

Hacing Toward No-Till

The 26th annual National No-Tillage Conference from January 9-12, 2018, in Louisville, Ky., will bring to one historic, picturesque setting on the Ohio River all the resources, information and networking opportunities you need to get your no-till operation off to a blazing start in 2018.

You won't want to miss this! See the highlights:

- ✓ Impactful Learning, Actionable Ideas from 37 Top-Notch Speaker Sessions
- ✓ 80 Roundtables to Seek Answers to **Your Toughest No-Till Challenges**
- Exclusive Workshops on Planter Setups, **Getting More from Your Fertility Practices**
- Several Meals, Two Receptions, Three Refreshment Breaks for Valuable Networking
- Conference Bag Stuffed with New Reports, Useful No-Till Info & the 2018 NNTC Hat

...AND MUCH MORE!









Essential Networking! Impactful Learning!

See you January 9-12, 2018 in the Derby City!

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





























Get Your Growing Season Off to a Fast Start During 4 Days of Invaluable Learning in Louisville!

Embrace the Formula for Success: For more than a quarter of a century. the National No-Tillage Conference has been providing the practical tips and information you need to run a more successful no-till operation. In our 26th year, we're ready to do it again as our event convenes in beautiful downtown Louisville, Ky., for the first time.

Behind the theme, "Building More Profitable No-Till Systems," we've lined up nearly 40 top-notch no-tillers, agronomists, researchers and other no-till experts to deliver innovative ideas that can help you get the most out of your no-till farming system. This 26th annual conference offers 13 General Sessions, 24 No-Till Classrooms and 80 No-Till Roundtables. Plus, valuable pesticide recertification and Certified Crop Advisor credits are available to qualifying attendees.

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 that kicks off the 2018 crop production season. Don't miss out!

2:00 to 5:00 p.m. "Special Members Only Workshop —

(This workshop, limited to 100 attendees, costs just \$75 to attend and is available only to paid registered NNTC attendees. Sign up

Maximizing Yields in Your Best No-Till Fields."

A common approach to nutrient management for

TUESDAY, JANUARY 9...

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

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

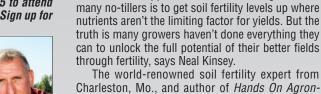
2:00 to 4:00 p.m. "Special Members Only Workshop — No-Till 101: Get Planting Off to a Better Start."

(This workshop, limited to 50 attendees, cost just \$75 to attend and is available only to paid registered NNTC attendees. Sign up for this workshop using the form on Page 12.)

Are you thinking of converting your farm to no-till or in the early years of your no-till journey? Getting seed into the ground properly in a no-till environment can be challenging. But having a basic knowledge of proper attachments, setups and checklists for no-till planters can make the transition a little easier, says Bill Lehmkuhl, owner of Precision Agri Services.

The no-till planter expert from Minster, Ohio, will provide attendees of this exclusive workshop focused for those who are new to no-till or in need of reviewing no-till planter fundamentals — with valuable tips for basic planter equipment setup and operation. No-till attachments, frame and hitch adjustments, seed tubes, meter calibration, planting rates and speeds, maintenance,

dealing with a no-till environment and much more will be covered.



using the form on Page 12.)

Charleston, Mo., and author of Hands On Agronomy will help no-tillers get more value out of their

top-producing soils, rather than just focusing time and money on bringing the bottom ones up. Key areas Kinsey will cover include analysis of soil and tissue tests for determining nutrient values, thorough scouting of fields to aid in fine-tuning of nutrient strategies and ways to optimize yields.

Kinsey will also choose a handful of soil test reports submitted by workshop participants to discuss examples of nutrient practices that could be improved and offer tips for correction.

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 items and drinks — and some engaging discussion with your fellow no-tillers. Our annual Welcome Reception is made possible with the support of Martin Industries, Midwest Bio-Tech, Pennington Seed and Topcon Positioning Systems. This is the perfect way to network with farmers, sponsors and other conference attendees before you start absorbing 3 days of no-till techniques.









WEDNESDAY, JANUARY 10.

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

6:30 a.m. to 8:30 a.m. "Breakfast on Your Own."

8:35 to 8:45 a.m. "Official Kickoff to the 26th 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 9:35 a.m. "Improving the Bottom **Line with a More Precise, Records-Based** Approach to No-Tilling."

Rick Murdock knows the power a no-till system has to transform eroded, unproductive terrain into successful farming operations, having seen it happen during travels to Brazil, Indonesia and other countries, and on his own 1,200-acre farm near Murray, Ky. where he saw a no-till planter roll in 1976 as a 19-year-old.



Rick Murdock

Murdock will kick off our conference by sharing the no-till system he's assembled to successfully raise crops in highly erodible silt loam loess soils, including his 1-acre "learning block" approach to testing different corn hybrid populations, records-based spoon-feeding of nitrogen and special software to track crop and expense records that help him raise corn, wheat and double-crop soybeans more profitably.

9:35 to 10:20 a.m. "Moving from No-Till to a Higher Functioning Agro-Ecological System."

While no-till can slow erosion, reduce compaction and improve soil structure, this practice alone simply isn't enough to rejuvenate soils into highfunctioning ecological systems. Without the implementation of diverse cover-crop systems, strictly no-till operations will lack the ability for the soil to function as designed, says Adam Daugherty.

