Hilton St. Louis at the Ballpark is located in the heart of downtown St. Louis right next to Ballpark Village, within 100 yards of Busch Stadium and footsteps from the iconic St. Louis Gateway Arch.





YOURS FREE! \$132.70 of Valuable No-Till Reports, Bonuses

These special "No-Till Bonuses" provide hundreds of pages of essential, innovative no-till information that enhance the value of your conference registration fee. It's all yours FREE for the commitment you've made in taking your no-till operation to the next level by attending our nationally acclaimed no-tillage conference.

Your no-till learning shouldn't end on the final day of the National No-Tillage Conference. To meet your constantly changing no-till system needs. you'll find plenty of valuable tips, techniques and tricks that you can put to immediate use in these 6 FREE "No-Till Bonuses."

Loaded with hundreds of top-notch nuts and bolts ideas, these nearly 1,000 pages of valuable reference materials offer information that you certainly won't want to be without when finalizing your no-till strategy during the coming crop-production season.

Bonus #1

No-Till Farmer & Conservation Tillage Guide

Each registered attendee receives a FREE 1-year subscription to No-Till Farmer delivered monthly. including 8 issues of the

popular 16-page newsletter and 4 issues of the info-packed Conservation Tillage Guide quarterly magazine.

Bonus Value: \$44.95

Bonus #2

Farm Catalog

This specialty product directory serves as a yearround reference to the latest innovative products

from more than 100 shortline farm machinery manufacturers and suppliers.

Bonus Value: \$29.95

Bonus #3

Covering Up. Part 3: Branching Out with Your Cover Crop Program

Looking to go from a single species to a cover crop cocktail or to drastically reduce your fertilizer bill? Do you want to extend the life - and benefits - of your

covers by planting into them? Check out these success stories, learning experiences and new ideas to help you achieve your next cover crop goal with No-Till Farmer's third installment on cover crops.

Bonus Value: \$15.95

Bonus #4

The Secrets of Soil Biology: How to Make it the Engine for a More Profitable No-Till Operation

This timely and actionable special report developed by No-

Till Farmer will lead you through new developments in soil biology. You'll learn the key players that make up your soil 'livestock,' the link between crop rotation and improved soil function and new soil tests that can shine a light on what's happening below the soil surface.

Bonus Value: \$15.95

Bonus #5

Turning Your No-Till Planter Into a Money-Making Machine

This special report focuses in on the latest revelations, adaptations, research results and technologies to

help no-tillers get better corn and soybean seed placement for improved plant stands, and to secure higher yields.

Bonus Value: \$15.95

Bonus #6

25th Anniversary No-Till Hat

We've offered a stylish hat for every single one of our no-till con-

ferences since our event debuted in 1993. Our 25th Anniversary No-Till Hat is yours free — wear it with pride and let others know you're a committed no-tiller!

Bonus Value: \$9.95

We Fully Guarantee Your Satisfaction!

I've covered no-till for 45 years and I've picked up hundreds of new no-till techniques, tips and strategies during the first 24 years of the National No-Tillage Con-

ference to share with No-Till Farmer readers. That's why if this highly intensive, information-filled no-tillage conference isn't everything we promise, write me and I'll send you a full 100% refund. Take up to 6 months to decide so that you can measure the return on your investment from this unique learning experience.

For more than 4 decades, no-tillers have trusted No-Till Farmer to deliver unbiased no-tilling information. Hosting this annual event is still another way for us to help you continue your no-till education, not just through the talented and informative speakers and classroom presenters, but with the valuable networking opportunities that occur through the 70 No-Till Roundtables and hallway conversations.

This unsurpassed guarantee ought to convince you that we're worthy of your trust and attendance at the 25th annual National No-Tillage Conference coming up this January 10-13, 2017.

See You In St. Louis!

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And when you add in the breakfast, lunch, banquet, welcome reception and several networking breaks, the value of these reports and bonuses nearly match the cost of registration for this first-class educational conference on no-till.

4 EASY WAYS TO REGISTER

PHONE: Call (866) 839-8455 or (262) 432-0388 (with vour credit card handy) to register for the January 10-13, 2017, National No-Tillage Conference.

FAX: Just fax the registration form on the back of this page to (262) 786-5564.

MAIL: Send the registration form on the back of this page to NNTC, P.O. Box 624, Brookfield, WI 53008-0624.

ONLINE: Registration is available and secure at the

No-Till Farmer website: www.NoTillConference.com.



25th Annual National No-Tillage Conference

Hosted by *No-Till Farmer* P.O. Box 624 Brookfield, WI 53008-0624



SEE INSIDE FOR FULL DETAILS...

Get a Really Quick Payback in 2017!

Take home an average of **\$62,842.00** in NEW ideas that you can **put to immediate use** in your no-till system.

-2016 NNTC Attendee Survey

Boost Your No-Till Yields in 2017!

Primary Registrant:		Registration Options:	
Register me at the address above.		Call or fax or mail back this completed form to the information listed on page 11. Registration forms must be received by 12/31/16 to get the regular rate of \$319 (\$50 savings off the onsite rate). Meals note	
Name:			
Farm or Company Name: _		in program are included with each registrat	
Address:		#1 Full Conference Registration \$319	
City:	State:	1 attendee x \$319 =	\$ 319
Zip/Postal Code: Country: #2 Additional Attendees from 0 Phone: Registration \$292 each			
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		attendees x \$292 =	\$
☐ Register me for the Special Soil Microbes Workshop for \$75.		#3 Special Soil Microbes Workshop \$75	
Additional Regi	strant:	(See Pg. 2 for details. Must be a registered att	
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☐ Same address as primary registrant.			
Farm or Company Name: _		#4 Additional Banquet Tickets x \$4	9 = \$
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Phone:			
Email:		Card #:	
☐ Register me for the Special Soil Microbes Workshop for \$75.		Exp date:	
*Please attach contact information for any additional attendees.		Name on Credit Card:	