For a no-till system to gain the ability to prosper from the organic nutrient pool and gain resilience,



Adam Daugherty



cover crops are not optional but necessary, says the NRCS district conservationist in Coffee County, Tenn. Daugherty will share results of his district's 3-year study on cover crops seeded on 18 different farms, discussing the benefits to soil biological activity, as well as yields for corn, soybeans and wheat. He'll also delve into the economic payback covers provided on these farms.

10:35 to 11:35 a.m. "Choose from 6 High-Powered 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...

"Taming Tough, Erosive Soils with No-Till, Controlled Traffic and Multispecies Covers."

No-till wasn't a quick fix on Waltz Farms during the 1980s when his family was seeking to cut labor. fuel expenses and reduce erosion. But after three decades of adjusting and fine-tuning his practices, Tim Waltz's 100% no-till system is increasing crop yields without hiking input costs.



Tim Waltz

Waltz will describe how his no-till planting machines and technology have evolved over time. He will also explain how seeding multispecies cover crops behind wheat and cereal rye after corn and soybeans — as well as building a controlled traffic system — helped reduce compaction and make his Van Wert, Ohio, farm's tough clay soils more productive. He'll also touch on some recent success he's had convincing landlords to accept no-till practices.

► No-Till Classroom #2...

"Ending Continuous Corn Yield Penalties with **Better Residue, Agronomic Management.**"

Dealing with excessive residue can be a problem for many growers no-tilling continuous corn or other high-volume residue situations, such as increased planting populations or crops that produce greaterthan-average yields. Accelerating residue degradation and nutrient cycling is necessary to maximize yield potential. Synchronizing the release of nutrients tied up in residue



Alison Vogel

to current crop demand is the key, says Alison Vogel. The crop physiology research assistant at the University of Illinois - working with the guidance of crop physiologist Fred Below — will share ongoing research and results of varying fall harvest methods and

chemical or biological treatments to enhance residue decay in different crop rotations. She will also discuss the impact of standard vs. highinput systems on final grain yield and on decreasing the magnitude of the continuous corn vield penalty.

"Crafting Solutions for Tackling **Tough Cover Crop Seeding Challenges."**

► No-Till Classroom #3...

Getting cover crops seeded on time is one of the major challenges no-tillers face, especially in areas with shorter growing seasons. But advances in equipment technology are giving growers some improved options for getting seeding done in a timely manner, says Adam Fennig.



Adam Fennig

The sales representative at Fennig Equipment in Coldwater, Ohio, will outline equipment options in which the dealership specializes that allow no-tillers to apply covers at sidedress, post-harvest or even via interseeding, including three in-house designed seeders for high-clearance sprayers and combines. He'll also share some setup and application tips and results from farms where this technology was used.

► No-Till Classroom #4...

"Reaping the Benefits of Flipping the Switch from Ridge-Till to No-Till."

Even though Mark Ditlevson was a successful ridge-tiller for more than 30 years — turning to the system during tough financial times in the 1980s he reached a point several years ago where he wanted more out of his 950-acre corn and soybean operation.



Mark Ditlevson

The Blooming Prairie, Minn., grower will discuss the economic and soil health benefits he's seeing from converting from ridge-till to a full-fledged no-

till operation and how he's dealing with differences in weed and insect pressure during the transition. He'll also share tips on how he's interseeding multispecies cover crops into corn to work around his shorter growing season.

► No-Till Classroom #5...

"Moving Away from 'Conventional' Thinking with No-Till, Covers, Livestock."

John Macauley's no-till journey has been an evolution, as his 1,200-acre operation has in just 8 years shifted away from decades of conventional tillage to a mix of no-till and strip-till practices, and then to 100% no-till.



The Groveland, N.Y., no-tiller and beef producer John Macauley will discuss how he's integrated livestock and multispecies cover crop mixes with his corn, soybean, wheat and hay rotation. He'll also share how he's using some outside-the-box thinking to spread pack manure on cover crops, rather than incorporating it, to preserve soil structure and health.

▶ No-Till Classroom #6...

"Adding Manure to the No-Till Toolbox Without Making a Mess of Your Fields."

Many no-tillers would like to add manure or increase the use of it on their farm as a more economical option to increase soil fertility. With more states requiring manure to be placed beneath the soil surface, some growers worry incorporating manure will disturb their no-tilled soils too much.





Gordon Smiley

Jeff Smiley

No-tillers Gordon and Jeff Smiley will discuss the success they're having using a dragline system with wavy coulters to inject swine manure to build soil fertility and increase crop yields for corn, soybeans and barley through reduced compaction. The Greensburg, Ind., no-tillers will also share how they're pairing manure and cover crops to increase soil health another notch.

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.) 10th Annual Responsible Nutrient



AgroLiquid and No-Till Farmer will recognize three no-tillers judged to be environmentally, economically and practically responsible with their no-till nutrient management programs.

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

Harry Young Jr. Memorial Lecture Series (Made possible with the support of H&R Agri-Power)



1:30 to 2:45 p.m. "Setting Up Your Farm for Future **Prosperity by Embracing Integrity Farming, Ranching.**"

Soil health expert Ray Archuleta says the formula for success in agriculture is changing at a fast pace and that will require no-tillers to develop a different outlook and skill set for their operation to prosper.

In his first of two general sessions at this year's event, Ray will share the tenets of building ecological and economic integrity on farms and challenge attendees to take part in the ecological revolution that is nurturing new leaders in the ag community.



Rav Archuleta

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

You're halfway through the most informative day of the no-till year. Grab a refreshment courtesy of Koch Agronomic Services while discussing the things you've learned with no-tillers.



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...

"Super Sizing Cover Crop Benefits in Your No-Till Operation with More Diversity."

Though many no-tillers are seeding cover crops, whole regions of the Corn Belt are only using cereal rve. Growers are missing out on some of the potential benefits they could realize from adding legumes, brassicas and other grasses into their mixes, says Dan Towery and Hans Kok.





Dan Towery Hans Kok

The conservation consultants from Indiana will discuss opportunities no-tillers should explore for increasing cover crop diversity in their farm operation, while still increasing yields and realizing more soil health benefits. They will also discuss factors impacting seeding

and termination and how that affects how long cover crops can be allowed to grow. They'll also evaluate whether increasing diversification is worth the added cost and effort and opportunities that may arise from adding wheat, barley or oats to corn-soybean rotations.

► No-Till Classroom #8...

"How Continuous No-Till, Planting 'Green' Add Up to Higher Yields. Better Soil Health."

Matt Griggs isn't afraid of biomass. In fact, the biomass created by 18 years of continuous no-till has helped Griggs keep fields covered and soil in place as he no-tills 1,600 gently rolling acres of corn, soybeans, cotton and cereal grains on his Humboldt, Tenn., farm. The recent addition of cover crops has only added to the soil improvements and reduction of applied inputs.

Griggs will share onfarm yield and tissue-test



data he's collected on cotton, corn and other summer crops raised both with and without cover crops and more comparative data on soil fertility. He'll also share how he's successfully planted cash crops "green" into living cover and reduced applied commercial fertilizer through implementing a diverse no-till system.

► No-Till Classroom #9...

"Get Out of the Rut by Adding No-Till Vegetables, **Interseeding Covers in a Cold Northern Climate.**"

While corn and soybeans are staples for many growers. Tom Cotter is doing that and more. The fourth-generation grower has added vegetables and beef to his 1,100-acre operation near Austin, Minn.

Cotter will explain how he manages his farm to no-till sweet corn and peas for a cannery, in addition to corn and soybeans, and backgrounds calves and produces all-natural beef products for the retail market. He'll also share the benefits he receives



from interseeding or seeding multispecies cover crops after harvest for grazing and soil improvement in an area where many no-tillers just stick to cereal rve.

► No-Till Classroom #10...

"Why Ultra-Narrow-Row Corn Should Be in Your No-Till System."

Marion Calmer has studied the impact on yields of no-tilling corn in ultra-narrow rows. The Alpha, III., no-tiller became so convinced at the benefits he designed his own corn head to harvest 15-inch rows.



Calmer will outline some of the major challenges Marion Calmer and obstacles that need to be overcome in ultra-narrow-row systems. including how he manages residue buildup. He will share population studies and applied fertilizer rates. In addition, he will highlight narrowrow soybeans and how he has overcome white mold issues.

► No-Till Classroom #11...

"Parking the Plow, Switching to No-Till to Raise More Profitable Tobacco."

When it comes to production of burley and dark tobacco, many growers are still using conventional tillage. They are not realizing the equipment, labor, fuel efficiencies and soil health benefits that can be gained using no-till. Kentucky NRCS state agrono-





mist Randy Smallwood and Brad Randy Smallwood Brown, an environmental specialist with the Kentucky Department of Fish and Wildlife Resources, will share the successes they've witnessed through a 5-year program that helped numerous tobacco growers adopt no-till. They'll discuss how tobacco fits into normal row-crop systems, proper transplanter setups and how growers are adding more diverse cover crops to improve soil health and profitability.

▶ No-Till Classroom #12...

"Making Your Cover Crop **Investment Pay Off from Year 1."**

Many no-tillers who have just begun seeding cover crops or are taking a serious look question how long it will take to see a payoff through higher soil organic matter levels, better nutrient cycling and more. But the payday may not take as long as you think, says no-tiller and cover crop veteran John Stigge.



John Stigge

The Washington, Kan., no-tiller and rancher will spell out the different 'Year 1' benefits of individual cover crops, what their costs usually are and where in a no-till cropping system they could be used. Stigge will also explain the costs and benefits of basic blends that can be seeded economically and still deliver sizeable results.



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

Select from 20 No-Till Roundtables where attendees 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. Setting Up No-Till Drills for Better Soybean Stands
- 2. Terrific Tips for Applying Manure in No-Till Systems
- 3. Finding the Winning Formula for No-Tilling Vegetables
- Successful Sidedressing Strategies for No-Tillers
- Shielding Your No-Till Field from Seed, Soil Diseases 5.
- Getting More Production from No-Till Alfalfa, Forage
- 7. Exclusively for Case IH Planter Users
- 8. Finding a Win-Win Using Twin Rows
- 9. Building Strip-Till Berms the Right Way
- 10. Reaping the Benefits of Non-GMO Crops
- 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 Louisville while discussing today's topics and networking with fellow no-tillers.

7:15 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 2017. We take a moment to recognize and thank them.

7:25 to 8:15 p.m. "Building a Systems Approach to Soil Health."

When it comes to getting the most from no-till, Russ Hedrick firmly believes a systems approach is necessary — and that includes no-tilling, cover crops, grazing livestock and using precision technology to manage seeding and nutrient application.

Having raised 300-bushel corn with just 140 units of applied nitrogen, the Hickory, N.C., no-tiller and manager of JRH Grain Farms will share how he's successfully integrated these conservation tools into his 1,000-acre farm. He'll discuss how evaluating



Russ Hedrick

on-farm data helps him focus no-till non-GMO corn, soybeans, white wheat and other crops profitably, rather than simply chasing yields.

8:15 to 9:00 p.m. "Lessons Learned from Long-Term Research: No-Till's Impact on Plant Nutrition, **Soil Properties and Yield.**"

Two research stations in Kentucky, where no-till practices are one of the central themes, have provided 25-45 years of data — and some surprising results - on crops, rotations and tillage, as well as their effect on nutrient management, soil properties and grain yield, says John Grove.



John Grove

The director of the University of Kentucky's Research and Education Center will share practical, yet sometimes surprising, insights about nitrogen

requirements in no-till corn, no-till's role in soil organic matter preservation, the true consequences of just one tillage pass on soil porosity and more.

9:00 to 11:59 p.m. "Wrap Up Your Day **HAWKINS** at the NNTC Hospitality Event."

(Made possible with the support of Hawkins Mfg.)

Enjoy this valuable opportunity to network and talk about the day's presentations and hot no-till topics with your fellow no-tillers while enjoying refreshments and light snacks, courtesy of Hawkins Mfg.

THURSDAY, JANUARY 11...

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 Resistance Fighter."

Following the buffet breakfast sponsored syngenta by Syngenta, two experts in the field of weed management will provide you with information and insights on protecting your crops for the upcoming growing season and keeping herbicide resistance at bay.

8:00 to 8:45 a.m. "Identifying Key Strategies for Slowing the Growth of Herbicide Resistance."

Weed resistance has been an ongoing battle for no-tillers across the U.S. for 40 years. And while many herbicides entered the market with the promise of being the next great solution against a broad range of weeds, overusing products with the same modes of action has hindered the effectiveness of herbi-



Sarah Gehant



cides, leading to weed resistance and fewer options to control weeds that impact yields and profitability.

Larry Steckel, University of Tennessee Extension weed specialist, and Sarah Gehant, agronomic service representative with Syngenta, will explore factors that have contributed to weed resistance, the current state of resistance in major crops and how a grower's weed management practices can impact their farm. They'll also identify key strategies farmers can use and transformative technologies in the pipeline that can help delay the spread of herbicide resistance.

Frank Lessiter Legacy Lecture Series (Made possible with the support of Calmer Corn Heads)



9:00 to 9:50 a.m. "Why Roots — Not Iron are Key to a More Prosperous Farming Future."

After first turning to strip-till and then converting his farm to 100% no-till practices, Merlin, Ontario, grower Blake Vince will share how he takes sunlight, water and carbon dioxide and makes them into products he can sell.

A Nuffield Scholar recipient in 2013, Vince will reveal in-depth details on how his no-till, cover crop system has evolved over time and why roots, not iron, is the solution to clean up the Lake Erie watershed.



Blake Vince



9:50 to 10:40 a.m. "Honing in on Ecological Nutrient Management to Make Your No-Till Investment Pay Off."

There are plenty of traditional tools available today to help no-tillers assess soil nutrient levels and apply inputs more efficiently, but some older technologies may also have limitations, says Ray Archuleta.

The world-renowned soil health expert will share how using new soil assessment tools, such as the Haney test, along with systems thinking and an ecological understanding of soils can help no-tillers reduce the use of synthetic fertilizers and other chemical inputs without sacrificing yields.

10:55 to 11:55 a.m. "20 Even Better No-Till Roundtables."

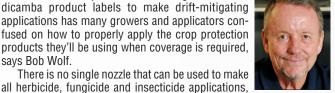
Once you determine which of the following 20 sessions to attend, send others from your farm to other sessions so you can later swap dozens of great ideas that you can add to your 2018 no-till operation.

- 21. Setting Up Planters for Superior Soybean Stands
- 22. Stretching Fertilizer Dollars with Biosolids, Sludge
- 23. Rounding Up More Revenue with No-Till, Livestock
- 24. Using the Right Lime Source to Boost No-Till Productivity
- 25. Getting the Upper Hand on Pesky Slugs
- 26. Focusing on Narrow-Row Corn 12s? 15s? 20s? 22s?
- 27. Adopting No-Till and Organic: Is it Really Possible?
- 28. Incredible Ideas for Improving Irrigation Efficiency
- 29. Breakthroughs with Build-It-Yourself Equipment
- 30. How Drones Can Give Your Farm a No-Till Lift
- 31. Shutting the Door on Voles, Varmints, Critters
- 32. Obliterating Obstacles with Continuously Strip-Tilled Corn
- 33. Conquering Confusion with Precision Ag Data
- 34. Getting a Leg Up on Foliar Diseases, Plant Viruses
- 35. Making a Twin Killing with Double-Cropping Systems
- 36. Supersizing No-Till Yields with Micronutrients
- 37. Marvelous Multitasking with One-Pass Planting, Fertilizing
- 38. The Next Generation: Succeeding with Succession
- 39. Building Soil Biology with Diverse Cover Crop Cocktails
- 40. Simply Seeding No-Till Success with Cereal Rye

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

1:00 to 1:50 p.m. "Do You Know Your Spray Nozzle Sweet Spot?"

The recent emphasis on adhering to the new dicamba product labels to make drift-mitigating applications has many growers and applicators confused on how to properly apply the crop protection products they'll be using when coverage is required. savs Bob Wolf.



Bob Wolf

says the longtime application expert and owner of Wolf Consulting and Research. Wolf will discuss the best nozzle options for non-dicamba applications and provide pointers on how to achieve the desired results with pest control while minimizing spray drift.

1:50 to 2:45 p.m. "Identifying Strategies for Fighting Slugs, Protecting Your No-Tilled Crops."

Slugs can cause a significant amount of damage in field crops like corn and soybeans and are a particular problem in the ecological environment that comes with no-till production — with no easy answers on management, says Kelley Tilmon.

But the situation isn't hopeless, she says. The entomologist at Ohio State University Extension will discuss slug biology and management, including factors that relate to slug problems, and some of Kelley Tilmon the different control measures that are available to deal with them and



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 no-till classrooms with coffee and refreshments courtesy of Precision Planting.



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

You've got six more intriguing no-till classrooms to choose from to help you make a big impact on your 2018 cropping operation.

▶ No-Till Classroom #13...

"Identifying Strategies to Fight Bt Resistance, Control the Yield-Robbing Western Bean Cutworm."

Western bean cutworm has become an increasingly important pest of corn in the Midwest. Populations in many states are increasing. At the same time, says Kelley Tilmon, some Bt hybrids that used to help with this pest are less and less effective as the insects gain resistance.

The field crops specialist at Ohio State University Extension will talk about the rise of Bt resistance in western bean cutworm, pest biology and management strategies to help defeat this pest and protect yields.

► No-Till Classroom #14...

"Put More Dollars in Your Wallet by Grazing Livestock on Cover Crops."

So you don't think livestock can be profitable on your farm? Don't say that to Russell Hedrick, who recently made more money on grazing animals on his 1,000-acre operation than on harvesting grain — doing

it all via marketing on Twitter and Facebook.

Hedrick will share how integrating cover crops and mob grazing for pasture cows, Katahdin sheep and Berkshire pigs on his Hickory, N.C., farm has improved soil health, increased plant brix levels and extended the time his farmland is earning money while improving soil biology.

▶ No-Till Classroom #15...

"Build Up Your No-Till Nutrient Management to Protect the Environment and Your Profitability."

It's no secret no-tillers have worked to reduce soil loss, even in the steepest landscapes. But Amber Radatz asks an important question: Is no-till alone enough to control phosphorus and nitrogen from washing away into local watersheds?

The co-director of the University of Wisconsin's Discovery Farms program will share on-farm data from more than 200 site years in Wisconsin and Minnesota that shed light on the relationship Amber Radatz between phosphorus, nitrogen and no-till. She will



discuss how no-tillers can assess weather and runoff risk, while providing guidance on when, where and how growers can spread manure and fertilizer for environmental and profit protection.

► No-Till Classroom #16...

"Nuts and Bolts of No-Till Crop Nutrition: What You Need, What You Don't, and When and Why."

Even though there's an ever-growing list of options for measuring and managing soil and plant fertility, it doesn't mean more traditional methods must be thrown out the window, says John Grove.

The director of the University of Kentucky Research and Education Center will give new value to older diagnostic practices like soil testing and plant analysis, reduce the drama with newer diagnostic practices like chlorophyll metering and sensors and discuss how to integrate nutrient management practices and products for more costeffective no-till crop nutrition.

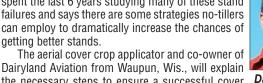


protect your crops and the bottom line.

► No-Till Classroom #17...

"Succeeding with Aerially Seeded Cover Crops: It's Not a No-Till Oxymoron After All."

Many no-tillers complain aerially seeded cover crops result in poor stands. But Damon Reabe has spent the last 6 years studying many of these stand failures and says there are some strategies no-tillers can employ to dramatically increase the chances of getting better stands.





the necessary steps to ensure a successful cover Damon Reabe crop stand, including what seed species work best when broadcast, the best timing of application, how sunlight can affect success rates and what soils have the greatest success rate. He'll also touch on what seed predators to scout for prior to application and how to find a qualified and experienced aerial applicator.

► No-Till Classroom #18...

"Creative Ways to Add Irrigation to No-Till Without Breaking the Bank."

Adding irrigation to a no-till system isn't cheap, but Rick Murdock found a unique way to pay for it and has capitalized on other no-till improvements that keep his 450 irrigated corn acres producing high vields vear after vear.

The Murray, Ky., no-tiller will share the results of adding 50 acres of commercial catfish ponds to create a revenue stream that let him slowly grow into a pivot irrigation system. He'll also discuss watershed ponds he added for flexibility of moving pump stations around to feed water to pivots and how improved infiltration and soil structure, through healthier no-till soils, is helping him retain more moisture and reduce water use.

4:35 to 5:35 p.m. "Another Set of 20 Engaging No-Till Roundtables."

The third set of 20 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.

- 41. Revving Up Soil Productivity with Annual Ryegrass
- 42. Dishing Up No-Till Diversity with Radishes
- 43. Setting the Stage with Successful Weed Burndown Formulas
- 44. Selling No-Till to Landlords with Persuasive Powers
- 45. Reining in Moisture with Tile, Drainage Systems
- 46. Exclusively For Kinze No-Till Planter Owners
- 47. Helping Soil with Mycorrhizae, Humics, Soil Builders
- 48. Fabulous Foliar Fertilizer Application Tips
- 49. Discussing Drilled, 15- or 30-Inch Soybeans What's Best?
- 50. Striving for Success with Guidance Systems
- 51. Finding the Formula for Eradicating No-Till Weeds
- 52. Properly Processing Residue with the Combine
- 53. Bolstering the Bottom Line with Variable-Rate Fertility
- 54. Tremendous Tips for Strip-Till Planter Setups
- 55. Powering Up Pest Control with Biological Solutions
- 56. For No-Till Dairy Farmers Only
- 57. Concrete Ideas for Cutting Out Compaction
- 58. Tweaks, Tricks for Better Air Seeder Performance
- 59. No-Tilling Tobacco, Cotton & Southern Specialty Crops
- 60. Simple Solutions for More Timely Cover Crop Seeding

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 unveil the 22nd SVI class of inductees to be honored in the No-Till Innovator Awards program, co-sponsored by Syngenta and *No-Till Farmer*.



8:15 to 9:15 p.m. "Dessert/Networking Opportunity."

We close out the day's events with dessert, refreshments and another opportunity to network with your fellow attendees and conference sponsors.

FRIDAY, JANUARY 12...

6:30 to 8:00 a.m. "Breakfast on Your Own."

7:00 a.m. to Noon. "No-Till Registration Time."

On the conference's last day, don't forget to check our No-Till Farmer Bookstore for any last-minute deals and take home information that can help you no-till better in 2018!

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 and contribute practical, field-proven ideas on a specific topic. If you came with a group, split up to take in more no-till learning.

- 61. Winning Recipes for Higher No-Till Wheat Yields
- 62. For Cold-Climate No-Tillers Only
- 63. Stepping Up Coverage, Efficacy with Sprayers
- 64. Cover Cropping on a Budget
- 65. For John Deere Planter Owners Only
- 66. Figuring Out Fertilizer Placement in Strip-Till
- 67. Moving the Needle on Stagnate Soybean Yields
- 68. Protecting Profits with Better Nitrogen Applications

- 69. What Can Gypsum, Calcium, Sulfur Do for No-Tilled Soils?
- 70. Stopping Stubble from Ruining Your Tires
- 71. Getting Off on the Right Foot when Planting Green
- 72. No-Till Lessons Learned from Soil Biology Tests
- 73. Making the Right Moves with Vertical Tillage
- 74. No-Till Preservation Practices for River Bottoms
- 75. Strength in Numbers: Making Variable-Rate Seeding Pay Off
- 76. Rooting Out Rootworms, Other Tough No-Till Insects
- 77. Overcoming Continuous No-Till Corn Challenges
- 78. Fighting Back Against Fusarium in Cereal Crops
- 79. Keeping P and N from Leaving Fields
- 80. Secrets to Making Herbicide Tankmixes Shine

Still Another Great Spouses Program!

A FREE 4-day program for spouses is also part of this 26th annual event. In fact, these special sessions were put together by no-tilling spouses. To receive your copy of the program, visit www.NoTillConference.com or call today at (866) 839-8455 and ask for one to be dropped in the mail to you right away.



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

You've got six more top-notch no-till classrooms to choose from to help you make a big impact on your 2018 cropping operation.

► No-Till Classroom #19...

"How and Why You Should Put Your **Nutrient Management Under a Microscope.**"

When it comes to nutrient management, Blake Vince isn't one to stick his head in the sand. To the contrary, the Merlin, Ontario, no-tiller has installed data collection devices on his farm's tile drains to measure nutrients being lost. He even talked his neighbor into doing it.

Vince will share some of the preliminary results he's seen from the data collection system on his farm and how he established partnerships to support his practices and help avoid regulation. He'll also share why it's important for growers to put their nutrient management practices under scrutiny.

► No-Till Classroom #20...

"Tackling Application, Labeling Challenges for Herbicide-Tolerant Cropping Systems."

The application-specific requirements found on the labels for XtendiMax, FeXipan, Engenia and Enlist Duo are meant to protect the environment. But they're also challenging for growers as many of these requirements have not typically been a part of product labels in the past, says Bob Wolf.

The situation became even more complicated as online updates for approved tankmixes (chemicals, adjuvants and drift reduction agents) and nozzles were available almost daily. The owner of Wolf Consulting and Research will present tips and information to help growers and applicators gain a better understanding of these requirements and consider any changes that may occur for the 2018 spray season.

► No-Till Classroom #21...

"Designing a Cover Crop Mix and Managing Your Creation."

The task of implementing cover crops into a no-till rotation goes well beyond just seeding them after harvest. Mix design, livestock integration, carbon-to-nitrogen ratios, cash crop goals, termination strategies and biomass management must be well thought out and planned in advance, says Adam Daugherty.

Whether no-tillers are simply enhancing no-till operations with lowbiomass covers or shooting for high-intensity mixes that bring 20,000 pounds of biomass per acre, the district conservationist for the NRCS in Coffee County, Tenn., will discuss up-front planning and strategies for biomass crucial to ensuring successful integration of cover crops in no-till.

► No-Till Classroom #22...

"How Companion Cropping, Interseeding Can Boost Diversity in Your Rotation."

What started as an experiment spreading cover crop seed by hand within growing cash crops has evolved into a precise, dynamic interseeding system for no-tiller Loran Steinlage, allowing him to boost soil health without dinging yields.

The West Union, Iowa, grower will share toolbar and row-unit setups he's utilized in his 10-plus Loran Steinlage years of interseeding covers into corn and soybeans, showing the results of various tests that were conducted and the increases in grain yields and soil organic matter he's documented. He'll also share benefits derived from companion cropping and even relay cropping on some of his acres.



► No-Till Classroom #23...

"Slashing Inputs, Boosting Soil Health with Long-Term No-Till, Covers and Cattle."

As a 100% no-tiller who raises cash crops, cover crops and a 75-head, cow-calf operation and custom hay business. David Wessel's 2,000-acre no-till operation in Chandlerville, III., is a little unique. But he continues to amass benefits from no-tilling for more than 30 years and adding cover crops to successfully farm his highly variable soils.



David Wessel

Wessel will discuss how he's frost-seeding clover as a double-crop for hay and nutrient source for corn, allowing him to reduce nitrogen inputs by up to 100 units without hurting yields. Wessel will also share the benefits he's seen from 20-inch corn and soybean rows.

► No-Till Classroom #24...

"Products, Practices to Help You Boost **No-Till Fertilizer Efficiency, Effectiveness.**"

No-tillers are typically knowledgeable and cautious when it comes to applying products to soils, particularly when it involves nitrogen and phosphorus. But there are tools no-tillers can utilize to protect their fertilizer investment, says Darin Lickfeldt.



Darin Lickfeldt

The technical development manager for Verdesian Life Sciences will share some results involving nutrient-use efficiency products and why these products not only lead to healthier crops and improved yield, but are also sustainable.

10:15 to 10:45 a.m. "Networking/Refreshment Break."

Take this final opportunity courtesy of Schaffert Mfg. to visit with fellow no-tillers and sponsors ahead of the final general session at this year's impactful conference.



10:50 to 11:40 a.m. "It's All About Carbon: **Building a Thriving Soil Biological Community.**"

Well-functioning soils are teeming with diverse organisms dependent on carbon as an energy source. But typical crop production practices like tillage and seasonal fallow reduce soil organic carbon over time and limit benefits that come from a robust soil biological community, says Dennis Chessman.

The team leader for the NRCS Soil Health Division in Lexington, Ky., will discuss the diversity of organisms present in healthy soils and how a healthy soil Dennis Chessman



ecosystem contributes to important soil functions like water infiltration and nutrient cycling. Chessman will also outline management practices that minimize direct disturbance of soil communities and contribute to building soil organic carbon and helping no-tillers farm more profitably.

11:40 to 12:25 p.m. "Combine Settings to Manage No-Till Residue, Harvest Top Yields."

Marion Calmer takes corn harvest seriously. The Alpha, III., no-tiller knows a properly adjusted combine will allow him to harvest every kernel possible, but he needs to process residue to successfully no-till next year's crop with limited problems from last year's residue.

Bt stalks, corn-on-corn, narrower rows, higher populations and fungicides all make corn residue difficult to decompose and turn into humus and organic matter. Calmer will offer his best tips for a highly functioning combine, including his No. 1 most profitable adjustment.

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 2018 as we wrap up the 26th edition of the National No-Tillage Conference.



Discover Dining, History and Entertainment in Louisville

Louisville is many things — original, eclectic, dynamic and energetic. Within its boundaries you'll find rich history, lively music, famous distilleries and amazing food that will take your valuable time spent at the National No-Tillage Conference to the next level. Here are just a few fun and unique things to do during your stay in Louisville next January!



Louisville Slugger Factory & Museum Connect with a genuine global icon on its hometown turf! The Louisville Slugger Museum & Factory celebrates the extraordinary role Louisville Slugger baseball bats have played in the sport's

past, present and future. From the forest to the field, you'll follow the timber that's turned into hard-hitting history. Along with a fascinating bat factory tour, you'll experience galleries filled with remarkable memorabilia and entertaining interactive exhibits.



Kentucky Derby Museum

Celebrate the tradition, history, hospitality and pride of the worldrenown event that is the Kentucky Derby. With two floors of interactive exhibits, the Kentucky Derby Muse-

um will take you through every stage of a Thoroughbred's life, from birth to the First Saturday in May. Learn about the history of the race dating back to the inaugural running in 1875 to the most recent Kentucky Derby champion, and experience all the traditions that have transformed the race into what it is today.



URBANBOURBONTRAIL

The Heart of Bourbon Country

Louisville's famous Urban Bourbon Trail is a free self-guided walking tour of downtown Louisville that gives you the chance to visit "the world's best Bourbon bars," all of

which must serve at least 50 different kinds of Bourbon. Guided by your free booklet-style passport, available at the Visitors Center on 4th and Jefferson streets or at any of the participating stops, you'll travel through the history of Louisville's bourbon heritage and the world's most celebrated bourbon bars.



Uniquely Southern Cuisine

A city with more than 2,500 restaurants, including numerous James Beard nominated chefs and restau-

rants, Louisville has been called one of the best foodie small towns in America. During your visit, you'll have the opportunity to experience restaurants offering Louisville's unique spin on southern cuisine. Settle in at a craft beer tasting room, take a guided, themed food excursion and enjoy plenty of dishes infused with the city's many bourbon flavors.



LOUIS For More Points of Interest, Things to Do and Places to Dine in Louisville, Visit GoToLouisville.com

Reserve Your Room at the Galt House Hotel! A Legendary Destination Among Hotels in Louisville

The Galt House Hotel will be the host site for the **26th annual National** No-Tillage Conference from January 9-12, 2018.

Located in the heart of downtown Louisville and featuring spectacular views of the Ohio River, the Galt House Hotel is quite simply the best place to find a unique and authentic experience in Louisville. The hotel's friendly and knowledgeable concierge staff is Southern Hospitality at its finest, ready to make your National No-Tillage Conference experience unforgettable.

Deluxe quest rooms are available for \$104 per night in the Rivue Tower or executive suites are available for \$134 per night in the Suite Tower.

You can reserve your rooms at the special National No-Tillage Conference rates by calling (502) 589-5200. Ask for the National No-Tillage Conference rate when making phone reservations. Book your room online by visiting www. NoTillConference.com. Hotel room cut-off is December 17, 2017, or until allocated rooms are sold out.





13 Reasons Why This No-Till Event is the Most Valuable Learning Experience You'll Have in 2018!

- **1 FEATURING** an extremely valuable combination of 13 general session presenters, 24 No-Till Classrooms and 80 "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 2018.
- 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

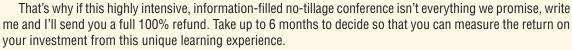
- solving the most critical no-till problems that you face each day.
- **8 PROVIDING** an in-depth, unbiased no-till program offering state-of-the-art ideas to meet your specific needs without pushing specific system ideas, cropping techniques or government agendas.
- 9 STEERING this event are no-tillers 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 2018.
- **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 2018!

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 Louisville!

We Fully Guarantee Your Satisfaction!

I've covered no-till for 46 years and I've picked up hundreds of new no-till techniques, tips and strategies during the first 25 years of the National No-Tillage Conference to share with *No-Till Farmer* readers.





For nearly 50 years, 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 80 No-Till Roundtables and hallway conversations.

This unsurpassed guarantee ought to convince you that we're worthy of your trust and attendance at the 26th annual National No-Tillage Conference coming up this January 9-12, 2018.

See You In Louisville!



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

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.

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 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 year-round reference to the latest innovative products from more than 100 shortline farm machinery manu-

facturers and



suppliers throughout the world.

Bonus Value: \$29.95

Bonus #3

Efficient, Effective Practices for No-Tilling with Nitrogen

The editors of *No-Till Farmer* prepared this 32-page special report delving into the latest research, equipment, products and practices you can consider using on your own farm to ensure every pound of applied nitrogen (N) is working for you.



From seeding cover crops to late-season applications to crop sensors to in-furrow work, the content in this report will help you identify strategies to optimize soil fertility and plant health, so your fields make more yield from N and you improve your bottom line, while eliminating waste and protecting the environment.

Bonus Value: \$15.95

Bonus #4

More Bushels in the Bin: Surefire Strategies for High-Yielding No-Till Corn

Get proven, practical strategies to help your corn reach its highest potential. Featur-

ing advice from contest-winning corn growers, you'll learn how to plant, fertilize and protect your corn better to take your yields — and income — to the next level.

Bonus Value: \$15.95

Bonus #5

Getting a Jump on Tough No-Till Weeds

Take a systems approach to weed management with this 24-page report. Discover

how-to tips and information on killing five of the most infamous weeds you face today, as well as proper tank-mixing strategies and rules to follow using new herbicide formulations like dicamba.

Bonus Value: \$15.95

Bonus #6

26th Annual National No-Tillage Conference Hat

We've offered a stylish hat for every single one of our no-till conferences since the event debuted in 1993.



Our 26th 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

Total FREE "Bonus Package" Value For NNTC Attendees: \$132.70

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 your credit card handy) to register for the

January 9-12, 2018, 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.

26th Annual National No-Tillage Conference

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



SEE INSIDE FOR FULL DETAILS...

Complete No-Till Program . . Pages 2 to 8 24 No-Till Classrooms Pages 3 to 8 80 No-Till Roundtables Pages 5 to 7 Discover Louisville Page 9 Fully Guaranteed Event Page 10 4 Easy Ways to Register Page 11 \$132.70 of *FREE* Bonuses Page 11

*Please attach contact information for any additional attendees.

Get a Really Quick Payback in 2018!

Take home an average of **\$69,934.17** in NEW ideas that you can **put to immediate use** in your no-till system.

—2017 NNTC Attendee Survey

Boost Your No-Till Yields in 2018!

Primary Registrant: Register me at the address above. Name: Farm or Company Name:	
Address:	
City: State:	attendee x \$329 = \$ 329
Zip/Postal Code: Country: Country: Phone:	#2 Additional Attendees from our Farm or Family
Email:	ти по
□ Register me for the Neal Kinsey Workshop (\$75) □ Register me for the Bill Lehmkuhl Workshop (\$75)	
Additional Registrant:	attendee x \$75 = \$
Name: □ Same address as primary registrant.	4 Workshop: No-Till 101: Get Planting Off to a Better Start (Lehmkuhl Tue., January 9, 2:00-4:00 p.m. (Limit 50)
	attendee x \$75 = \$
Farm or Company Name:	#5 Additional Ranguet Tickets v \$40 - \$
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☐ Register me for the Bill Lehmkuhl Workshop (\$75)	Exp date:
*Please attach contact information for any additional attendees.	Name on Credit Card: